

Mt. San Antonio College

legacy of excellence 1946-2011



2011~12 catalog

Acknowledgments Much appreciation to the following individuals

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

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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 2011-12 Catalog does not constitute a contract or terms of a contract between the student and the College.

Mt. San Antonio College

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> (909) 274-7500 TTY# (909) 594-3447 (Hearing Impaired)

www.mtsac.edu

Our 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.

ANTONIO

A Legacy of Excellence

In the spirit of Mt. San Antonio College's 65th anniversary, we celebrate our legacy of excellence with the release of this 2011-12 *College Catalog*. It is a compilation of courses, programs, support services, degree offerings, and transfer information that you will need to chart your course to academic success. All of this represents our unwavering commitment—despite difficult economic times—to provide you the finest education, period!

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 resource guide to explore the vast scope of opportunities, services, and programs that Mt. SAC offers.

You will find a rich array of university transfer, career, and lifelong learning programs that can empower you with the knowledge and skills needed to succeed in a diverse and interconnected world. Be assured that our curriculum is in step with the fast-changing needs of today's dynamic employment sectors.

As we celebrate yet another milestone anniversary, Mt. SAC remains committed to its longstanding mantra: "students first and foremost." Your success is our paramount focus. And we invite you to take advantage of the college's vast array of resources to achieve it.

To the many freshmen who will enter Mt. SAC this fall, and to all current students, we welcome you with open arms and wish you much success as you now become a part of our "Legacy of Excellence."

Dr. William Scroggins President & CEO





Board of Trustees

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2011-12 College Calendar

Fall 2011

July 4	Independence Day Holiday (campus closed)
July 5	International student admission application due for 2011 Fall Semester
July 19	Registration begins for 2011 Fall Credit and Continuing Education classes
August 28	Residency determination date
August 29	Fall Semester begins
September 5	Labor Day (campus closed)
September 9	Last day to change residency for 2011 Fall Semester
September 9	Last day to add a class
September 16	Last day to withdraw without a "W" for 16-week classes
October 7	Last day to petition for Fall Semester graduation
November 7	International student application due for 2012 Winter Intersession
November 11	Veteran's Day (campus closed)
November 18	Registration begins for 2012 Winter Intersession
November 24 - 27	Thanksgiving Recess (campus closed)
December 7	International student application due for 2012 Spring Semester
December 7 - 11, 14-16	"Book Buy Back" at SacBookRac
December 9	Last day to petition for 2012 Winter Intersession graduation
December 12 - 18	Final Exams
December 18	2011 Fall Semester ends
December 19 - January 6	Winter Recess for students

2011-12 College Calendar

Winter 2012

January 1, 2011 January 9 January 16 	New Year's Holiday (campus closed) 2012 Winter Intersession begins Martin Luther King, Jr. Day (campus closed)
February 17	Lincoln's Birthday (campus closed)
February 19	2012 Winter Intersession ends
February 20	President's Day (campus closed)

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February 27	2012 Spring Semester begins
March 30	Cesar Chavez Day of Observance (campus closed)

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2011-12 College Calendar

Spring 2012 (continued)

May 28	Memorial Day (campus closed)
June 11 - 17 June 15 June 17	Final Exams (<i>see</i> schedule in Spring <i>Schedule of Classes</i>) Commencement 2012 Spring Semester ends
Summer 201	2
Summer 201	2012 Summer Intersession begins
	-

COLLEGE DIRECTORY

The main College telephone number is (909) 594-5611.

For direct access to the offices listed below, dial (909) 274 + the 4-digit extension listed below.

Academic Counselor for Student Athletes	Distance Learning		Parking Office	
Academic Senate	*Earth Sciences & Astronomy		Parking Services Cashier	
Accounting & Management	*Electronics & Computer Technology		*Paralegal	
dvising	*English, Literature & Journalism		Payroll	
dministrative Services	 *ESL & Intercultural Programs	4736	Performing Arts Center Box Office	
dmissions & Records	 Event Services		Performing Arts Operations	
Aeronautics & Transportation	 Exercise Science/Wellness Center		Photo I.D.	
Affirmative Action	 Express Stop		*Physical Education Division	
*Agricultural Sciences	 Extended Opportunity Programs & Serv. (EOPS)		*Physical Therapy Aide	
Air Conditioning & Welding	 Facilities Planning & Management		*Physics, Engineering	
*Aircraft Maintenance & Manufacturing	Faculty Association		Planetarium Shows	
Alumni Association	Farm Tours		President & Board of Trustees	
*American Language	Financial Aid		Printing Services	
*Architecture & Design	*Fine Arts		Professional & Organizational Development	
Art Gallery	*Fire Technology		*Psychology, Education	
*Arts Division	Fiscal Services		*Psychiatric Technician	
ASPIRE Program	*Foreign Languages		*Public Services	
Assessment Center	Foundation Office		Purchasing	
Associated Students	Geography & Political Science		Quick Stop	
Associated Students	Grants Office		*Radiologic Technology	
Aurillary Services	Grounds Service Requests		Re-Entry Center	
	*Health Careers Resource Center			
Basic Skills			*Registered Veterinary Technology	
Biological Sciences	Health Center		Registration	
Bookstore (SacBookRac)	Help Desk (IT)		Research & Institutional Effectiveness	
Bridge Program	High School Outreach		*Respiratory Therapy	
Broadcast Services	*History & Art History		Risk Management	
*Business Administration	*Histotechnology		SacBookRac	
*Business Division	Honors Program		Security (Campus)	
Bursar's Office	Horticulture Unit		*Service Learning	
CalWORKs	 *Humanities & Social Sciences Division	4570	Short Stop	
CARE	 Human Resources	4225	*Sign Language	
Campus Café	 Information Technology		Small Business Development Center	(626) 337-210
Campus Security	 Instruction Office		*Sociology, Philosophy	
Career Placement Services	 *Language Learning Center		Special Events	
Center of Excellence	 *Learning Assistance Center		Stadium Ticket Office	
*Chemistry	Learning Lab		Student Center	
*Child Development	Library		Student Life & Student Clubs	
Child Development Center	*Library & Learning Resources Division		Student Services, Dean	
Commercial & Entertainment Arts	Lost & Found (Student Life)		Student Services, V.P. Office	
Common Grounds Café	Maintenance & Operations		*Teacher Prep Institute	
Communication	Marketing & Public Affairs Office		Technical Services	
Continuing Education Division	*Mathematics, Computer Sciences		*Technology & Health Division	
Continuing Education Division			Technology Education Resource Center	
5	Media Services			
Computer Information Systems	*Medical Services		*Theater	
Consumer Science & Design Technologies	*Mental Health Technology		Transfer Center	
Contract Education	Mountie Grill		Tutorial Services	
Counseling	Mountie Stop		Upward Bound	
ountinuing Education	*Music		Veterans' Service Center	
SEA 262	*Natural Sciences Division		Warehouse	
Custodial Services	*Noncredit Programs		Wellness Center	
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Disabled Student Programs & Services (DSP&S)	 Online Learning Support Center		* Instructional n	rograms and departmen

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The College



MT. SAN ANTONIO COLLEGE

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

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

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

Instruction at Mt. SAC is organized under a divisional structure with departments within each division. At present, the College has <u>eight</u> 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, singlecampus 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.



The College

BOARD OF TRUSTEES

President Vice President Clerk Member . Member . Student Trustee	Judy Chen Haggerty, Esq.
Vice President	Rosanne Bader
Clerk	Dr. Manuel Baca
Member	Fred Chyr
Member	Dr. David K. Hall
Student Trustee	Bruno Hernandez
College President & CEO	Dr. William Scroggins

ADMINISTRATION

Administrative Services	Ext. 4230
Vice President, Administrative Services	Michael Gregory
Associate Vice President, Fiscal Services	Linda Baldwir
Director, Accounting Services	Sid Young
Manager, Accounting	Shelly Zaht-Egber
Director, Bookstore and Operations	Suzanne Luetjer
Director, Bursar's Office	Sheree Culros
Manager, Custodial Services	Ken McAlpir
Director, Facilities Planning and Management	Gary Nelleser
Assistant Director, Facilities, Planning and Management	Bill Ashe
Manager, Facilities Support Services	
Project Manager, Facilities	Roger Sneed
Assistant Director, Fiscal Services	Rosa Royce
Director, Grounds and Transportation	Carol Bake
Manager, Payroll	Richard Lee
Director, Public Safety	
Assistant Director, Public Safety	•
Manager, Purchasing	
Director, Safety, Health Benefits, and Risk Management	Karen Saldana
Director, Technical Services	William Eastham
Human Resources	Ext. 4225
Vice President, Human Resources	Annette Loria
Director, Human Resources	Terri Hamptor
Information and Educational Technology	Ext. 4357
Chief Technology Officer	
Director, Enterprise Applications Systems	Vacan
Director, Academic Technology and Infrastructure	Dale Vickers
Assistant Director, Academic Technology and Infrastructure	Shanti Atashpoush
Manager, Data and Network Security	Jeff Holder

President's Office Ext. 4121/4215 Executive Director, Mt. SAC Foundation Richard Morley Instruction Ext. 4200 Vice President, InstructionDr. Virginia Burley Dean, Arts DivisionDr. Susan Long Dean, Business Division Dr. Journana McGowan Associate Dean, Business Division Dean, Humanities and Social Sciences Division James Jenkins Dean, Physical Education Division Joeseph Jennum Interim Associate Dean, Physical Education Debbie Cavion Dean, Technology and Health DivisionDr. Sarah Daum Associate Dean, Technology and Health Division Jemma Blake-Judd Assistant Director, Adult Basic Education Omideh Sloan Director, Community and Career Education Paulo Madrigal Director, ESL and Intercultural ProgramsLiza Becker Director, Grants Adrienne Price Director, HonorsCarolyn Kuykendall Ext. 4505 **Student Services** Dean, Counseling Thomas Mauch Associate Dean, CounselingDr. Dvrell Foster Dean, Student Services Carolyn Keys Dean, Enrollment Management Dr. George Bradshaw Assistant Director, Admissions and Records Patricia Montoya Director, Upward Bound Dr. Juan Carlos Astorga Manager, CalWORKs/CARE Lorraine Williams

ADMINISTRATION

The College

Ext. 4220

Ext. 4570

Ext. 5659

Humanities and Social Sciences Division James Jenkins, Dean

workplace training on a contract basis throughout the district.

INSTRUCTIONAL DIVISIONS

Donna Burns, Dean

Associate Dean, Vacant

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

The Continuing Education Division provides a range of programs, courses, and fee-based offerings

serving noncredit students and community members. Noncredit programs include Adult Basic Education, English as a Second Language, Older Adults, Adults with Disabilities, Short-Term Vocational, and Citizenship. Student assessment, orientation, enrollment, advising, and counseling services are provided. The division also offers a variety of learning support labs such as the Language Learning Center, the Health Careers Resource Center, and the WIN program for student athletes. Fee-based programs include

offerings for career training, personal enrichment, vehicle safety, and youth. The division also provides

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, and the Teacher Preparation Institute. For additional information, contact the division at ext. 4570.

Library and Learning Resources Division

Meghan M. 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 offer courses and provide support services for all students at the College.

The College Library

Library Department offers courses in information resources and research methods as well as introduction to library research.

The Library offers students, faculty, and staff a wide variety of information resources for their research needs. Beyond traditional resources such as books, journalism, newspapers, videos, and career guides, researchers may also search numerous full-text databases and pre-evaluated Internet web sites. The library faculty teach library research techniques to classes by appointment and one-on-one at the reference desk at all the hours the library is open.

Director, Disabled Student Programs and Services (DSP&S)	Grace Hanson
Manager, Deaf and Hard of Hearing Services	Don Potter
Director, Extended Opportunity Programs and Services (EOPS)	Irene Herrera
Director, Financial Aid	Susan Jones
Director, Health Services	Sandra Samples
Director, Student Life	Dr. Maryann Tolano-Leveque

INSTRUCTIONAL DIVISIONS

Arts Division

Dr. Susan Long, Dean

The Arts Division is composed of four educational departments: Fine Arts, Commercial and Entertainment Arts, Music, and Theater. The division sponsors numerous award-winning performance groups, houses an art gallery and includes Studio Arts, Digital Arts, and Radio and Television programs. The division sponsors several student drama and music productions in the Performing Arts Center each year and has performing groups that have established top national and international competition rankings. The Arts Division also oversees vocational degrees and certificates in Animation, Graphic Design, Radio, Television, Photography and Computer Graphics. For information relating to departments, programs, or events, contact the division office at ext. 5200.

Business Division

Ext. 4600

Ext. 5200

Dr. Joumana McGowan, Dean Richard Patterson, Associate Dean

The Business Division's educational programs and services are designed to respond to the changing trends, needs, and job requirements of the community, state, and national economy while ensuring a high quality education. The division offers twenty-three Associate in Science degrees, two Associate in Arts degrees, and over eighty certificates.

The Business Division's educational departments and their program areas are:

- Accounting and Management (Accounting, Business Management, and Business Office Communications)
- Business Administration (Paralegal Studies, Marketing & Sales, Real Estate, Economics, and Business Law)
- Computer Information Systems (Computer Basics, Database Management, Input Processing, CIS Management, Networking, Programming, Computer & Network Security, and Web Development)
- Child Development
- Consumer Science and Design Technologies (Family & Consumer Sciences, Fashion Merchandising & Design, Hospitality and Restaurant Management, Interior Design, and Nutrition & Food)

For more information about our programs and services, contact the division office at (909) 274-4600.

The economic and workforce development grant is for the Center of Excellence. For additional information, contact the Center of Excellence at ext. 6106.

The division also includes the services of the Child Development Center. For additional information, contact the Child Development Center at ext. 4920.

INSTRUCTIONAL DIVISIONS

Library and Learning Resources Division (Cont.)

Ext. 5659

Learning Assistance Center (LAC)

The LAC Department offers courses in pre-collegiate writing and mathematics, as well as both collegiate and degree-appropriate courses in reading, and study techniques. Tutor training courses are offered for prospective tutors.

Non-credit students can get individualized materials and instruction in reading comprehension, vocabulary, spelling, elementary math, algebra review, English grammar, and study techniques (note-taking, test preparation, and test-taking). Additionally, the LAC provides academic support through tutoring, an instructional computer lab, and testing services.

Distance Learning Program

Distance Learning (DL) courses (online and hybrid) are offered each term in various departments. The DL courses have the same course content, academic rigor, and registration process as regular courses. Some faculty may require on-campus meetings. Students are encouraged to check the schedule of classes each term for offerings and to visit *http://www.mtsac.edu/instruction/learning/distlearn/*

Natural Sciences Division

Ext. 4425

Larry L. Redinger, Dean Matthew Judd, 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.

INSTRUCTIONAL DIVISIONS

Physical Education Division

Ext. 4630

Joseph Jennum, Dean/Athletic Director Debbie Cavion, Interim Associate Dean

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. The renowned Dance Program here at Mt. SAC is enhanced by the award-winning faculty and studios/performance venues in the College's Performing Arts Center.

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 20 team 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. The renowned Dance Program at Mt. SAC is enhanced by award-winning faculty and studios/performance venues in the College's Performing Arts Center.

Mt. SAC's five renowned 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.

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 Technology, Electronics Technology, Manufacturing Technology, 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 (EMT and Paramedic), Mental Health, Physician's Assistant Preparatory, Radiologic Technology, Respiratory Therapy, and Registered Nursing. Programs are driven by industry needs, and many are governed by state accrediting boards.

$\mathsf{section}\, two$

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 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 top 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. Students wishing to change their residency must submit a Residency Reclassification form to the Admissions & Records Office prior to the deadline listed in the Schedule of Classes.

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 "nonresident".

 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. Nonresident: A "nonresident" student is one who has not resided in the State for more than one year prior to the residency determination date and who has not established legal residence or who is not eligible to establish California residency for tuition purposes.

Criteria for Determination of Legal Residence

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

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

Burden of Proof

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

* 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.

Residence Classification Appeal

Any student, following a final decision on residency classification by the Admissions and Records Office, may make a 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/guardian;
- 3. 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;
- 5. 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

http://mtsac.edu/students/counseling/special_admit.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. For more information, contact the Continuing Education Division at (909) 274-4220.

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.

Matriculation

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. 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. Students will need to request an evaluation upon submission of their graduation petition. 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 prior to their registration appointment.

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.

Acceptance of International Coursework from Accredited Colleges and Universities outside the United States

Mt. San Antonio College may accept for equivalence, general education and courses that meet other local graduation requirements, that have been successfully completed at institutions of higher education outside the United States from international college and universities where the primary language of instruction is other than English, provided substantial documentation exists for the equivalences to be determined. The exceptions to this are courses to meet Area A: Communications in the English language and the Reading Competency requirement. These requirements must be fulfilled at a regionally accredited institution of higher education within the United States.

Students completing coursework at international higher education institutions in which English was the language of instruction may submit a petition for special review to the Admission and Records office to determine the equivalence of coursework in Area A and the Reading Competency. Mathematics course credit will only be granted for coursework completed at the level of Intermediate Algebra or higher.

Official Transcripts must be accompanied by evaluation documents provided an approved credential evaluation agency.

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
- Qualifying score from one of the following College approved tests:

1) TOEFL (minimum score of 133 on the computer-based test, or 450 on the paper-based test, or a score of 45 on the Internet-based test). Information regarding TOEFL may be obtained at **www.toefl.org**. If you are mailing your score directly, our institution code is "4494".

2) IELTS (overall band score of 4.5 or higher). Information regarding IELTS may be obtained at *www.ielts.org*.

3) Mt. SAC's AWE (Assessment of Written English) - Placement in AMLA 41W or higher. Information regarding the AWE may be obtained at **www.mtsac.edu/students/assessment**.

Matriculation

- 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 2011-12 school year are as follows:

- Summer 2011 First Monday of April
- Fall 2011 First Monday of June
- Winter 2012 First Monday of November
- Spring 2012 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, IELTS scores, admissions application (both college and International Student Application), and all supporting materials must be received on or before the term deadlines listed above. Students will be required to take the Assessment of Written English (AWE) when they arrive at Mt. San Antonio College. Applications received after the deadline will be considered for the following semester. The application fee must accompany the admission application.

Registration

Registration for classes is done online via the web at *http://my.mtsac.edu*. 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 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.

Enrollment Fees and Expenses

Students are charged an enrollment fee, a Health Services Fee, and for some classes Materials Fees for each term at Mt. San Antonio College. In addition to these fees, non-resident students also pay tuition. 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 \$600 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.

Student Representation Fee

The Student Representation Fee is a mandatory fee that is collected during fall and spring registration for the purpose of providing Mt. SAC students the means to state their positions and viewpoints before city, county, district, and state government agencies. A student may choose <u>not</u> to pay the Student Representation Fee for political, religious, financial, or moral reasons. If a student chooses to opt-out of paying the fee for the stated reasons, then the student must: 1) visit the Student Life Office in Building 9C or http://as.mtsac.edu to get the opt-out form; 2) complete the form and; 3) return it to the Bursar's Office <u>prior</u> to paying the college fees.

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/Receipt. 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 to the College (e.g., returned check, unpaid enrollment fees, unpaid loan, equipment breakage, unpaid library fine, etc.). The hold 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 holds with the Student Life Office will not be allowed to transact College business until the hold is satisfied.

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. Students will be given a topic to write on and the writing sample will be read by at least two faculty members. Based on the faculty evaluation of the student's writing skills, they 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.

Chemistry Placement

The College utilizes the California Chemistry Diagnostic Test to determine student readiness for Chemistry 50. Students who pass the chemistry placement test will not be required to take chemistry prior to enrolling in Chemistry 50.

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, students 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;
- 2. select and enroll in a general interest class which does not have prerequisites;
- 3. 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.

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 Center 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 a counselor. Career counseling services are available to students at no cost, to assist students in making the most appropriate choices about their future.

EXEMPTION FROM ORIENTATION AND COUNSELING/ADVISEMENT

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

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

PRE-COLLEGIATE BASIC SKILLS

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

PREREQUISITES, COREQUISITES, AND ADVISORIES

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

Prerequisite

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

Corequisite

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

Advisory

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

CHALLENGING PREREQUISITES

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.

${\scriptstyle \mathsf{section}} three$

Academic Policies and Requirements



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 may 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 officially drop a class 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 or at an earlier date for intersession or short-term classes.

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.

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 the college, or are dropped by the professor after the course has met for 30 percent of the its total minutes (end of the fourth week for sixteen-week courses) 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 <u>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.</u>

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 highest 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.

Petitions for Exceptional Action

Student *Petitions for Exceptional Action* forms are available from the Counseling Office, Student Life, 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.

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

- A student may use that initial catalog year or any subsequent catalog until the student's petition for graduation, if the student has remained in continuous attendance.
- Continuous attendance is enrollment and attendance in a class (past the census date) in one of the immediate prior two semesters.
- In order to maintain catalog rights at Mt. SAC, based on the initial semester of enrollment, a student may:
 - 1. Attend another regionally accredited post-secondary institution.
 - 2. Maintain "continuous attendance" at a regionally accredited post-secondary institution while away from Mt.SAC.
 - 3. Not be absent from Mt. SAC for four or more regular terms (two years).

CREDITS AND GRADES

Definition of a Unit of Credit

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

Classification of Students

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

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

Grading System

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

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

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"'s in a class. After earning two "W"'s in a class, students wanting to repeat a class 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. 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 term. 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.

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. <u>The Pass/No Pass</u> grading option is no longer available for General Education courses.

In courses offering the grading option, students are automatically registered on a letter grade basis at the time of registration. <u>If a</u> change is desired, the student can make the changes on their student portal or in person with a picture ID at the Admissions and Records <u>Office in the Student Services Center</u>. The grading option may not be changed at a later date. <u>Students enrolled in short-term courses of less</u> 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 or President's List, but such courses are considered in progress 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 55050 of Title 5 of the California Administrative Code, students at Mt. San Antonio College may apply for Credit by Examination and such unit credit may be granted subject to the following rules and regulations:

Rules and Regulations

- 1. Credit by Examination will be granted only for those courses which have been so designated by the departments.
- 2. Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."

	COLLEGE CREDIT FOR ADVA	ANCED PLACE	MENT (AP) TESTS	
Exam	CSU GE Breadth 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) ⁸	N/A	3 semester	N/A	8 quarter / 5.3 semester
Bioloav	4 semester (Area B2 and B3)	6 semester	4 semester (Area 5B with lab)	8 quarter / 5.3 semester
Calculus AB ^{1,8,9}	3 semester (Area B4)	3 semester	3 semester (Area 2A)	4 quarter / 2.7 semester
Calculus BC ^{1,8,9}	3 semester (Area B4)	6 semester	3 semester (Area 2A)	8 quarter / 5.3 semester
Chemistry ²	4 semester (Area B1 and B3)	6 semester	4 semester (Area 5A with lab)	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 ^{1,8}	N/A	3 semester	N/A	2 quarter / 1.3 semester
Computer Science AB ^{1,8}	N/A	6 semester	N/A	4 quarter / 2.7 semester
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 ⁸	3 semester (Area A2)	6 semester	3 semester (Area 1A)	8 quarter / 5.3 semester
English — Literature & Composition ⁸	6 semester (Area A2 and C2)	6 semester	3 semester (Area 1A or 3B)	8 quarter / 5.3 semester
Environmental Science ³	4 semester (Area B1 and B3)	4 semester	3 semester (Area 5A with lab)	4 quarter / 2.7 semester
French Language ⁴	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
French Literature ⁵	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
German Language ⁴	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
History — European	3 semester (Area C2 or D6)	6 semester	3 semester (Area 3B or 4F)	8 quarter / 5.3 semester
History — U.S.	3 semester (Area C2 or D6 and US 1)	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)	8 quarter / 5.3 semester
Human Geography	3 semester (Area D5)	3 semester	3 semester (Area 4E)	4 quarter / 2.7 semester
Italian Language & Culture ⁶	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 ⁵	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	4 quarter / 2.7 semester
Music Theory ^{5, 8, 10}	3 semester (Area C1)	6 semester	N/A	8 quarter / 5.3 semester
Physics B ^{7,8}	4 semester (Area B1 and B3)	6 semester	4 semester (Area 5A with lab)	8 quarter / 5.3 semester
Physics C — Mechanics 7,8	4 semester (Area B1 and B3)	4 semester	3 semester (Area 5A with lab)	4 quarter / 2.7 semester
Physics C — Magnetism 7,8	4 semester (Area B1 and B3)	4 semester	3 semester (Area 5A with lab)	4 quarter / 2.7 semester
Psychology	3 semester (Area D9)	3 semester	3 semester (Area 4I)	4 quarter / 2.7 semester
Spanish Language ⁴	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Spanish Literature ⁴	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

1) If a student passes more than one AP exam in calculus or computer science, only one examination may be applied to the baccalaureate.

2) Students who pass AP Chemistry earn 6 units of credit. Tests prior to Fall 2009 may apply 4 units to area B1+B3 of GE Breadth. Tests after Fall of 2009 may apply 6 units to area B1+B3.

3) Students who pass AP Environmental Science earn 4 units of credit. Tests prior to Fall 2009 may apply to either B1+B3 or B2+B3 of GE Breadth. Fall of 09 or later, those credits may only apply to B1+B3.

4) Students who pass AP French Language, German Language, Spanish Language, and Spanish Literature earn 6 units of credit. Tests prior to Fall 2009 may apply 6 units to area (2 of GE Breadth. Tests after Fall 2009 may apply 3 units to area (2

5) Students seeking certification in GE Breadth prior to transfer must have passed the test before Fall 2009.

6) Students seeking certification in GE Breadth prior to transfer must have passed the test before Fall 2010.

7) If a student passes more than one AP exam¹ in physics, only six units of credit may be applied to the baccalaureate, and only four units of credit may be applied to a certification in GE Breadth. Students who pass AP Physics B earn 6 units of credit. Tests prior to Fall 2009 may apply 6 units to area B1+B3 of GE Breadth. Tests after Fall of 2009 may apply 4 units to area B1+B3.

- 8) At all UC Campuses, a maximum of 8 quarter units are allowed in each of the following areas: Art (Studio), English, Mathematics, Music and Physics. A maximum of 4 quarter units are allowed in Computer Science.
- 9) Students who take the Calculus BC examination and earn a subscore of 3 or higher on the Calculus AB portion will receive UC credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination

10) The UC will grant credit for the full Music Theory exam. Students who earn only a subscore will not receive exam credit.

INTERNATIONAL BACCALAUREATE CREDIT FOR GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE IB Examination Number of Units Awarded to Mt. SAC General Education Biology 5 semester units toward Area B2

	J Semester units toward Area DZ
Business Management	NA
Chemistry	5 semester units toward Area B1
Classical Languages	5 semester units toward Area C2
Computer Science	NA
Dance	5 semester units toward Area C1
Design Technology	NA
Economics	5 semester units toward Area D2
Film	5 semester units toward Area C2
Geography	5 semester units toward Area D2
History	5 semester units toward Area C2 or D2
History of Islamic World	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
Mathematics	5 semester units toward Math Proficiency
Music	5 semester units toward Area C1
Philosophy	5 semester units toward Area C2
Social and Cultural Anthropology	5 semester units toward Area D2
Theatre Arts	5 semester units toward Area C1
Visual Arts	5 semester units toward Area C1

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).
- c. The student has at least a 2.0 grade point average. This includes transfer/new students.
- 4. The student may obtain the petition for Credit by Examination from the Division Office.
- 5. The department will establish written guidelines by which the eligibility of a student to take such an examination is determined.
- 6. The Department will assign a grade depending on the results of the examination and submit the form "Petition for Credit by Examination" to Admissions and Records.
- 7. The student may not use Credit by Examination to satisfy the residency requirement for the degree.

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

Advanced Placement Examinations in CSU General Education – Breadth Certification

Advanced Placement examinations may be incorporated into certification of completion of CSU General Education—Breadth requirements by any participating institution. Students must have scored 3, 4, or 5 on an Advanced Placement examination listed on page 13 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 postsecondary 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.

Academic Policies and Requirements

- 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 Current License Holders

Mt. San Antonio College may grant units of credit toward an associate's degree to current license holders in the following areas: Emergency Medical Technology (Paramedics), Psychiatric Technology, and Radiologic Technology. The total number of units granted will be equal to the current total unit requirement for the equivalent program certificate. License holders must meet the college's residency requirements and complete an application to the college before the request for extra-institutional learning credits may be made. The application date will determine the catalog year.

The Department Chair from the appropriate program will validate the license and its currency. Admissions and Records will certify that the requirements have been met, grant the appropriate number of units, and apply extra-institutional learning credit toward the degree.

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.

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 at Mt. San Antonio College.

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 at Mt. San Antonio College.

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 Honors Program Director at Ext. 4528.

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

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

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

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

Phi Theta Kappa

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

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

For further information and review of academic eligibility, students should consult a Counselor or a Phi Theta Kappa advisor. Currently, some 70 U.S. colleges and universities offer scholarships to members. There are several advantages which accompany this honor, including recognition at graduation. Applications are available at the Honors Program office in 26A-1680.

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 (GPA) 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","1" 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 summer session, while on probation.

Clearing Probation

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

Probation and Dismissal Status

- 1. Probation
 - a. Academic Probation 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
 - b. Progress Probation occurs at the end of that first semester in which the student has attempted 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.
- 2. Continued Probation
 - a. Continued Academic Probation occurs when the student in their second consecutive semester continues to have a cumulative grade point average below 2.0, or
 - b. Continued Progress Probation occurs when the student in their second consecutive semester 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 shall 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 by the stated deadline prior to the beginning of the following semester. 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. Requests must be made NO LATER THAN TWO WEEKS BEFORE the beginning of the semester. Requests for reinstatement will not be allowed thereafter. If approved, 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.

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. 2. 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).

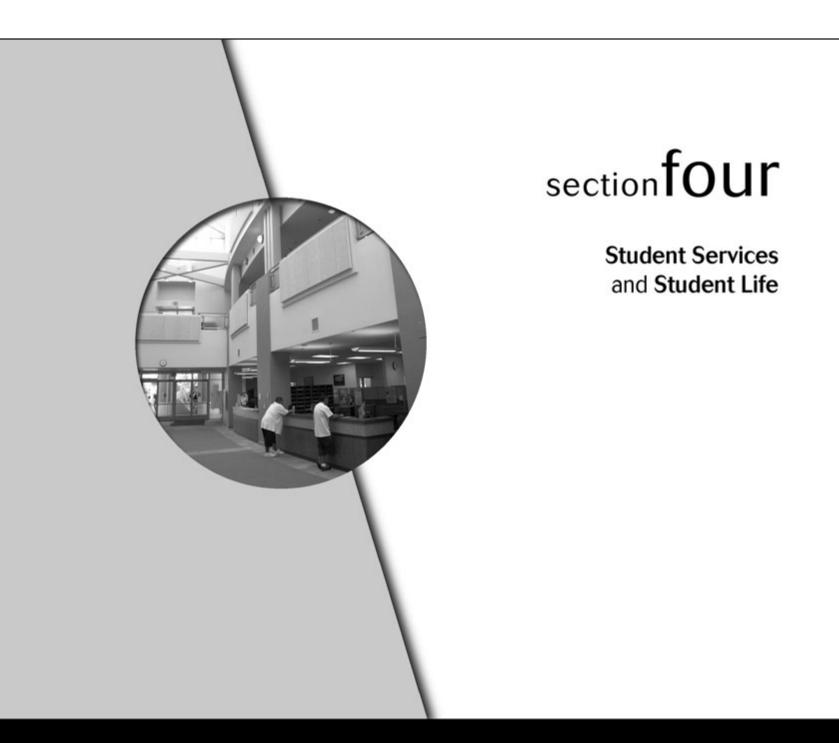
Academic Renewal

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

- A. A maximum of twenty-four units may be alleviated.
- B. Since completion of the work to be disregarded, the student's cumulative grade point average for all units completed at the time of adjustment must be at least 3.0 for 18 semester units, 2.5 for 24 semester units, or 2.0 for 30 units. The cumulative grade point average may include course- work completed at Mt. San Antonio College and/or other accredited colleges or universities. Courses used to qualify for Academic Renewal which were completed at another college or university must be verified by official college transcripts.
- C. A time period of at least two years must have elapsed since the end of the term of substandard work to be disregarded.
- D. Academic renewal will apply only to substandard grades: D, F, and NP.
- 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 should consult with a counselor to file a 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. Unofficial/student copies of transcripts may be obtained at *http://my.mtsac.edu.*



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 other colleges must be submitted for prerequisite eligibility checks.
- 2. 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.
- 4. The Admissions and Records Office also provides computers located in the Student Services Building. These computers provide access to the student portal where students can print their unofficial transcripts, final grades, and copies of the Permit to Register. All services are also available at *my.mtsac.edu*. To use this service, students must have their Mt. SAC Student username.

The ASPIRE Program, Ext. 6396

The ASPIRE Program is an academic student success program designed to enhance success among African-Americans and other students enrolled at Mt. San Antonio College. The program strives to achieve equity among African-American and other students in academic success, access, retention, degree completion, and transfer.

The program aims to: develop a sense of community among African-American students, other students, faculty, staff and administrators; demonstrate culturally relevant connections between African-American students and the college; assist students in achieving academic success through progress monitoring, study groups, tutoring, counseling and advisement; and promote awareness of student services, and leadership opportunities. The ASPIRE Learning Community classes

provides a combination of English, reading and/or counseling courses for students seeking a unique learning experience and provides a strong sense of community.

Assessment Center Student Services Center, Ext. 4265

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

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

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

The Bridge Program, Ext. 5392

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

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

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

As part of the Bridge Program, students can choose to be part of the Summer Bridge, English Bridge, Math Bridge and Reading 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. Student fees may be paid via the web at my.mtsac.edu or in person at the Bursar's Office, Building 9A. 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 get from Mt. SAC to the next step in their educational journey whether that is a great career or a great four-year university. We provide a variety of services, activities, events and resources to help students transfer to universities, solidify their career goals, sharpen their job acquisition skills, and acquire partand full-time employment.

Career Services include:

- Job and internship referrals
- Career fairs
- Career acquisition skills workshops
- Mock interview sessions
- 1-on-1 assistance with resume preparation, interviewing techniques, and general job search

Transfer Services include:

- Career and college guidebooks and university catalogs library
- Workshops on transfer topics
- University representative visits and appointments
- College fairs
- University tours
- Walk-in transfer advising

• Computers for career and transfer research, applications and more! 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) 274-4380.

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

The DSP&S office provides services to students who have professionally documented disabilities or medical conditions, and need special services to successfully attend classes at Mt. SAC. Students who suspect they might have a disability are welcome to apply for services and an eligibility determination will be made.

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 student must demonstrate the ability to benefit from higher education; and self-management skills (mobility, eating and using restrooms without assistance) must be adequate, unless a personal care attendant is utilized. The College does not provide personal care attendants.

Participation in DSP&S and all student disability-related information is confidential. Services offered are based on disability-related needs. Some of the services DSP&S offers are:

- Access to a computer lab with adaptive hardware and software
- Sign language interpreters
- Notetakers in the classroom
- Tram service on campus
- Priority registration
- Classroom testing accommodations
- Equipment loan
- Specialized counseling and advising
- Academic and career strategies classes
- Print material in alternate formats (i.e. Braille, e-text)

If students have a doctor's verification that requires them to park in zones designated as "handicapped parking," they are required to apply for a state "Disabled Person" permit and placard from the Department of Motor Vehicles, if they don't already have one. If students have a current "Disabled Person" permit and placard or a "DP" license plate from the State of California Department of Motor Vehicles, they are not required to purchase a student parking permit. They are allowed to park in any parking space designated as "handicapped parking," any metered space (at no cost), or any time limited space (without having to observe the time limit specified). Students must ensure that the placard or license plate is displayed properly.

DSP&S highly recommends that students visit our Department to determine if there are services that may be of assistance to them while attending Mt. San Antonio College. 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. 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*
- *Based upon adequate funding

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

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

CARE (*Cooperative Agencies Resources for Education*) is a support program for EOPS students who are single head of household parents receiving TANF benefits — 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
- 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.

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. 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

Financial Aid

Student Services Center, Ext. 4450

Financial aid is available for students to assist with the costs associated with attending 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. Most financial aid programs were 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 financial aid programs offered.

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.gov*. For any questions or further information, contact the Financial Aid Office, **ext. 4450**.

STUDENT SERVICES AND STUDENT LIFE 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*) or other types of documents needed to verify or resolve conflicting data.

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. 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 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:

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

The California Community College Board of Governors Fee Waiver program is available to qualified California residents. Only the enrollment fee is waived, and the student is responsible for paying the additional fees assessed. 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.

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.

Re-Entry Services Student Services Center, Ext. 4392

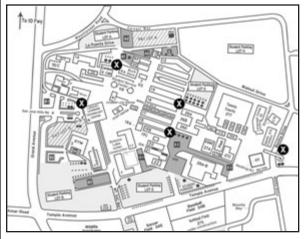
(See Extended Opportunity Programs and Services - EOPS)

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 Health Services Building 67B, Ext. 4400

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

Veterans Services Center Student Services Center, Ext. 4520

The Veterans Services Center, located on the upper level of the Student Services Center, provides 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 all applicable regulations that pertain 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. All transcripts must be evaluated prior to the start of the students third semester, per the Veterans Administration. Also, a complete and signed educational plan must be submitted to the Veterans Service Center in order to receive benefits. Students should visit the Counseling Center for assistance in completing their educational plan. For step-by-step instructions in claiming and utilizing educational benefits at Mt. SAC, Veterans and eligible dependents should download the "Veterans Packet" and all required forms at www.mtsac.edu/students/veterans/.

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 <u>must be reported at once</u>.

The College maintains the Veterans Services 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 Veterans Services Center.

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 for 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 postings, 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 an 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 (A.S.) 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 eight 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 also opportunities for students to 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 A.S. sponsored events and initiatives which support student clubs, programs, projects, and services throughout the year. The SacBookRac sells A.S. discount amusement park and movie tickets.

A.S. Student Activities Fee

The Student Activities Fee is an \$11 fee that is collected every Fall and Spring Semester to provide you with various programs and services on campus. Including book grants, scholarships, cultural programs, speakers, social Activities, and discounted amusement park and movie tickets. This fee is optional and refunds will NOT be issues after the second weeks of the semester. Waiving this fee will exclude you from taking advantage of the benefits listed above. Applications for waivers are available on your Student Portal under Financial Services or in the Student Life Office (Bldg. 9C) for the first two weeks of the semester.

Campus Clubs and Organizations Building 9C, Ext. 4525

There are many opportunities for students to join a variety of more than 50 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) consists 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.

$\mathsf{section}\, five$

Instruction and Learning Resources



Instruction and Learning Resources

INSTRUCTION

Distance Learning Program

What is Distance Learning?

It means taking classes that are conducted partially or entirely offcampus, "at a distance." Students and professors communicate with each other using a variety of technologies.

Distance Learning (DL) courses have the same content and academic rigor as regular courses; the only difference is the delivery method. Students should expect to spend as much time, sometimes more depending on the subject matter, reading, writing, and studying for DL courses as they would in regular courses.

In addition, students who manage their time well, log into DL courses regularly, and submit completed work on time, and meet courses expectation would do well in any course, but especially in DL courses. Communicating with the professor in a timely manner when there are questions or problems is also critical to student success.

Online Classes

Classes are delivered via the Internet, and students must attend a mandatory on-campus orientation meeting typically during the first week of classes. Students who cannot attend this meeting must contact their professors before the starting classes each term.

Hybrid Classes

These classes have both on-campus class meetings and online class hours off-campus. The number of on-campus meetings is determined by the professor.

For further information about the Distance Learning Program, contact the Dean, Library & Learning Resources at (909) 594-5611, Ext. 5658.

Work Experience Education

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

Student Qualifications

Students participating in Work Experience must:

- 1. Have the approval of the assigned work-experience Instructor/Coordinator.
- 2. Have an occupational or educational goal to which, in the opinion of the Instructor/Coordinator, the work-experience chosen will contribute.

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

Credits

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

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

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

- Unless otherwise determined, develop measurable learning objectives approved by the Instructor/ Coordinator and work-site supervisor.
- 2. If under the age of 18, obtain the written permission of their parents.
- 3. Faithfully discharge the duties of the on-the-job assignment.
- 4. Notify the Instructor/Coordinator of any work-site problems or change in status of duties.
- 5. Try at all times to represent themselves and the College positively while at the work site.
- 6. If, prior to enrolling in work-experience education, the student is already employed full time by the work site where the work experience will take place, the student must write a report concerning a learning objective that extended beyond the duties of the regular job.

The Writing Center, Building 26B, Room 1561A

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.

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 (LAC) helps students succeed in college. The LAC offers instruction to review pre-collegiate skills in math, reading, and writing. Courses in study techniques are also available. Tutorial Services in the Learning Assistance Center provides free tutoring to all Mt. San Antonio College students on a drop-in basis, in study groups, and by appointment. Tutors assist students with their course work in most subject areas and with their study skills. The Learning Lab computers and audio-visual materials are available to all students in the community. Students can use the Learning Lab for research, word processing, multimedia assignments, online course work, and to supplement what they are learning in the classroom.

Bailey Smith, Director

Learning Assistance Center Ext. 5669

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 the thousands of books already in circulation, the Library is in the process of making hundreds of closed-captioned DVDs available for circulation as well, to allow students easier access to the Library's media collection. Beyond traditional resources such as books, journals, newspapers, videos, career guides, and college catalogs, researchers may also search numerous full-text article databases and access to nearly 25,000 full-text books. 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. 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 core art foundations to provide students with the skills and design concepts utilized in the visual communication industries.

<u>Job Market</u>: Advertising Design & Illustration focuses on the visual communication and design skills that are employed in graphic design, illustration, animation, multimedia and entertainment arts industries.

Aesthetics for Technology

Certificate

Certificate

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

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

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

A.S. Degree & Certificates

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

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

Web Page Design

<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.

Instruction and Learning Resources COMMERCIAL AND ENTERTAINMENT ARTS DEPARTMENT (CONT.) **COMPUTER INFORMATION SYSTEMS DEPARTMENT (CONT.)** Computer Graphic Design/Photography A.S. Degree & Certificate Mt. SAC's Regional Information Systems Security Center (RISSC) has developed these new computer security courses to assist students with job-related and personal computer security demands: Prime Focus: 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, CISS 11 – Practical Computer Security and provides technical training in computer generated image production, manipulation, formatting and CISS 13 – Principles of Information Systems Security layout. The focus is on development, refinement and enhancement of visual design and technical skills. CISS 15 – Operating Systems Security CISS 21 – Networking Vulnerabilities Job Market: Free-Lance or Corporate Graphic Design; Marketing Photography; Advertising Design; CISS 23 – Network Analysis, Intrusion Detection/Prevention Systems Photojournalism; Commercial or Industrial Photography; Broadcast, Entertainment or Software Graphic CISS 25 – Network Security and Firewalls Design. (See Sections 7 and 8) CISS 27 – Defending Computer Systems Hands-On Photography A.S. Degree & Certificates CISS 29 – CNASM Service Learning These above security courses meet the Committee on National Security Systems (CNSS) National Training Prime Focus: 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 Standards for Information Systems Security Professionals, NSTISSI No. 4011. and a wide range of technical specialist in related disciplines. The program focuses on development, Job Market: Applications Developer/Programmer, Computer Consultant, Computer Marketing/Sales Rep, refinement and enhancement of visual imaging. Computer Network Technician, Network Specialist, Help Desk Support Person, Web Page Designer, Webmaster, Information Systems Specialist, Network Administrator, Microcomputer Trainer, Office Job Market: Freelance or Corporate Photographer, Studio or Location Photographer, Art/Gallery Photographer or Archivist, Photographic Developing/Printing Technician, Digital Photo Assistant, and Systems Manager, On-line Publisher, Programmer, Software Engineer, Software Testing/Quality Assurance Specialist, Tech Support/Customer Service Support. (See Sections 7 and 8) Digital Editing Technician (See Sections 7 and 8) **ELECTRONICS & COMPUTER TECHNOLOGY DEPARTMENT COMPUTER PROGRAMMING**, **COMPUTER SECURITY, AND COMPUTER SERVICING Electronics and Computer Engineering Technology** A.S. Degree & Certificate Mt. SAC offers many courses, certificates, and majors in the areas of computer programming, security, and **Prime Focus:** The Electronics Technology Programs prepare the student for a career as an electronic servicing. Each of these has a special emphasis. The brief descriptions that follow are intended to help technician in manufacturing and service-based electronic and computer companies. Several computerstudents select the correct computer specialization for their interests. Students planning to transfer should based courses are included in the program curricula. 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

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, relational database design in Microsoft Access, SQL Server, MySQL and Oracle. Other course offerings include systems analysis and design, telecommunications and networking, Windows, Mac OS, and Linux operating systems, information systems security, client/server side web programming and software development courses in: Visual Basic, Java, PHP, JavaScript, C++ and C#.

<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

<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*)

Transfer

section SiX

Campus Facilities



CAMPUS FACILITIES

Art Gallery Building 1B, Ext. 4328

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

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

For information on Gallery Exhibition dates and times, contact the Art Gallery office at (909) 274-4328

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.

Child Development Center and Laboratory School Building 9E, Ext. 4920

Admission Policy

Early care and education services for children from 3 months 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.

State Preschool Program

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

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.

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, metabolic testing, athletic performance testing, individual health/fitness programming and injury prevention/ rehabilitation. Activities are offered for all age groups.

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

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, stateof-the-art instructional facility to prepare Mt. San Antonio College students for careers in the performing arts.

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

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

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

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

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

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

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

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

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

Planetarium, Ext. 4425

The planetarium offers instructional support for college classes, as well as a wide variety of public programs on a regular basis. For more information, please contact the Natural Science Division Office at Ext. 4425.

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 Seven

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

Accounting	Children's Program Certificate:
Accounting – Computerized	General – Level III
Accounting – Financial Planning	Children's Programs Certificate:
Accounting – Managerial	Small Business Management
Administrative Assistant Level II	Children's Program Certificate: Teaching
Administrative Assistant Level III	Computer and Networking
Air Conditioning and Refrigeration	Technology Level I
Aircraft Powerplant Maintenance	Computer and Networking
Technology – Day	Technology Level II
Aircraft Powerplant Maintenance	Computer Graphics
Technology – Evening	Design/Photography41
Airframe Maintenance Technology – Day	Computer Systems Technology
Airframe Maintenance Technology – Evening 34	Construction Inspection
Alcohol/Drug Counseling	Consumer Services
Animation – 2-D Multimedia	Correctional Sciences
Animation – 3-D and CG Gaming	Digital Photographic Technician
Animation – Traditional 35	Electronic Systems Technology – Level II
Architectural Technology – Level I	Electronics and Computer
Architectural Technology — Technology	Engineering Technology42
Concentration Level II	Electronics Communications
Architectural Technology — Technology	Electronics Technology43
Concentration Level III	Electronics: Industrial Systems 43
Architectural Technology — Design	Emergency Medical
Concentration Level II	Technician — Paramedic (EMT-P)
Architectural Technology — Design	Engineering Design Technology Level I
Concentration Level III	Engineering Design Technology Level II
Building Automation 36	Engineering Design Technology Level III
Business: Human Resource	Escrow Management 44
Management – Level II	Family Child Care45
Business: Human Resource	Fashion Design Level I45
Management – Level III 37	Fashion Design Level II
Business: International – Level II	Fashion Merchandising – Level I
Business: International – Level III	Fashion Merchandising – Level II
Business: Management – Level II	Fire Technology
Business: Management – Level III	Horse Ranch Management
Business: Retail Management – Level II	Hospitality: Catering
Business: Retail Management – Level III	Hospitality: Hospitality
Business: Small Busines	Management – Level II
Management – Level II	Hospitality: Restaurant
Business: Small Business	Management – Level II
Management – Level III	Infant/Toddler Development
Children's Program Certificate: Administration 39 Children's Program Certificate:	Interior Design Level I – Merchandising 47 Interior Design Level II – Design 47
General – Level II	Interior Design Level II – Design
uchelal – Level II	Level III – Professional Designation
	Level III — FIUIESSIUIIAI DESIGIIALIUII

CERTIFICATES OF ACHIEVEMENT (continued)

SKILLS CERTIFICATES				
Accounting – Bookkeeping54Accounting – Payroll54Administrative Assistant Level I54Athletic Trainer Aide I55Business: Human ResourceManagement – Level IManagement – Level I55Business: International – Level I55Business: Retail Management – Level I55Business: Retail Management – Level I55Business: Small BusinessManagement – Level IManagement – Level I55Children's ProgramCertificate: General – Level ICertificate: General – Level I55CIS Professional Certificate55in C# Programming56CIS Professional Certificate56CIS Professional Certificate56CIS Professional Certificate57CIS Professional Certificate56CIS Professional Certificate57CIS Professional Certificate57CIS Professional Certificate in Database56Management – Microcomputers56CIS Professional Certificate57CIS Professional Certificate in Networking57CIS Professional Certificate in Networking57CIS Professional Certificate in Oracle57CIS Professional Certificate in Oracle57CIS Professional Certificate in SQL56CIS Professional Certificate in SQL56CIS Professional Certificate57CIS Professional Certificate57CIS Professional Certificate57CIS Professional Certificate57<	ETIFICATES Educational Paraprofessional – Level I 58 Electronic Assembly and Fabrication 58 Electronic Systems Technology – Level I 58 Emergency Medical Technician – Level I 58 Fashion Design – Computer Aided 59 Fitness Specialist/Personal Trainer 59 Gallery Design/Operation and Art Profession 59 Hospitality: Food Services 59 Hospitality: Hospitality Management – Level I 59 Hospitality: Restaurant Management – Level I 59 Information and Operating Systems Security 60 Introduction to Computer Information Technology 60 LVN 30 Unit Option – Career Mobility Track 60 Machine Operator 61 1 Nutrition Program Assistant – Level I 61 Nutrition Program Assistant – Level II: 61 Nutrition Program Assistant – Level II: 61 Veight Management Program Emphasis 61 Pilates Professional Teacher Training Phase I 61 Pilates Professional Teacher Training Phase I 62 Mat and Reformer 62 Radio Broadcasting			
CIS Professional Certificate in Windows Operating				
Culinary Arts – Level I 58 Dance Teacher 58 Data Entry 58				

Accounting	
Accounting and	Management De

epartment Certificate T0502

The Accounting Certificate incorporates various accounting courses that prepare the student for entrylevel 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.

Completion of the Accounting: Financial Planning coursework (21 Units) or Accounting: Managerial coursework (19 Units) as follows:

managena	coursenon (15 onics) as renous		
BUSA 7	Principles of Accounting	5.0	CSU,UC
	- Financial		
BUSA 8	Principles of Accounting	5.0	CSU,UC
	- Managerial		
BUSA 21	Cost Accounting	4.0	
	<u>or</u>		
BUSA 58	Federal Income Tax Law	3.0	
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	
BUSO 25	Business Communications	3.0	CSU
Plus the fo	llowing courses:		
BUSA 21	Cost Accounting, or	4.0	
BUSA 58	Federal Income Tax Law	3.0	
BUSA 52	Intermediate Accounting	3.0	
BUSA 70	Payroll and Tax Accounting	3.0	
BUSM 20	Principles of Business	3.0	CSU,UC
		30.0	- 32.0
Option BUSA 21 or BUSA 58: Take whichever course you			
	eviously 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 Required courses:

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

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

neguneato	<i>ai ses.</i>		
BUSA 7	Principles of Accounting	5.0	CSU,UC
	- Financial		
BUSA 8	Principles of Accounting	5.0	CSU,UC
	- Managerial		
BUSA 58	Federal Income Tax Law	3.0	
BUSA 71	Financial Planning	3.0	
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	
BUSO 25	Business Communications	3.0	CSU
	Total Units	21.0	
	BUSA 7 BUSA 8 BUSA 58 BUSA 71 BUSA 75 BUSA 81 BUSA 76 BUSA 81	 Financial BUSA 8 Principles of Accounting Managerial BUSA 58 Federal Income Tax Law BUSA 71 Financial Planning BUSA 75 Using Microcomputers in Financial Accounting Or BUSA 81 Work Experience in Accounting Or BUSA 76 Using Microcomputers in Managerial Accounting Or BUSA 76 Using Microcomputers Managerial Accounting Or BUSA 81 Work Experience in Accounting Or BUSA 81 Work Experience in Accounting	BUSA 7 Principles of Accounting 5.0 - Financial Financial 5.0 BUSA 8 Principles of Accounting 5.0 - Managerial - 3.0 BUSA 71 Financial Planning 3.0 BUSA 75 Using Microcomputers 1.0 BUSA 81 Work Experience in Accounting 1.0 BUSA 76 Using Microcomputers 1.0 BUSA 81 Work Experience in Accounting 1.0 BUSA 831 Work Experience in Accounting 1.0 BUSA 81 Work Experience in Accounting 1.0 BUSA 81 Work Experience in Accounting 1.0 BUSA 821 Work Experience in Accounting 1.0 BUSA 821 Work Experience in Accounting 1.0 BUSA 821 Work Experience in Accounting 1.0 BUSA 831 Work Experience in Accounting 1.0 BUSA 831 Work Experience in Accounting 1.0 BUSA 831 Work Experience in Accounting 1.0 BUSA 84 Work Experience in Accounting 1.0 BUSA 85 Business Communications 3.0

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. prepares the student for entry-level positions within managerial accounting segment. Common duties performed in this field include cost analysis, budget preparation, variance analysis, expense reporting, acc analysis and preparation of various internal reports help management make decisions.

Requirements for the Certificate Required courses:

BUSA 7 Principles of Accounting 5.0 CSU,UC - Financial

5.0 CSU,UC BUSA 8 Principles of Accounting - Managerial Cost Accounting BUSA 21 4.0 Using Microcomputers BUSA 75 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 or BUSA 81 Work Experience in Accounting 1.0 BUSO 25 **Business Communications** 3.0 CSU **Total Units** 19.0

CSU,UC				
	Comput	istrative Assistant - er Information Systems D te L0594		
		II Certificate prepares students t where office organization and tu reeded.		
	Required of Completio	ments for the Certificate courses: n of the Administrative Support k (13 units) as follows:		1
	BUSO 5	Business English	3.0	
CSU	CISI 11	Computer Keyboarding or	3.0	CSU
	CISI 11A	Computer Keyboarding and	1.5	CSU
nt	CISI 11B	Computer Keyboarding	1.5	CSU
	CISB 15	Microcomputer Applications	4.0	CSU,UC
	CISI 41	Office Management Skills	3.0	
ть:-	Plus the following Level II coursework as follows:			
ı. This n the	BUSO 25	Business Communications	3.0	CSU
ii tile	CISI 12	Intermediate Computer	3.0	
t		Keyboarding		
ccount	CISB 31	Microsoft Word		4.0
to		Total Units	22.0	

Administrative Assistant - Level III Computer Information Systems 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			
coursework (13 units) as follows:			
BUSO 5	Business English	3.0	

BO20 2	Business English	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
CISI 11	Computer Keyboarding	3.0	CSU
	<u>or</u>		
CISI 11A	Computer Keyboarding	1.5	CSU
	and		
CISI 11B	Computer Keyboarding	1.5	CSU
CISI 41	Office Management Skills	3.0	
Required co	ourses:		
Completion	of the Administrative Assistant	t - Level	
coursework	(13 units) as follows:		
BUSO 25	Business Communications	3.0	CSU
CISB 31	Microsoft Word		3.0
CISI 12	Intermediate Computer	4.0	
	Keyboarding		
Plus the fol	lowing courses:		
Level III as f	follows:		
BUSO 26	Oral Communications	3.0	
	for Business		
BUSO 96A	Business Vocabulary	1.5	
CISB 51	Microsoft PowerPoint	3.0	CSU
CISB 61	Desktop Publishing Software	4.0	CSU
CISW 15	Web Site Development	4.0	CSU
	Total Units	33.5	- 35.5

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 Refrigeration	
AIRC 11	Welding for Air Conditioning	2.0
	and Refrigeration	
AIRC 12	Air Conditioning Codes	3.0
	and Standards	
AIRC 20	Refrigeration Fundamentals	4.0
AIRC 25	Electrical Fundamentals	5.0
	for Air Conditioning and Refriger	ation
AIRC 26	Gas Heating Fundamentals	2.0
AIRC 30	Heat Load Calculations	4.0
AIRC 31	Commercial Electrical	4.0
for Air Conditioning and Refrigeration		ation
AIRC 32A	Air Properties and Measurement	1.5
AIRC 34	Advanced Mechanical	4.0
	Refrigeration	
	Total Units	31.5

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

This program offers a day (full-time) or evening (parttime) 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	13.0	CSU
	Maintenance Technology		
AIRM 65B	Aircraft Powerplant	13.0	
	Maintenance Technology		
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0	
AIRM 70B	Aircraft Maintenance Electricity	3.0	
	and Electronics		
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	
Recomment	led Electives:		
AIRM 74	Aircraft Maintenance Technology	/	
	- Work Experience		
AIRM 80	Lab Studies		
	in Aircraft Maintenance Technolo	w	

- in Aircraft Maintenance Technology AIRM 81 Lab Studies in Aircraft Maintenance Technology
- EDT 12 Technical Engineering Drawing II
- ELEC 90 Survey of Electronics

PHYS 1

- MFG 70 Technical Mathematics
 - Manufacturing Applications 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 in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

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

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

Requirements for the Certificate *Required courses:*

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

AIRM 97A	Aircraft Powerplant	3.0		ansfer program) should consult w	rith an advisor
	Maintenance Technology		to discuss	transferability of courses.	
AIRM 97B	Aircraft Powerplant	3.0	Requirem	ents for the Certificate	
	Maintenance Technology		Required o	ourses:	
AIRM 98A	Aircraft Powerplant	3.0	AIRM 66A	Airframe Maintenance	13.0 CSU
	Maintenance Technology			Technology	
AIRM 98B	Aircraft Powerplant	3.0	AIRM 66B	Airframe Maintenance	13.0
	Maintenance Technology			Technology	
	Total Units	39.0	AIRM 70A	Aircraft Maintenance Electricity	3.0
Recommen	ded Electives:			and Electronics	
AIRM 74	Aircraft Maintenance Technol	oav	AIRM 70B	Aircraft Maintenance Electricity	3.0
	- Work Experience	- 57		and Electronics	
AIRM 80	Lab Studies in Aircraft		AIRM 71	Aviation Maintenance Science	6.0
	Maintenance Technology		AIRM 72	Aviation Materials and Processe	s 1.5
AIRM 81	Lab Studies in Aircraft		AIRM 73	Aviation Welding	1.5
	Maintenance Technology			Total Units	41.0
EDT 12	Technical Engineering Drawin	ng II	Recommen	nded Electives:	
ELEC 90	Survey of Electronics	5	AIRM 74	Aircraft Maintenance Technolog	у
MFG 70	Technical Mathematics			- Work Experience	
	- Manufacturing Applications	5	AIRM 80	Lab Studies in Aircraft	
PHYS 1	Physics			Maintenance Technology	
	•		- EDT 12	Technical Engineering Drawing	11

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

This program offers a day (full-time) or evening (parttime) 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

to discuss	transferability of courses.		
	ents for the Certificate		
Required of			
AIRM 66A	Airframe Maintenance	13.0	CSU
	Technology		
AIRM 66B	Airframe Maintenance	13.0	
	Technology		
AIRM 70A		3.0	
	and Electronics		
AIRM 70B		3.0	
	and Electronics		
AIRM 71	Aviation Maintenance Science	6.0	
AIRM 72	Aviation Materials and Processe		
AIRM 73	Aviation Welding	1.5	
	Total Units	41.0	
Recommen	nded Electives:		
AIRM 74	Aircraft Maintenance Technolog	у	
	- Work Experience		
AIRM 80	Lab Studies in Aircraft		
	Maintenance Technology		
EDT 12	Technical Engineering Drawing		
ELEC 90	Survey of Electronics		
MFG 70	Technical Mathematics		
	- Manufacturing Applications		
PHYS 1	Physics		
Airframe	e Maintenance Technology	y	
- Evening	g		
	intenance Technician		
	turing 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 in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, guality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (parttime) 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.

PHYS 1

Physics

to take the Passing the Powerplant Maintenanc employmen Degree (tran	ompletion of this program enabl FAA examinations in Airframe an General Exam plus the Airframe Exam provides certification as ar e Technician which is required fo t in this field. Students desiring insfer program) should consult wi ransferability of courses.	id General. and/or n Aircraft r a Bachelor's	P C C C C C C C C C C C C C C C C C C C
Requireme	nts for the Certificate		ŀ
Required co			A
AIRM 70A	Aircraft Maintenance Electricity	3.0	A
	and Electronics		
AIRM 70B	Aircraft Maintenance Electricity	3.0	A
	and Electronics		
AIRM 71	Aviation Maintenance Science	6.0	A
AIRM 72	Aviation Materials and Processes		A
AIRM 73	Aviation Welding	1.5	
AIRM 90A	Airframe Maintenance	3.0	A
	Technology		ĥ
AIRM 90B	Airframe Maintenance	3.0	A
	Technology		A
AIRM 91A	Airframe Maintenance	3.0	A
	Technology		A
AIRM 91B	Airframe Maintenance	3.0	
	Technology		ĥ
AIRM 92A	Airframe Maintenance	3.0	A
	Technology		A
AIRM 92B	Airframe Maintenance	3.0	F
	Technology		1.
AIRM 93A	Airframe Maintenance	3.0	S
	Technology		
AIRM 93B	Airframe Maintenance	3.0	0
	Technology		
	Total Units	39.0	
Recomment	ded Electives:		s
AIRM 74	Aircraft Maintenance Technology	1	د
	- Work Experience		S
AIRM 80	Lab Studies in Aircraft		P
	Maintenance Technology		ľ
EDT 12	Technical Engineering Drawing II		P
ELEC 90	Survey of Electronics		P
MFG 70	Technical Mathematics		S
	- Manufacturing Applications		S
DUNC 4	DI I		ر ا

Alcohol/Drug Counseling Public Services Department Certificate T2101

	Jelection P	Incedure		
	Selection P		·1.V	
	200 13		5.0	C30,0C
	SOC 14	Child Development	3.0 3.0	
	SOC 14	Marriage and the Family	3.0 3.0	
	PSYC 1An	Abnormal Psychology		CSU,UC
	PSYC 1AH	<u>or</u> Introduction to Psychology - Honors	3.0	CSILIE
	PSYC 1A	Introduction to Psychology	3.0	CSU,UC
	SOC 1H	Sociology - Honors		CSU,UC
	506 111	<u>Or</u> Secielary, Henere	2.0	(CLU LIC
	SOC 1	<u>or</u> Sociology	3.0	CSU,UC
	CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
	CHLD 10	Child Growth and Development or	3.0	CSU,UC
		2) courses from:		
	PLUS			
	AD 14	Advanced Internship/Seminar	4.0	CSU
	AD 13	Internship/Seminar	4.0	
	'	eld work courses:		
		and Referral		
	AD 11	Techniques of Intervention	3.0	
	AD 10	Client Record and Documentation	1.5	
	AD 9	Family Counseling	3.0	
	AD 8	Group Process and Leadership	3.0	
	Required sk	ill courses:		
	AD 6	Dual Diagnosis	3.0	CSU
		Prevention and Education		
	AD 5	Chemical Dependency:	1.5	CSU
	AD 4	Issues in Domestic Violence	3.0	
		Intervention, Treatment and Reco		200
	AD 3	Chemical Dependency:	3.0	CSU
	AD Z	of Alcohol/Drugs	5.0	(30
	AD 1 AD 2	Alcohol/Drug Dependency Physiological Effects	3.0 3.0	CSU
	Required co AD 1		2 0	CSU
	-	nts for the Certificate		
r		the Technology and Health Divisi	on.	
		r, a Certificate in Alcohol/Drug Stu		will be
	Upon comp	letion of the required courses with	haq	rade of

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 – 2D Multimedia **Commercial and Entertainment Arts** Certificate T0301

The Digital 2-D Multimedia 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 101A 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 120	Script Development for Animati	ion3.0	
ANIM 130	Introduction to 3-D Computer Animation	3.0	
ANIM 131	Introduction to Gaming	3.0	
ANIM 172	Motion Graphics, Compositing and Visual Effects	3.0	
ANIM 175	Web Animation with Flash	3.0	
ARTC 290	Portfolio	3.0	
ARTC 100	Graphic Design 1	3.0	
	Total Units	34.5	
Recomment	led Electives:		
ANIM 109	Advanced Principles of Animati	on	
ANIM 121	Nature and History of Animation	n	
ANIM 137A	Work Experience in New Digital	Media	
ANIM 148	Demo-Reel		
ARTD 16	Drawing: Perspective		
ARTD 17A	Drawing: Life		
ARTD 20	Design: Two Dimensional		
DUOT 10	Pasic Digital and Film Dhotogra	nhu	

PHOT 10 Basic Digital and Film Photography

Animation – 3D and CG Gaming **Commercial and Entertainment Arts** Certificate T0302

The Animation – 3D and CG Gaming Certificate provides training in 3-D animation including character modeling, lighting, texture, environment and special effects that lead to creative careers in film, television and the video game industry.

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

Requirements for the Certificate Required courses:

ANIM 101A	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 130	Introduction to 3-D Computer	3.0	
	Animation		

ANIM 131	Introduction to Gaming	3.0	CSU
ANIM 132	Modeling, Texture Mapping	3.0	
	and Lighting		
ANIM 134	Visual Effects I: Dynamics	1.5	
ANIM 135	Visual Effects II: Particle Systems	1.5	
ANIM 136	Animation Environment Layout	3.0	
ANIM 148	Demo-Reel	1.5	
ANIM 172	Motion Grading, Compositing	3.0	
	And Visual Effects		
ARTC 100	Graphic Design 1	3.0	
PLUS one of	f the following courses:		
ANIM 145	Advanced 3-D Modeling	3.0 0	or
ANIM 146	3-D Animation	3.0	
	Total Units	39.0	
Recomment	ded Electives:		
ANIM 107	Figure in Motion		
ANIM 109	Advanced Principles of Animation	ı	
ANIM 120	Script Development for Animatio	n	
ANIM 121	Nature and History of Animation		
ANIM 137A	Work Experience in New Digital A	ciha/	

- ANIM 137A Work Experience in New Digital Media ANIM 175 Web Animation with Flash
- ARTC 66 Portfolio
- ARTD 17A Drawing: Life
- ARTD 20 Design: Two Dimensional
- PHOT 10 Basic Digital and Film Photography

Animation - Traditional Commercial and Entertainment Arts Certificate T1010

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 101A	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 Animati	on 3.0	
ANIM 111A	Animal Drawing	1.5	
ANIM 115	Storyboarding	3.0	
ANIM 116	Character Development	1.5	
ANIM 117	Animation Background Layout	3.0	CSU
ANIM 120	Script Development for Animation	on 3.0	
ANIM 175	Web Animation with Flash	3.0	
ARTC 66	Portfolio	3.0	
ARTC 100	Graphic Design 1	3.0	
ARTD 16	Drawing: Perspective	3.0	CSU,UC
ARTD 17A	Drawing: Life	3.0	CSU,UC
ARTD 23A	Drawing: Head and Hands	1.5	CSU,UC
	Total Units	40.5	
Recommen	ded Electives:		
ANIM 107	Figure in Motion		
ANIM 130	Introduction to 3-D Computer A	nimati	on

ANIM 130	Introduction to 3-D Computer Animation
ANIM 121	Nature and History of Animation
ANIM 131	Introduction to Gaming
ANIM 137A	Work Experience in New Digital Media
ANIM 172	Motion Graphics, Compositing and Visual Effects
ARTS 22	Design: Three-Dimensional
PHOT 10	Basic Digital and Film 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 Reauired courses:

	ARCH 10	Design I - Elements of Design	3.0	CSU
1	ARCH 11	Architectural Drawing	3.0	CSU,UC
	ARCH 12	Architectural Materials	3.0	CSU
		and Specifications		
	ARCH 16	Basic CAD and Computer	4.0	CSU,UC
		Application		
	Plus the fo	llowing courses:		
	ENGL 68	Preparation for College Writing	4.0	
	MATH 51	Elementary Algebra	4.0	
		Total Units	21.0	

- Techn Architect	ectural Technology ology Concentratior ure and Engineering epartment e T0203	n Level II	- Techr Architec Design [ectural Technology nology Concentration ture and Engineering Department te T0204	Level III	- Desig Architect Design D	ectural Technology In Concentration Lev ture and Engineering Department te T0205	rel II	additional expertise in portfolio development and professional practice. The Level III Design Concentration Certificate prepares students for employment as an			
upon the p documents (CAD) appli overview o	I Technology Concentration Certi reparation of architectural const , with emphasis on computer-air cations. Regulatory requirement f construction practices are also Il prepare a portfolio of CAD doc	ruction ded design is and an included. The	additional profession Concentrat employme	III Technology Concentration Certii expertise in advanced CAD applic al practice. The Level III Technolog tion Certificate prepares students ent as an intermediate CAD operat a specialist.	ations and ly for	studio desi model-ma student wi assignmen	II Design Concentration Certificat ign, drawing, and presentation sl king, sketching and computer ap ill prepare a portfolio of creative its. The Level II Design Concentra tudents for employment as a des	kills, including plications. The design tion Certificate				
including 2 Concentrati	-D and 3-D projections. The Leve on Certificate prepares students	el II Technology for	Require	ments for the Certificate		or present	ation specialist. Ments for the Certificate	-	Required			
employmer specialist.	nt as a beginning CAD draftsmar	n or production	Completio	n of the Architectural Technology k (43) units.	Level I and II	Required o			Concentro	Concentration of the Architectural Technology Design Concentration coursework (42) units. Plus the following courses:		
	nents for the Certificate		PLUS				k (21) units.		ARCH 27	Design III - Environmental Des	sign 3.0 CSU, UC	
Required co	ourses: 1 of the Architectural Technology	lovall	ARCH 14	Building and Zoning Codes	3.0	PLUS	A 116 A 110 A 41		ARCH 29	Design IV - Advanced Project	3.0 CSU	
	k (21) units.	Leveri	ARCH 15	Architectural Working	3.0 CSU	ARCH 13	Architectural Illustration	3.0 CSU,UC	PLUS			
PLUS	(<i>21)</i> units.		ADCII 10	Drawings - I	2.0	ARCH 21 ARCH 23	Design II - Architectural Design Architectural Presentations	3.0 CSU 3.0 CSU		e (1) course from:		
ARCH 14	Building and Zoning Codes	3.0	ARCH 18	Architectural Computer Aided Design Elements	3.0	ARCH 23 ARCH 31	World Architecture I	3.0 CSU,UC	ARCH 14	Building and Zoning Codes	3.0	
ARCH 15	Architectural Working Drawings - I	3.0 CSU	ARCH 26	Architectural CAD Working	3.0	ARCH 32	World Architecture II	3.0 CSU	ARCH 15	Architectural Working Drawings - I	3.0 CSU	
ARCH 18	Architectural Computer	3.0	EDT 20	Drawings Technical Descriptive Geometry	3.0 (21)	PLUS	(1)		ARCH 18	Architectural Computer Aided	3.0	
	Aided Design Elements		INSP 70	Elements of Construction	3.0 CSU	ARCH 15	(1) course from: Architectural Working	3.0 CSU		Design Elements		
ARCH 26	Architectural CAD Working	3.0		ollowing courses:	5.0 050	Anch 15	Drawings - I	5.0 (50	ARCH 26	Architectural CAD Working Drawings	3.0	
	Drawings		ARCH 28	Architectural CAD	3.0 CSU		<u>or</u>		ARCH 28	Architectural CAD	3.0 CSU	
EDT 20	Technical Descriptive Geometry		Anch 20	Illustration and Animation	5.0 (50	ARCH 18	Architectural Computer	3.0	Anch 20	Illustration and Animation	5.0 (50	
INSP 70	Elements of Construction	3.0 CSU	ARCH 29	Design IV - Advanced Project	3.0 CSU		Aided Design Elements		ARCH 89	Architectural Work Experience	1.0 - 2.0	
PLUS			PLUS	besign in harancearrojeer	5.0 050	PLUS	5		INSP 70	Elements of Construction	3.0 CSU	
	(1) course from:		Coloctono	(1) course from:			ee (3) units from:			Total Units	51.0	
PHYS 1	Physics	4.0 CSU,U	ARCH 13	Architectural Illustration	3.0 CSU,UC	ARTD 15A	5 5 5	3.0 CSU,UC				
PHYS 2AG	<u>or</u> General Physics Total Units	4.0 CSU,U0 43.0	ADCU 21	Design II - Architectural Design Architectural Presentations World Architecture I World Architecture II	3.0 CSU 3.0 CSU 3.0 CSU,UC 3.0 CSU,UC	ARTD 20 ARTS 22	Design:Two Dimensional Design:Three-Dimensional Total Units	3.0 CSU,UC3.0 CSU,UC42.0	Air Cone and Wat	n g Automation ditioning, Welding :er Technologies te T0309		
			ARCH 89 EDT 26 INSP 71	Architectural Work Experience Civil Engineering Technology and CAD Construction Estimating	1.0 – 2.0 3.0 CSU 3.0 CSU				in the field and Green Bachelor's	am is designed to prepare the stu Is of Building Automation, Energy Building Technologies. Students o Degree (transfer program) should discuss transferability of courses.	Management, desiring a	
				Total Units	50.0 - 52.0				Require Required	ments for the Certificate		
									AIRC20 AIRC25	Refrigeration Fundamentals Electrical Fundamentals for A/C & Refrigeration	3.0 4.0	

AIRC31	Commercial Electrical for A/C & Refrigeration	4.0
AIRC34	Advanced Mechanical Refrigeration	4.0
AIRC61	Building Automation Fundamentals	2.5
AIRC63	Building Control Networks	3.0
AIRC65	Building Automation Network & Programming	3.0
AIRC67	Energy Management	4.0
CISN11	Telecommunications/Networking	ng 4.0
CISW41	XML Secure Programming	3.0
CISW49	Service Oriented Architecture Concepts & Practice	3.0
	Total Units	37.5

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 coursework (9 Units).

Requirements for the Certificate Required courses: Level I as follows: BUSM 20 Principles of Business 3.0 CSU,UC 3.0 CSU BUSM 61 **Business Organization** and Management BUSM 62 Human Resource Management 3.0 Plus the following courses: Level II as follows: ANTH 22 General Cultural Anthropology 3.0 CSU,UC Human Relations in Business 3.0 CSU BUSM 60 BUSO 25 **Business Communications** 3.0 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.

Manag	ess: Human Resource Jement - Level III Ing and Management Depa te L0535		ent	Accounti Certificat	ss: International - Le ng and Management Dep re L0597 ness: International - Level II Cer	partme	ent
knowledge communic of this cert increasing resource m certificate field to pre	ompleting the Level III Certificate e and practical experience in busi ations and computer use. Success ificate prepares students to hand diversity and complexity of mod nanagement. Completing the adv will help those working in the h spare for professional certification source Certification Institute.	iness sful cor dle the ern hu anced uman i	mpletion man resource	complexitie environmen knowledge marketing workforce in a fast-pa emphasis o	nethods and approaches to ma es of doing business in an inter- nt. Students acquire both theor and practical skills related to r within the global arena. Studer will acquire new skills that are aced dynamic global environme on the small business perspection ments for the Certificate	national etical nanagin nts activ highly d ent, with re.	l Ig and re in the lesirable
Reauire	ments for the Certificate			Required co			
Required c	ourses:				n of the Business: International	- Level	1
	n of Human Resource Manageme	ent - Le	vel I and	courseworl	k (9 units) as follows:		
	rsework (18 Units) as follows:			BUSM 20	Principles of Business		CSU,U
<i>Level I as f</i> BUSM 20	Principles of Business		CSU,UC	BUSM 51	Principles of International Business	3.0	CSU
BUSM 61	Business Organization	3.0	CSU	BUSS 36	Principles of Marketing	3.0	CSU
	and Management			Plus the fo	llowing courses:		
BUSM 62	Human Resource Management	3.0		Level II as f	follows:		
Required o				BUSM 61	Business Organization	3.0	CSU
Level II as i					and Management		
ANTH 22	General Cultural Anthropology		CSU,UC	BUSM 66	Small Business Management	3.0	CSU
BUSM 60	Human Relations in Business		CSU	PLUS			
BUSO 25	Business Communications	3.0	CSU	Select one	(1) course from:		
	llowing courses:			BUSS 70	International Marketing Conce	pts 3.0	
Level III as				CHIN 1	Beginning Chinese	4.0	CSU,U
BUSA 70	Payroll and Tax Accounting	3.0		FRCH 1	Elementary French	4.0	CSU,U
CISB 15	Microcomputer Applications		CSU,UC	GERM 1	Elementary German	4.0	CSU,U
	Total Units	25.0		ITAL 1	Elementary Italian	4.0	CSU,UO
Special Inf				JAPN 1	Elementary Japanese	4.0	CSU,U
	ceiving financial aid need to decla			SPAN 1	Elementary Spanish	4.0	CSU,U
Certificate a	as their goal to meet Financial Aid	require	ments.		Total Units	18.0	- 19.0
					eceiving financial aid need to de te as their goal to meet Financi		1e Level

Business: International - Level III Accounting and Management Department Certificate L0528

			certificat					
el II Certificate student to managing the n international n theoretical ed to managing and Students active in the at are highly desirable ironment, with an			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 coursework (18 Units) as follows:					
rspective		i un						
ficate			Required of	ments for the Certificate				
incure			Level I as f					
ational -	Level	1	BUSM 20	Principles of Business	3.0	CSU,UC		
	3.0	CSU,UC	BUSM 51	Principles of International Business		CSU		
nal	3.0	CSU	BUSS 36	Principles of Marketing	3.0	CSU		
			Required c					
	3.0	CSU	Level II as t					
			BUSM 61	Business Organization	3.0	CSU		
				and Management				
	3.0	CSU	BUSM 66	Small Business Management	3.0	CSU		
ement	3.0	CSU	PLUS					
incirc	5.0	000		(1) course from:				
			BUSS 70	International Marketing Concer				
g Concep	tc 2 0		CHIN 1	Beginning Chinese		CSU,UC		
y concep	4.0	CSU,UC	FRCH 1	Elementary French		CSU,UC		
		CSU,UC	GERM 1	Elementary German		CSU,UC		
		CSU,UC	ITAL 1	Elementary Italian		CSU,UC		
		CSU,UC	JAPN 1	Elementary Japanese		CSU,UC		
		CSU,UC	SPAN 1	Elementary Spanish	4.0	CSU,UC		
		CSU,UC	PLUS					
		- 19.0		required courses:				
	10.0	- 19.0	Level III as					
d to doe	lara th		BUSL 20	International Business Law	3.0			
ed to dec Financial		ie Levei	BUSM 50	World Culture:	3.0	CSU		
	Alu			A Business Perspective				
				<u>or</u>				
			ANTH 22	General Cultural Anthropology		CSU,UC		
			BUSM 52	Principles of Exporting and Importing	3.0	CSU		
				Total Units	27.0	- 28.0		
					27.0	20.0		

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 coursework (9 units) as follows: RUSM 20 Principles of Rusiness

	. ,		
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 fo	llowing courses:		
Level II as f	ollows:		
BUSM 60	Human Relations in Business	3.0	CSU
BUSM 62	Human Resource Management	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
	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

	ties and provide students with a s			FASH 6
	a upon which to build a managen ments for the Certificate	nent c	areer.	CISB 1
Reauired				Plus th
	n of the Business: Management -	Level	l and	Level I
Level II cou	ırsework (18.5 Units) as follows:			BUSA 1
Level I as f	ollows:			BUSM
BUSM 20	Principles of Business	3.0	CSU,UC	DODIN
BUSM 61	Business Organization	3.0	CSU	BUSM
	and Management			BUSS 3
BUSS 36	Principles of Marketing	3.0	CSU	
Required of	courses:			Specia
Level II as	follows:			Studen
BUSM 60	Human Relations in Business	3.0	CSU	Certific
BUSM 62	Human Resource Management	3.0		
CISB 15	Microcomputer Applications	4.0	CSU,UC	Busi
Plus the fo	ollowing courses:			- Lev
Level III as	follows:			Accou
BUSA 7	Principles of Accounting	5.0	CSU,UC	Certif
	- Financial			Introdu
BUSM 10	Principles of Continuous	3.0		advand
	Quality Improvement			practic
BUSM 51	Principles of International	3.0	CSU	leaders
	Business			this ce
	Total Units	30.0		diversi
Special Int	formation:			Requ
Students re	eceiving financial aid need to decla	re the	Level III	Requir
Certificate	as their goal to meet Financial Aid	requir	ements.	Compl
				BUSO 2
Busine	ess: Retail Manageme	nt		BUSS 5
- Level	II			00000
Account	ing and Management Depa	rtme	ent	
Certifica	te L0591			FASH 6
	ediate certificate builds upon the Lev			
	tudents to the various functions of m	,		CISB 1
	ons. Fundamentals of business organ			Requir
	and staffing provides the student a s to build a career in retail managem		undation	Comple
	5	ciit.		course
Require Required of	ments for the Certificate			BUSA 1
	ourses: n of the Retail Management - Lev	ol I		BUSM
	k (9.5 Units) as follows:			
BUSO 25	Business Communications	3.0	CSU	BUSM
BUSS 50	Retail Store Management	3.0		BUSS 3
	and Merchandising			
	<u>or</u>			
	<u> </u>			

FASH 62 Retail Store Management and Merchandising 3.0 CSU and Merchandising Plus the following courses: Level II as follows: USB 15 Microcomputer Applications 4.0 CSU,UC Plus the following courses: Level II as follows: BUSA 7 Principles of A - Financial BUSM 61 Business Organization 3.0 CSU and Management BUSS 26 Oral Communi- Total Units BUSS 36 Principles of Marketing 3.0 CSU and Management Sudents receiving financial it of the retrificate as their goal to meet Financial Aid requirements. T-Level III Certificate as their goal to meet Financial Aid requirements. Business: Small E Management - Low Accounting and Management Department Certificate prepares 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 productivity through the d completion of the Retail Management 2.0 BUSD 25 Business Communications and Merchandising 3.0 CSU pust the following courses: BUSN 62 Required courses: Completion of the Retail Management 3.0 SUSM 60 Human Relatic BUSM 60 BUSS 25 Retail Store Management 3.0 SUSM 61 Business Organization 3.0 CSU pust following courses: Completion						
CISB 15Microcomputer Applications4.0CSU,UCPlus the following courses:Evel II as follows:BUSA 1Fundamentals of Accounting3.0BUSA 11Fundamentals of Accounting3.0CSUBUSM 61Business Organization3.0CSUand Management3.0CSUBUSS 36Principles of Marketing3.0CSUTotal Units22.0Special Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Business: Retail ManagementBusiness: Small BusineAccounting and Management Department- Level IIIICertificate IO528Introductory 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:Required courses: Completion of the Retail Management - Level I and MerchandisingCISB 15Microcomputer Applications3.0BUSS 62Retail Store Management - Level II coursework (21.5 Units) as follows: BUSS 10BUSA 11Fundamentals of Accounting3.0BUSM 62Human Resource Management - Level II coursework (21.5 Units) as follows: BUSM 61Business Organization and ManagementBUSM 62Human Resource Management - Level II coursework (21.5 Units) as follows: BUSM 62BUSM 64BUSM 62 <t< td=""><td>FASH 62</td><td>-</td><td>3.0</td><td>CSU</td><td></td><td>-</td></t<>	FASH 62	-	3.0	CSU		-
Just to follows:BUSA 11Fundamentals of Accounting3.0BUSA 11Fundamentals of Accounting3.0CSUand Management3.0CSUBUSM 62Human Resource Management3.0CSUBUSS 36Principles of Marketing3.0CSUTotal Units22.0Special Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Business: Retail ManagementBusiness: Small EHuman Resource Management Department-Level IIICertificate TO521Introductory 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 Curses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows: BUSN 25Business Communications 3.0SOBUSS 16Microcomputer Applications and Merchandising USS 10SoRetail Store Management - Level II coursework (21.5 Units) as follows: BUSM 61Business Organization and Management - Level II coursework (21.5 Units) as follows: BUSM 61Business Organization and ManagementBUSM 62Human Resource Management - Level II 	CISB 15		4.0	CSU,UC	BUSA 7	Principles of A
Level II as follows:BUSM 60Human RelaticBUSA 11Fundamentals of Accounting3.0GSUBUSM 61Business Organization3.0GSUand Management3.0GSUBUSM 62Human Resource Management3.0GSUBUSS 36Principles of Marketing3.0CSUTotal Units22.0Special Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Eusiness: Retail Management- Level IIIAccounting and Management Department- Level IIIAccounting and Management Department- Level IIIIntroductory statement: Students completing the advanced Level III certificate meaning in dinancial controls. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern retail management.Required courses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows:BUSM 20Principles of B Microcomputer ApplicationsBUS 25Business Communications and Merchandising USS 10SoRetail Store Management - Level II coursework (21.5 Units) as follows:BUSM 60Human Relatic BUSM 61BUSM 61Business Organization and Management - Level II coursework (21.5 Units) as follows:Sucessful completion of the Retail Management - Level II coursework (21.5 Units) as follows:BUSM 60Human Resour Total UnitsBUSM 61Business Organization and Management - Level II coursework (21.5 Units) as follows:Sucessful coursework sucessful courseBUSM 60<	Plus the fo	ollowina courses:				- Financial
JUSM 61Business Organization3.0CSUand Management3.0CSUBUSM 62Human Resource Management3.0Students receiving financialBUSM 62Human Resource Management3.0CSUSpecial Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements Level IIIAccounting and Management Department- Level IIIAccounting and Management Department- Level IIIIII formation:Students receiving financial controls. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern retail management.Requirements for the CertificateRequired courses:Completion of the Retail Management - Level ICompletion of Business: SrSUSS 50Retail Store Management 3.0CSUBUSS 50Retail Store Management 3.0SUSUSS 10Microcomputer Applications 4.0CSU,UCRequired courses:Completion of the Retail Management 3.0Sudents receiving financialGUSB 15Microcomputer Applications 4.0CSU,UCRequired courses:Completion of the Retail Management 4.Gurgetion of the Retail Management 4.Special Information:Students receiving financialSudents receiving financialGUSA 11Fundamentals of Accounting 3.0SUSUSA 12Fundamentals of Accounting 3.0SU <td></td> <td>•</td> <td></td> <td></td> <td>BUSM 60</td> <td>Human Relation</td>		•			BUSM 60	Human Relation
Special Information:Special Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Business: Retail Management - Level IIIAccounting and Management Department - Level IIICertificate TO521The Business: Small Busines Certificate propares 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. Required courses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows: BUSD 25 BUSS 50 Retail Store Management 3.0 CISB 15 Microcomputer Applications 4.0 CISB 15 Microcomputer Applications 4.0 CISB 15 Microcomputer Applications 4.0 CISB 15 Microcomputer Applications 3.0 CISB 16 Microcomputer Applications 3.0 CISB 15 Microcomputer Applications 3.0 CISB 16 Microcomputer Applications 3.0 CISU And Management BUSM 62 Human Resource Management 3.0CISU Plus the following courses Sudents receiving financial III Certificate as their goal requirements.Completion of the Retail Management - Level II coursework (21.5 Units) as follows: BUSM 61 BUSM 62 BUSM 62Special Information	BUSA 11	Fundamentals of Accounting	3.0		BUSO 26	Oral Communi
BUSM 62Human Resource Management3.0BUSS 36Principles of Marketing3.0CSUTotal Units22.0Special Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Business: Retail Management- Level IIIAccounting and Management DepartmentCertificate TO521The Business: Small BusineIntroductory statement: Students completing the advanced Level III Certificate will have knowledge and practical experience in business communication, leadership and financial controls. Successful completion of the Retail Management - Level I coursework (9.5 Units) as follows:Requirements for the CertificateBUSD 25Business Communications3.0CSUBUSS 50Retail Store Management3.0CSUBUSS 50Retail Store Management3.0CSUArk 62Retail Store Management - Level II coursework (21.5 Units) as follows:BUSM 60BUSM 61Business Organization3.0CSUBUSM 61Business Organization3.0CSUBUSM 62Human Resource Management3.0Students receiving financiaBUSM 62Human Resource Management3.0CSU	BUSM 61	Business Organization	3.0	CSU		Total Units
BUSS 36Principles of Marketing3.0CSUTotal Units22.0Special Information:Sudents receiving financial aid need to declare the Level IIIBusiness: Small EStudents receiving financial aid need to declare the Level IIIBusiness: Small ECertificate as their goal to meet Financial Aid requirements.Business: Small EBusiness: Retail ManagementCertificate Lo588The Business: Retail ManagementCertificate Lo588The Susiness: Small EManagement - Level IIIAccounting and Management DepartmentCertificate provides studentCertificate TO521Introductory 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:Required courses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows:BUSD 25Business Communications and Merchandising CISB 15Microcomputer Applications and MerchandisingS.0CISB 15Microcomputer Applications and MerchandisingS.0SUM 60BUSM 61Business Organization and ManagementS.0SUBUSM 62Human Resource Management and ManagementStudents receiving financia all I Certificate as their goal requirements.		and Management			Special Int	formation:
Total Units22.0Special Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Business: Retail Management - Level III- Level IIIAccounting and Management DepartmentCertificate TO521Introductory 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.Required courses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows: BUSD 25Retail Store Management 3.0BUSS 50Retail Store Management 3.0SUSM 60FASH 62Retail Store Management 3.0SUSM 61BUSS 411Fundamentals of Accounting 3.0SUSM 62BUSM 61Business Organization and Management3.0BUSM 62Human Resource Management 3.0Sudents receiving financial urequirements.	BUSM 62	Human Resource Management	3.0		Students re	eceiving financial
Special Information:Students receiving financial aid need to declare the Level IIICertificate as their goal to meet Financial Aid requirements.Business: Retail Management - Level IIIAccounting and Management DepartmentCertificate TO521Introductory 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 coursework (9.5 Units) as follows: BUSD 25BUSD 25Business Communications and Merchandising and MerchandisingUSS 50Retail Store Management and Merchandising(ISB 15Microcomputer Applications and MerchandisingCISB 15Microcomputer Applications and ManagementBUSA 11Fundamentals of Accounting and ManagementBUSM 61Business Organization and ManagementBUSM 62Human Resource Management and ManagementBUSM 62Human R	BUSS 36	Principles of Marketing	3.0	CSU	Certificate	as their goal to n
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 TO521 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 coursework (9.5 Units) as follows: BUS0 25 Business Communications BUSS 50 Retail Store Management Cartificate prepares Management - Level II Coursework (9.5 Units) as follows: BUSM 62 BUSM 61 Business Organization BUSM 61 Business Organization BUSM 62 Human Resource Management BUSM 63 Human Resource Management BUSM 64 Human Resource Managemen		Total Units	22.0			
Certificate as their goal to meet Financial Aid requirements.Accounting and Management- Level IIICertificate LO588Accounting and Management DepartmentCertificate T0521Introductory 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.Required courses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows: BUS0 25Retail Store Management 3.0Required courses: Completion of the Retail Management 3.0Required courses: Completion of the Retail Management 3.0SUSM 60Human Relatic BUSM 61FASH 62Retail Store Management - Level II coursework (21.5 Units) as follows: BUSA 11Succusting 3.0CSU BUSM 62Human Resource Total UnitsBUSM 61Business Organization and Management3.0CSU BUSM 62Human Resource Management 3.0Sudents receiving financial III Certificate as their goal requirements.	Special Int	formation:				
Certificate LO588Business: Retail Management- Level IIIAccounting and Management DepartmentCertificate TO521Introductory 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 coursework (9.5 Units) as follows: BUS0 25Retail Store Management - Level I coursework (9.5 Units) as follows: BUSS 50Retail Store Management - Level II coursework (21.5 Units) as follows: BUSM 62Retail Store Management - Level II coursework (21.5 Units) as follows: BUSM 61Business Organization and Merchandising BUSM 61Business Organization and ManagementCisB 15Microcomputer Applications and Merchandising BUSM 61A.0CSU,UC BUSM 62Special Information: Students receiving financia and ManagementBUSM 61Business Organization and Management3.0CSU BUSM 62Human Resourc Total UnitsBUSM 62Human Resource Management and Management3.0CSU BUSM 62Special Information: Students receiving financia and requirements.	Students re	eceiving financial aid need to declar	e the	Level III	Manag	<mark>jement - L</mark> o
 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 coursework (9.5 Units) as follows: BUS0 25 Business Communications 3.0 CSU BUSS 50 Retail Store Management 3.0 and Merchandising or Retail Store Management 3.0 CISB 15 Microcomputer Applications 4.0 CSU,UC FASH 62 Retail Store Management - Level II coursework (21.5 Units) as follows: BUSM 61 Business Organization 3.0 CSU and Management BUSA 11 Fundamentals of Accounting 3.0 BUSM 61 Business Organization 3.0 CSU and Management BUSM 62 Human Resource Management 3.0 	Certificate	as their goal to meet Financial Aid	requir	ements.		-
Reconstructing and management DepartmentCertificate T0521Introductory 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.teamwork, and leadership productivity through the d Completion of this certificate opportunities for the Certificate Required courses:Requirements for the Certificate Required courses:Required courses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows: BUSS 25Business Communications and Merchandising and Merchandising3.0CSU BUSM 60Plus the following courses: BUSM 60BUSM 60Human Relatic BUSM 61FASH 62Retail Store Management - Level II coursework (21.5 Units) as follows: BUSA 11SoSuc CSU,UC Fundamentals of Accounting and ManagementSpecial Information: Students receiving financia III Certificate as their goal requirements.BUSM 62Human Resource Management and Management3.0Students receiving financia III Certificate as their goal		-	nt		Certificate	provides studen
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 <i>Required courses:</i> <i>Completion of the Retail Management - Level I</i> <i>coursework (9.5 Units) as follows:</i> BUSO 25 Business Communications 3.0 CSU BUSS 50 Retail Store Management 3.0 ErASH 62 Retail Store Management 3.0 CISB 15 Microcomputer Applications 4.0 CSU,UC <i>Required courses:</i> <i>Completion of the Retail Management - Level II</i> <i>coursework (21.5 Units) as follows:</i> BUSA 11 Fundamentals of Accounting 3.0 BUSM 61 Business Organization 3.0 CSU and Management BUSM 62 Human Resource Management 3.0		• • •	rtme	ent	teamwork	and leadership
Required courses: Completion of the Retail Management - Level I coursework (9.5 Units) as follows: BUSO 25 Business Communications and Merchandising CISB 15Retail Store Management and Merchandising and MerchandisingRequired courses: Completion of the Retail Management and Merchandising and MerchandisingRequired courses: Completion of the Retail Management and MerchandisingRequired courses: BUSN 20Principles of B BUSN 30Required courses: Completion of the Retail Management and MerchandisingRequired courses: BUSM 60Required courses: BUSM 60Required courses: BUSM 61Required courses: BUSM 62Required courses: BUSM 61Required courses: BUSM 62Required courses: BUSM 61Required courses: BUSM 61Required courses: BUSM 61Required courses: BUSM 61Required courses: BUSM 62Required courses: BUSM 61Special Information: Students receiving financia BUSM 61Sugar Sa Counting BUSM 61Sugar Sa Counting BUSM 61Sugar Sa Counting BUSM 62Sugar Sa Counting BUSM 62Sugar Sa Counting BUSM 62Sa Counting BUSM 62Sa Counting BUSM 62Sa Counting BUSM 63Sa Counting BUSM 64Sa Cou	advanced l practical ex leadership	Level III Certificate will have know xperience in business communicat and financial controls. Successful	rledge tion, comp	letion of	Completion opportunit business a	n of this certifica ties for those cur rena.
Requirements for the Certificate Required courses:Level I coursework (9 Units BUSM 20Completion of the Retail Management - Level I coursework (9.5 Units) as follows:BUSM 20Principles of B BUSM 66BUSO 25Business Communications3.0CSUBUSS 50Retail Store Management3.0Plus the following courses Level II as follows:BUSS 50Retail Store Management3.0Plus the following courses Level II as follows:FASH 62Retail Store Management3.0SUSM 60FASH 62Retail Store Management3.0CSUand Merchandisingand MerchandisingBUSM 61Business Organi and Management - Level II coursework (21.5 Units) as follows:Required courses:Completion of the Retail Management - Level II coursework (21.5 Units) as follows:Sudents receiving financia BUSM 61BUSA 11Fundamentals of Accounting3.0CSUBUSM 61Business Organization3.0CSUand Management3.0CSUBUSM 62Human Resource Management3.0					Required o	ourses:
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Completion of the Retail Management - Level Icoursework (9.5 Units) as follows:BUSN 25Business Communications3.0CSUBUSS 50Retail Store Management3.0Plus the following coursesand MerchandisingorBUSM 66Human Relaticormd MerchandisingBUSM 60Human RelaticFASH 62Retail Store Management3.0CSUBUSM 60and Merchandisingand MerchandisingBUSM 61Business OrganCISB 15Microcomputer Applications4.0CSU,UCRequired courses:Completion of the Retail Management - Level IISpecial Information:coursework (21.5 Units) as follows:Sudents receiving financiaBUSA 11Fundamentals of Accounting3.0CSUBUSM 61Business Organization3.0CSUand Management3.0CSU	Required c	ourses:				•
coursework (9.3 Units) as follows: BUSO 25 Business Communications 3.0 CSU BUSS 36 Principles of M BUSS 50 Retail Store Management 3.0 CSU Plus the following courses and Merchandising or BUSM 60 Human Relatic FASH 62 Retail Store Management 3.0 CSU BUSM 60 Human Relatic FASH 62 Retail Store Management 3.0 CSU BUSM 61 Business Organization CISB 15 Microcomputer Applications 4.0 CSU,UC BUSM 62 Human Resour Required courses: Completion of the Retail Management - Level II Special Information: Students receiving financia BUSA 11 Fundamentals of Accounting 3.0 CSU III Certificate as their goal BUSM 62 Human Resource Management 3.0 SU III Certificate as their goal BUSM 62 Human Resource Management 3.0 CSU requirements.			el I			
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Dr. Dr. Business Organization FASH 62 Retail Store Management 3.0 CSU BUSM 61 Business Organization and Merchandising and Merchandising and Management and Management CISB 15 Microcomputer Applications 4.0 CSU,UC BUSM 62 Human Resour Required courses: Completion of the Retail Management - Level II Special Information: Students receiving financia BUSA 11 Fundamentals of Accounting 3.0 III Certificate as their goal BUSM 61 Business Organization 3.0 CSU and Management 3.0 Students receiving financia BUSM 62 Human Resource Management 3.0		5				
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CISB 15 Microcomputer Applications 4.0 CSU,UC BUSM 62 Human Resource Total Units Required courses: Completion of the Retail Management - Level II coursework (21.5 Units) as follows: BUSA 11 Fundamentals of Accounting 3.0 III Certificate as their goal BUSM 61 Business Organization 3.0 CSU and Management 3.0 requirements.	ГАЭП ОД	5	5.0	(30	20201101	5
Required courses: Total Units Completion of the Retail Management - Level II Special Information: coursework (21.5 Units) as follows: Students receiving financia BUSA 11 Fundamentals of Accounting 3.0 III Certificate as their goal BUSM 61 Business Organization 3.0 CSU and Management 3.0 Fundamentals of Accounting 3.0		5	10		BUSM 62	
Completion of the Retail Management - Level IISpecial Information:coursework (21.5 Units) as follows:Students receiving financiaBUSA 11Fundamentals of Accounting3.0III Certificate as their goalBUSM 61Business Organization3.0CSUand Management3.0requirements.BUSM 62Human Resource Management3.0			4.0	C30,0C	50502	
coursework (21.5 Units) as follows: Students receiving financia BUSA 11 Fundamentals of Accounting 3.0 BUSM 61 Business Organization 3.0 CSU and Management and Management 3.0	•				Snecial Int	formation ·
BUSA 11 Fundamentals of Accounting 3.0 III Certificate as their goal BUSM 61 Business Organization 3.0 CSU and Management 3.0 BUSM 62 Human Resource Management			21 11			
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and Management BUSM 62 Human Resource Management 3.0		5		CSII		
BUSM 62 Human Resource Management 3.0			5.0	CJU	requireme	113.
	BUSM 62		30			
55555 Thickney 5.0 C50				CSU		
		·····	2.0			

B020 52	Business communications	3.0	CSU
BUSS 50	Retail Store Management	3.0	
	and Merchandising		
	<u>or</u>		
FASH 62	Retail Store Management	3.0	CSU
	and Merchandising		
CISB 15	Microcomputer Applications	4.0	CSU,UC
Required co	ourses:		
Completion	of the Retail Management - Leve	el II	
coursework	(21.5 Units) as follows:		
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

es: 5.0 CSU,UC Accounting tions in Business 3.0 CSU nications for Business3.0 33.0

al aid need to declare the Level III meet Financial Aid requirements.

Business _evel II nagement Department

ness Management - Level II ents with practical small business ses on issues such as motivation, skills that lead to enhanced development of people. cate will lead to new career urrently employed in the small

he Certificate

Small Business Management ts) as follows:

	,,		
BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 66	Small Business Management	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
Plus the fo	llowing courses:		
Level II as f	follows:		
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	
	Total Units	18.0	
Snocial Inf	ormation		

ial aid need to declare the Level to meet Financial Aid

Business: Small Business
Management - Level III
Accounting and Management Department
Certificate T0590
Upon completion of the Rusiness: Small Rusiness

Upon completion of the Business: Small Business Management - Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an everchanging small business environment. Computer skills applicable to small business will be developed. Students will have a strategic perspective across all small business functions. Students will acquire the skills and abilities necessary to build a successful small business career.

Requirements for the Certificate Required courses: Completion of Business: Small Business Management

Level I and II coursework (18.5 Units) as follows:				
BUSM 20	Principles of Business	3.0	CSU,UC	(
BUSM 66	Small Business Management	3.0	CSU	
BUSS 36	Principles of Marketing	3.0	CSU	(
Required co	ourses:			
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 fol	lowing courses:			
Level III as f	follows:			
BUSA 7	Principles of Accounting	5.0	CSU,UC	
	- Financial			
BUSM 10	Principles of Continuous	3.0		
	Quality Improvement			
CISB 15	Microcomputer Applications	4.0	CSU,UC	-
	Total Units	30.0		
Special Info	ormation:			
Students receiving financial aid need to declare the Level				

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

			1						
Childre	en's Program Certifica	te:		CHLD 71B	Management/Marketing/ Personnel for ECD Programs	3.0		Childre	n's Program C
	istration			CHLD 75	Supervising Adults in Early	2.0			l - Level III
Child Dev	velopment			CHED 75	Childhood Settings	2.0		Child Dev	elopment
Certificat	e T1313			PLUS				Certificat	e L1327
The Childre	n's Program Certificate: Administr	ation			(4) units from:			This third le	evel of the Children's P
	Specialization is designed for the student who desires				(4) units from: four (4) unit selection should not	inclu	to any	General is e	xpected to meet or ex
general knowledge about Early Childhood Development					have previously taken.	mau	ie uny	requiremen	ts for Assistant Teache
and skills in administering programs for young children.				BUSM 66	Small Business Management	3.0	CSU	Teacher (wi	th 16 units of G.E.)
	ate meets or exceeds Title 22 edu			CHLD 72	Teacher, Parent	3.0		Requiren	nents for the Cer
	its for Center Director. Direct expe				and Child Relationships			Required co	
	highly recommended to complete fective administrator.	e prepa	iration	CHLD 73	Infant/Toddler Care	3.0	CSU		of the Children's Prog
					and Development				vel I, as follows:
-	ments for the Certificate			CHLD 82	Advocacy in Early Childhood	1.0		CHLD 1	Child, Family and Com
Required co	ourses: 1 of the Children's Program Certifi	cator			Development			CHLD 5	Principles/Practices
General as	•	cute.		CHLD 83	Current Issues in Child	1.0			in Child Development
CHLD 1	Child, Family and Community	3.0	CSU,UC		Development			CHLD 6	Survey of Child
CHLD 5	Principles/Practices	3.0	· ·			43.0		<i></i>	Development Curricul
0.120 0	in Child Development Programs	510						CHLD 10	Child Growth and Dev
CHLD 6	Survey of Child	3.0	csu	Childre	n's Program Certifica	ate:			<u>or</u>
0.120 0	Development Curriculum	510			l - Level II			CHLD 10H	Child Growth and Dev
CHLD 10	Child Growth and Development	3.0	CSU.UC		velopment				- Honors
	or			Certificat	•				lowing courses:
CHLD 10H		3.0	CSU,UC	This certific	ate enhances the student's know	ledae	hevond	Level II as f	
	- Honors		,		viding additional skills in working			CHLD 64	Health, Safety and Nu
CHLD 64	Health, Safety and Nutrition	3.0	CSU	children.					of Young Children
	of Young Children			Requirer	nents for the Certificate			CHLD 68	Children with Special
CHLD 68	Children with Special Needs	3.0	CSU	Required co				CHLD 84	Guidance & Discipline
CHLD 84	Guidance and Discipline	1.0	CSU	Completion	of the Children's Program work:			0.00	in Early Childhood Set
	in Child Development Settings			General - Le	evel I, as follows:			PLUS	(3) courses from:
PLUS	, ,			CHLD 1	Child, Family and Community	3.0	CSU,UC	Level III as t	.,
	e (3) courses from:			CHLD 5	Principles/Practices	3.0	CSU	CHLD 50	Multicultural Education
CHLD 61	Language Arts & Art Media	3.0			in Child Development Programs			CILD 50	Anti-Bias Perspective
0.120 0.1	for Young Children	510		CHLD 6	Survey of Child	3.0	CSU	CHLD 61	Language Arts & Art I
CHLD 62	Music and Motor Development	3.0	CSU		Development Curriculum			CILD OI	for Young Children
	for Young Children			CHLD 10	Child Growth and Development	3.0	CSU,UC	CHLD 62	Music and Motor Dev
CHLD 63	Creative Sciencing	3.0			<u>or</u>			CHED OF	for Young Children
	and Math for Young Children			CHLD 10H	Child Growth and Development	3.0	CSU,UC	CHLD 63	Creative Sciencing an
CHLD 73	Infant/Toddler Care	3.0	CSU		- Honors			CITED 05	for Young Children
	and Development			Plus the fo	llowing courses:			CHLD 73	Infant/Toddler Care
PLUS				Level II as f	ollows:				and Development
	required courses:			CHLD 64	Health, Safety and Nutrition	3.0	CSU		Total Units
CHLD 50	Multicultural Education:	3.0			of Young Children				
51120 30	Anti-Bias Perspective	5.0		CHLD 68	Children with Special Needs	3.0	CSU		
CHLD 71A	Administration of Child	3.0	CSU	CHLD 84	Guidance & Discipline	1.0	CSU		
	Development Programs	5.0			in Early Childhood Settings				
					Total Units	19.0			

ogram Certificate: el III nt Children's Program Certificate: meet or exceed Title 5 education stant Teacher, Associate Teacher, and s of G.E.) r the Certificate Idren's Program coursework: llows: nily and Community 3.0 CSU,UC 3.0 CSU /Practices evelopment Programs Child 3.0 CSU nent Curriculum wth and Development 3.0 CSU,UC wth and Development 3.0 CSU,UC urses: afety and Nutrition 3.0 CSU Children with Special Needs 3.0 CSU & Discipline 1.0 CSU hildhood Settings es from: ural Education: 3.0 Perspective e Arts & Art Media 3.0 Children Motor Development 3.0 CSU Children Sciencing and Math 3.0 Children

3.0 CSU

28.0

Certificat	e T1311			
The Children's Programs Small Business Management Certificate provides information for operating or owning a preschool.				
	ments for the Certificate			
BUSM 60	Human Relations in Business	3.0	CSU	
BUSM 66	Small Business Management	3.0	CSU	
BUSO 5	Business English	3.0		
CHLD 1	Child, Family and Community	3.0	CSU,U	
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,U	
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,U	
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	CSU	
CHLD 71A	Administration of Child Development Programs	3.0	CSU	
CHLD 71B	Management/Marketing/ Personnel for ECD Programs	3.0		
FCS 41	Life Management	3.0	CSU	
	Total Units	33.0		
Recommen	ded Electives:			
BUSA 70	Payroll and Tax Accounting or			
BUSA 71	Financial Planning			
BUSL 18	Business Law			
0002.10	or			
BUSL 18H	Business Law - Honors			
BUSM 20	Principles of Business			
BUSM 61	Business Organization and Mana	aeme	nt	
BUSO 25	Business Communications	5		
BUSS 33	Advertising and Promotion			
BUSS 36	Principles of Marketing			
CISB 11	Computer Information Systems			

cate					
				PLUS	
	en's Program Certifica	te:		Select two	(2) courses from:
Teachir	ıg			CHLD 51	Early Literacy in
Child Dev	/elopment	ent			Child Development
Certificat	e T1312			CHLD 61	Language Arts & Art Media
The Childre	n's Program Certificate: Teaching S	Specia	alization		for Young Children
is designed	for the student who desires know	vledg	je about	CHLD 62	Music and Motor Developmen
	nood Development and skills for t				for Young Children
young children. This certificate meets or exceeds Title 22				CHLD 63	Creative Sciencing and Math
	equirements for fully qualified tea		s and is		for Young Children
	meet or exceed Title 5 education				Total Units
	its for Teacher Level (with 16 unit th or Science, Social Science and I				
-		nuille	inities).	Compu	uter and Networking
Required co	nents for the Certificate				ology - Level I
CHLD 1		2 0	CSU,UC		ics and Computer
CHLD T	Child, Family and Community Principles/Practices		CSU,UC		ogy Department
CILU J	in Child Development Programs	5.0	(30	Certificat	te L0795
CHLD 6	Survey of Child	30	CSU	The Compu	ter and Networking Technology
CILDO	Development Curriculum	5.0	CJU		programs prepare students to be
CHLD 10	Child Growth and Development	3 0	CSU,UC		rking service technicians. Course
CILD IV	<u>Or</u>	5.0	00,00		certificate provide foundations in
CHLD 10H	Child Growth and Development	30	CSU,UC		nics, operating systems, compute oting, and preparation for the A-
	- Honors	5.0			n sponsored by CompTIA and of
CHLD 64	Health, Safety and Nutrition	3.0	CSU		oughout the country. Level I cert
	of Young Children				tall, configure, maintain, trouble
CHLD 68	Children with Special Needs	3.0	CSU		and networks. With further prep
CHLD 84	Guidance and Discipline	1.0	CSU		II certificate, students will read
	in Child Development Settings				IA Network+, Server+, and Secu
Plus the fo	llowing courses:				n tests. These industry certification
CHLD 50	Multicultural Education:	3.0			worldwide as benchmarks for the technician. Further, students with the technician is the technician of the technic tec
CITED 50	Anti-Bias Perspective	5.0			which to seek additional I.T. cert
CHLD 66	Early Childhood Development	20	CSU		or the computer and networking
0.120 00	Observation	2.0			ments for the Certificate
CHLD 66L	Early Childhood Development	1.0	CSU	Required c	
	Observation Laboratory			CNET 50	PC Servicing
CHLD 67	Early Childhood Development	2.0	CSU	CNET 52	PC Operating Systems
	Participation			CNET 54	PC Troubleshooting
CHLD 67L	Early Childhood Development	1.0	CSU	CNET 60	A+ Certification Preparation
	Participation Laboratory			ELEC 11	Technical Applications
CHLD 69	Early Childhood Development	2.0	CSU		in Microcomputers
	Field Work Seminar				<u>or</u>
CHLD 75	Supervising Adults in Early	2.0		CISB 15	Microcomputer Applications
	Childhood Settings			ELEC 50A	Electronic Circuits (DC)
CHLD 91	Early Childhood Development	1.0	CSU	ELEC 50B	Electronic Circuits (AC)
	Field Work			ELEC 56	Digital Electronics
					Total Units

1: 3.0 in nent & Art Media 3.0 dren tor Development 3.0 CSU dren cing and Math 3.0 dren 39.0 etworking

ing Technology Level I and II e students to become computer hnicians. Courses required for le foundations in basic electricity ystems, computer service and ration for the A+ certification CompTIA and offered at testing ntry. Level I certificate students aintain, troubleshoot, and repair /ith further preparation leading udents will ready themselves for rver+, and Security+ ustry certifications are enchmarks for the computer and her, students will have requisite ditional I.T. certifications and networking fields. e Certificate

4.0

4.0

4.0

2.0

3.0 CSU

4.0 CSU,UC

4.0 CSU

4.0 CSU

4.0 CSU

29.0 - 30.0

ELEC 74

EST 54

Microprocessor Systems

Cabling and Wiring Standards

Computer and Networking Technology - Level II **Electronics and Computer Technology Department** Certificate T0726 The Computer and Networking Technology Level I and II

certificate programs prepare students to become computer and networking service technicians. Courses required for the Level I certificate provide foundations in basic electricity and electronics, operating systems, computer service and troubleshooting, and preparation for the A+ certification examination sponsored by CompTIA and offered at testing centers throughout the country. In addition to the Level I certificate requirements, students seeking the Level II certificate cover computer networks, servers, and customer relations, and will take preparatory courses for the CompTIA Network+, Server+, and Security+ certification exams. These industry certifications are recognized worldwide as benchmarks for the computer and networking technician. Further, students will have requisite skills upon which to seek additional I.T. certifications available for the computer and networking fields. Requirements for the Certificate Required courses: Completion of the Computer and Networking Technology -Level I coursework, as follows: CNET 50 PC Servicing 4.0 CNET 52 4.0 PC Operating Systems CNET 54 PC Troubleshooting 4.0 CNET 60 A+ Certification Preparation 2.0 3.0 CSU ELEC 11 Technical Applications in Microcomputers or 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 Plus the following courses: Level II as follows: CNET 56 **Computer Networks** 4.0 CNET 62 Network+ Certification Preparation 2.0 CNET 64 Server Certification Preparation 2.0 CNET 66 Security Certification Preparation 2.0 TECH 60 **Customer Relations** 1.0 for the Technician **Total Units** 43.0 - 44.0 **Recommended Electives:** ELEC 51 **Electronic Devices**

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	3.0	
	with Photoshop		
GRAP 14	Digital Color Management	3.0	
GRAP 16	Digital Image Design	3.0	
	with Illustrator & Freehand		
GRAP 20	Applying Photos	3.0	
	and Images in Multimedia		
GRAP 28	Digital Portfolio	2.0	
PHOT 10	Beginning Photography	3.0	CSU,UC
PHOT 17	Photocommunication	3.0	
	Total Units	24.0	
Recommen	nded Electives:		
AHIS 1	Understanding the Visual Arts		
	<u>or</u>		
ARTB 1	Understanding the Visual Arts		
COMP 10	Operating the Macintosh Comp	uter	
GRAP 18	Advanced Image Design		
	- 3D Modeling Techniques		
GRAP 24	Work Experience in Computer (Graphic	S
PHOT 1	Laboratory Studies:		
	Black and White Photography		
PHOT 2	Laboratory Studies: Color Photo	ography	1
PHOT 4	Digital Cameras and Compositi	on	

Computer Systems Technology Electronics and Computer Technology Department Certificate L0924

In addition to courses in electronics fundamentals, the Computer Systems Technology certificate encompasses advanced coursework in computer systems circuitry, including microcontrollers and microprocessors. This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for the N.A.R.T.F. 4th Class Technician license. **Requirements for the Certificate**

Required courses:

	Total Units	29.0	
	for the Technician		
TECH 60	Customer Relations	1.0	
ELEC 74	Microprocessor Systems	4.0	CSU
	and Fabrication	3.0	CSU
ELEC 61	Electronic Assembly		
ELEC 56	Digital Electronics	4.0	CSU
ELEC 51	Electronic Devices	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
	and Troubleshooting		
ELEC 12	Computer Simulation	2.0	
	in Microcomputers		
ELEC 11	Technical Applications	3.0	CSU

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** *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		
INSP 87	Fundamentals of Construction	3.0			
	Inspection				
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

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 3.0 CSU.UC Business Law, or 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 Financial Planning 3.0 CSU FCS 80

3.0 CSU

or

BUSA 71

Financial Planning

FCS 91	Work Experience in Family and Consumer Sciences	1.0				
	<u>or</u>					
BUSL 36	Paralegal Internship	1.0				
PLUS						
Select two (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 delinquency. The discipline addresses definitions, causation, prevention, discovery, procedures, treatment and rehabilitation, quantification, and research in both criminal and civil aspects. This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Certificate *Required courses:*

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

CORS 35	Interviewing and Counseling	3.0
	in Corrections	
CORS 40	Crime and Delinquency	3.0
CORS 45	The Violent Offender	3.0
	Total Units	30.0
Recommen	nded Electives:	
PE-F 50	Physical Skills Preparation	
	for Law Enforcement and Fire S	Science
PE-F 51	Agility Testing Preparation	
	for Law Enforcement and Fire S	Science
PE-F 52	Fitness and Conditioning for La	w Enforcement,
	Fire Science and Forestry	
SPAN 66	Spanish for Fire and Police Pers	sonnel

Digital Photographic Technician Commercial and Entertainment Arts Department Certificate L0300

This certificate program is designed to give students specific skills to prepare them for employment in the commercial photographic industry as a digital technician, digital assistant, digital imaging specialist, or photography assistant.

Requirements for the Certificate

GRAP 9	Digital Color Management	3.0
GRAP 10	Photo Editing with Photoshop	3.0
PHOT 10	Basic Digital and Film Photography	3.0
PHOT 11	Professional Photography	4.0
PHOT 14	Commercial Lighting	3.0
PHOT 20	Color Photography	3.0
PHOT 30	Commercial/Illustrative	3.0
	Photography	
	Total Units 2	5.0

Recommended Electives:

- CISB 16 Macintosh Applications GRAP 12 Photoshop Imagery Extended
- PHOT 1 Laboratory Studies: Black and White Photography
- PHOT 29 Studio Business Practices for Commercial Artists

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.

2.0 ((1)

Requirements for the Certificate *Required courses:*

ELEC 11	Technical Applications	3.0	CSU		
	in Microcomputers				
CISB 15	<u>Or</u> Microcomputer Applications	4.0	CSU,UC		
EST 50	Microcomputer Applications Flectrical Fundamentals	4.0 4.0	C30,0C		
E31 30	for Cable Installations	4.0			
EST 52	Fabrication Techniques	4.0			
EST JZ	for Cable Installations	4.0			
EST 54	Cabling and Wiring Standards	4.0			
		4.0			
	ollowing courses:				
EST 56	Home Theater,	4.0			
FCT (2	Home Integration, & Home Sec		/stems		
EST 62	Electronic Troubleshooting - I Customer Relations	4.0			
TECH 60		1.0			
PLUS	for the Technician				
	Select one (1) course from:				
EST 64	Electronic Troubleshooting - II	4.0			
EST 70	C-7 Low Voltage Systems	2.0			
20170	License Preparation	2.0			
	Total Units	26.0	- 29.0		
Recommen	nded Electives:				
ELEC 61	Electronic Assembly and Fabric	ation			
ELEC 62	Advanced Surface Mount Assem		l Rework		
Electron	ics and Computer				
- Engine	ering Technology				
	and Computer				
-	y Department				
Certificate	T0906				
The Electronics and Computer Engineering Technology (ECET) certificate program prepares individuals either for initial employment or for enhancement of existing skills in the electronics field, or for transfer into B.S. programs in					

Electronics Technology or Industrial Technology offered in the CSU system. Required courses for the certificate — many of which articulate directly to their equivalents at the CSUs — are the same as for the ECET A.S. degree program except for the college General Education requirement. In addition to exposing students to core topics such as components and circuits, the program includes coursework in advanced areas including microcontrollers and interfacing, communications, and industrial electronic controls. Nearly all laboratories have new, state-of-the-art equipment to provide students with quality, hands-on learning experiences.

Students completing the ECET certificate program possess ample skills to make them versatile employees. Typical technician-level job classifications include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician, and electronics technician. All students completing the certificate program are automatically eligible to receive, without further examination, the 4th class technician license from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.).

Requirements for the Certificate

	Required courses:				
	ELEC 11	Technical Applications	3.0	CSU	
		in Microcomputers			
	ELEC 12	Computer Simulation	2.0		
		and Troubleshooting			
	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	3.0	CSU	
		and Fabrication			
	ELEC 74	Microprocessor Systems	4.0	CSU	
rk	TECH 60	Customer Relations	1.0		
_		for the Technician			
		Total Units	44.0		
	Recommen	ded Electives:			
	CISP 11	Programming in Visual Basic			
	EDT 11	Technical Engineering Drawing	J I		
	ELEC 62	Advanced Surface Mount Asser	nbly		
()		and Rework			
	ELEC 76	Radio Telephone Communicati	ons		
	PHYS 2AG	General Physics			

Electronics Communications Electronics and Computer Technology Department Certificate T0904

In addition to courses in electronics fundamentals, the Electronics Communications certificate program encompasses the study of both wire-based and wireless forms of analog and digital communications systems. Among the topics covered are amplitude and frequency modulation, multiplexing, antennas, transmission lines, and radio-wave propagation, as well as microwave systems, including radar and satellite operations.

This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a oneyear certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for the N.A.R.T.E. 4th Class Technician license.

Requirements for the Certificate *Required courses:*

ELEC 11	Technical Applications	3.0	CSU
	in Microcomputers		
ELEC 12	Computer Simulation	2.0	
	and Troubleshooting		
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	3.0	CSU
	and Fabrication		
TECH 60	Customer Relations for the Techni	cian	1.0
	Total Units 3	33.0	

Electronics Technology Electronics and Computer Technology Department Certificate L0905

This one-year program covers the fundamentals of electronics technology. These core courses provide the necessary skills for those seeking entry-level employment as electronics technicians without areas of specialization. Also included is a course in customer-relations training.

Requirements for the Certificate Required courses:				
ELEC 11	Technical Applications in Microcomputers	3.0	CSU	
ELEC 12	Computer Simulation and Troubleshooting	2.0		
ELEC 50A	Electronic Circuits (DC)	4.0	CSU	
ELEC 50B	Electronic Circuits (AC)	4.0	CSU	
ELEC 51	Electronic Devices	4.0	CSU	
ELEC 56	Digital Electronics	4.0	CSU	
ELEC 61	Electronic Assembly and Fabrication	3.0	CSU	
TECH 60	Customer Relations for the Technician	1.0		
	Total Units	25.0		

Electronics: Industrial Systems Electronics and Computer Technology Department Certificate T0908

In addition to courses in electronics fundamentals, the Industrial Systems curriculum encompasses advanced coursework in industrial electronics, including electronic devices for industrial and motor controls. The curriculum culminates in the study of programmable logic controls (PLCs) using the Allen-Bradley series of PLCs running Windows ladder logic software.

This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for the N.A.R.T.E. 4th Class Technician license.

Requirements for the Certificate Required courses:						
ELEC 11	Technical Applications	3.0	CSU			
	in Microcomputers					
ELEC 12	Computer Simulation	2.0				
	and Troubleshooting					
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	3.0	CSU			
	and Fabrication					
TECH 60	Customer Relations	1.0				
	for the Technician					
	Total Units	32.0				

Emergency Medical Technician - Paramedic (EMT-P) 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 co	ourses:	
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	5.0
EMS 60	EMS Theory for Paramedics	8.5

EMS 70	Paramedic Clinical Internship	4.0
EMS 80	Paramedic Field Externship	9.5
	Total Units	41.00
Recommen	ded Electives:	
ADJU 1	The Administration of Justice S	ystem
FIRE 1	Fire Protection Organization	
PSYC 1A	Introduction to Psychology	
	<u>or</u>	
PSYC 1AH	Introduction to Psychology	
SOC 1	Sociology	
	<u>or</u>	
SOC 1H	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.

EMT Program Readmission Policy

If the student fails any of the co-requisite courses, EMS 10 - EMS 60, he/she will be dropped from the programs. If the student wishes to repeat the program, a *Success Plan and Contract* will be developed with the faculty to increase the student's chances of success prior to re-entry. If the student withdraws or is dismissed from the program a second time, he/she will not be allowed to reenter the Paramedic Program at Mt. SAC.

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.
- 2) Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of

pre-hospital field experience as an EMT-I (approximately 1,200 hours) within the last 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.
- 6) Successful completion of EMS 1 Fundamentals for Paramedics.
- 7) 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 terminolog 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: anatom 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/o transferring patients
- Possess the ability to perform fine motor movement with hands and fingers
- Possess the ability for extremely heavy effort (lift an carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify color (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 disease
- Exposed to hazardous agents, body fluids and waste
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Handle emergency or crisis situations
- Subject to many interruptions

		act with patients having different religiou	us,	naine	ering Design Techno	loa		EDT 12	Technical Engineering Drawing I		
0		re, ethnicity, race, sexual orientation,		Engineering Design Technology - Level II		EDT 14 Mechanical Design		3.0 CSU			
		nological and physical disabilities, and un	uera –		ure and Engineering			FDT 44	- Geometric Dimensioning and T		5
	wide variety of circumstances				epartment			EDT 16	Basic CAD and Computer	4.0	CSU
	Requi	ires decisions/actions related to end of lif	c ·	-	e T0915			EDT 40	Applications		
	Expos	sure to products containing latex	The	e Fnainee	ring Design Technology Level II Cer	tificate	sis	EDT 18	Engineering CAD Applications		CSU
	Fnalish La	nguage Skills:			provide focused technical groundir			MFG 11	Manufacturing Processes I	2.0	CSU
	-	roficiency in English is not a criteria for admi	stu	idents to	parametric design technology. This	certific	cate		<u>Oľ</u> Elestrovis (DC)	4.0	<i>cc</i> 11
		rsing program, students are encouraged to b	a abla ella		lents to pursue competitive employ	yment	in the	ELEC 50A	Electronic Circuits (DC)	4.0	CSU
gy,		rite and read English to complete classes suc		hnical de	sign field, beyond entry level.			Required c			
d		re safety for themselves and for others.	Re	equirer	nents for the Certificate			Level II as t			~~~
ns.		,		quired co				EDT 20	Technical Descriptive Geometry		CSU
	Engine	ering Design Technology		vel I as fo				EDT 24	Engineering CAD 3-D Solids	3.0	CSU
my	- Level			T 11	Technical Engineering Drawing I				and Surfaces		
		ture and Engineering		T 12	Technical Engineering Drawing I			ELEC 50B	Electronic Circuits (AC)		CSU
		Department	ED	T 14	Mechanical Design		CSU	MFG 11	Manufacturing Processes I	2.0	CSU
	Certificat	te L0900			- Geometric Dimensioning and T		5		<u>Oľ</u> Elestrovis Circuits (DC)	4.0	<i>cc</i> 11
	The Engine	eering Design Technology Level I Certifica	ate is ED	T 16	Basic CAD and Computer	4.0	CSU	ELEC 50A	Electronic Circuits (DC)	4.0	CSU
l/or		o prepare students for entry-level emplo		T 10	Applications	4.0	6611		llowing courses:		
		nical and computer-aided drafting desig	yn l	T 18	Engineering CAD Applications		CSU	EDT 26	Civil Engineering Technology	3.0	CSU
nts		n completion of the Level I Certificate, st	uuuuuu	G 11	Manufacturing Processes I	2.0	CSU		and CAD		
		pared in fundamental working practices the technical design field.		EC 50A	<u>Oľ</u> Electropic Circuits (DC)	4.0	CSU	EDT 28	Engineering CAD 3-D	3.0	CSU
and		5			Electronic Circuits (DC)	4.0	CSU		Illustration/Animation		
	-	ments for the Certificate			llowing courses:				Total Units	37.0	- 41.0
	Required co EDT 11		6611	T 20	Technical Descriptive Geometry		CSU	_	••		
, 	EDT 12	Technical Engineering Drawing 1 3.0 Technical Engineering Drawing II 3.0		T 24	Engineering CAD 3-D Solids	3.0	CSU		Management		
	EDT 12 EDT 14	Mechanical Design 3.0	CCU		and Surfaces		6611		Administration Departme	nt	
	LUI 14	- Geometric Dimensioning and Tolerand		EC 50B	Electronic Circuits (AC)		CSU	Certificat			
ors	EDT 16	Basic CAD and Computer 4.0	5 1011	G 11	Manufacturing Processes I	2.0	CSU		ments for the Certificate		
	LUTIO	Applications			<u>Or</u> Flantmaria Ginavita (DC)	4.0	CCU	Required of			
ore	EDT 18	Engineering CAD Applications 4.0		EC 50A	Electronic Circuits (DC) Total Units		CSU	BUSA 11	Fundamentals of Accounting	3.0	CC 11
	PLUS	Engineering end Applications 1.0			lotal Units	31.0	- 35.0	BUSR 50	Real Estate Principles		CSU
		(1) course from:			avin a Daaian Taabu a		-	BUSR 51 BUSR 76	Legal Aspects of Real Estate Escrow Procedures I	3.0 3.0	
	ELEC 50A	Electronic Circuits (DC) 4.0		ngine Level	ering Design Techno	logy		BUSR 70 BUSR 77	Escrow Procedures I	3.0 3.0	
	MFG 11	Manufacturing Processes I 2.0	cc					CISB 15	Microcomputer Applications		CSU,U
	MIGTI	Total Units 19.0 -	7.0	sian D	ure and Engineering epartment				Total Units	19.0	,
ase,	Considering Inf			-	e T0916					19.0	
,	Special Inf		The	e Engine	ering Design Technology Level III	Certif	icate				
ses		nterested in pursuing transfer and a Bac			the civil and structural design fie		icute				
	Degree in Engineering of Engineering recimology are		are and		g three-dimensional illustration						
		nts for transfer and appropriate courses.	201	imation.	This certificate allows students to	o pursi	ue				
		nts vary depending on specialty and ins	l om	nploymer	nt in the civil design fields.						
tes				Requirements for the Certificate							
	and may in	nclude areas such as math at the levels o		quirei	icity for the certificate						
		trigonometry at a minimum. See the M		quired co							
	calculus or		It. SAC Rea a list of Lev	-	ourses:						

EDT 11

Technical Engineering Drawing I 3.0 CSU

transferable engineering courses.

ion Department

e Certificate

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

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:*

nequireu co	Jurses.			
CHLD 1	Child, Family and Community	3.0	CSU,UC	and p
CHLD 5	Principles/Practices	3.0	CSU	that s
	in Child Development Programs	;		contri
CHLD 6	Survey of Child Development	3.0	CSU	
	Curriculum			Requ
CHLD 10	Child Growth and Development	3.0	CSU,UC	Requ i FASH
	<u>or</u>			FASH
CHLD 10H	Child Growth and Development	3.0	CSU,UC	FASH
	- Honors			FASH
CHLD 92	Family Child Care	3.0		FASH
Plus the fo	llowing courses:			газп
CHLD 64	Health, Safety and Nutrition	3.0	CSU	FASH
	of Young Children			
CHLD 68	Children with Special Needs	3.0	CSU	
CHLD 84	Guidance and Discipline	1.0	CSU	Recor
	in Child Development Settings			FASH
PLUS	1 5			FASH
Select one ((1) course from:			FASH
CHLD 50	Multicultural Education:	3.0		FASH
	Anti-Bias Perspective			FASH
CHLD 66	Early Childhood Development	2.0	CSU	FASH
	Observation			FASH
CHLD 66L	Early Childhood Development	1.0	CSU	
	Observation Laboratory			
CHLD 72	Teacher, Parent	3.0		
	and Child Relationships			
CHLD 73	Infant/Toddler Care	3.0	CSU	
	and Development			
	Total Units	23.0	- 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:*

uired co	urses:		
8	Introduction to Fashion	3.0	CSU
H 10	Clothing Construction I	3.0	CSU
H 15	Fashion and Identity	3.0	CSU
H 17	Textiles	3.0	
125	Fashion Computer -Assisted Drawing	3.0	
H 30	Fashion Design	3.0	
	and Product Development I		
	Total Units	18.0	
ommen	ded Electives:		
124	Fashion Patternmaking by Cor	nputer	
126	Fashion Computer-Assisted De	esign	
H 35	Special Topics in Fashion		
H 81	Work Experience		
H 90	Field Studies		
H 91	Field Studies - New York		
192	Field Studies - Fashion Capital	S	

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 l as follows

FASH 92

Level I as t	Level I as follows:					
FASH 8	Introduction to Fashion	3.0	CSU			
FASH 10	Clothing Construction I	3.0	CSU			
FASH 15	Fashion and Identity	3.0	CSU			
FASH 17	Textiles	3.0				
FASH 25	Fashion Computer - Assisted Drawin	g 3.0				
FASH 30	Fashion Design	3.0				
	and Product Development I					
Plus the fo	llowing courses:					
FASH 9	History of Costume and Design	3.0	CSU			
FASH 12	Clothing Construction II	3.0				
FASH 20	Illustration for Fashion and	3.0				

FASH 20	Illustration for Fashion and Costume Design	3.0
FASH 21	Patternmaking I	3.0
FASH 22	Fashion Design by Draping	3.0
FASH 23	Patternmaking II	3.0
FASH 24	Fashion Patternmaking	3.0
	by Computer	
FASH 31	Fashion Design	3.0
	and Product Development II	
FASH 32	Fashion Design	3.0
	and Product Development III	
	Total Units	45.0
Recommen	ded Electives:	
FASH 26	Fashion Computer-Assisted Des	sign
FASH 35	Special Topics in Fashion	
FASH 81	Work Experience	
FASH 90	Field Studies	
FASH 91	Field Studies - New York	

Field Studies - Fashion Capitals

Fashion Merchandising - Level I Consumer Science and Design Technologies Certificate L0314

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 o	ourses:		
FASH 8	Introduction to Fashion	3.0	CSU
FASH 10	Clothing Construction I	3.0	CSU
FASH 15	Fashion and Identity	3.0	CSU
FASH 17	Textiles	3.0	CSU,UC
FASH 25	Fashion Computer-Assisted	3.0	
	Drawing		
FASH 30	Fashion Design	3.0	
	and Product Development I		
	Total Units	18.0	
Recommen	ded Electives:		
FASH 81	Work Experience in Fashion		
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 coursework (18 units) as follows: **Requirements for the Certificate Required courses:**

Level I as follows:

FASH 8	Introduction to Fashion	3.0	CSU
FASH 10	Clothing Construction I	3.0	CSU
FASH 15	Fashion and Identity	3.0	CSU
FASH 17	Textiles	3.0	CSU,UC
FASH 25	Fashion Computer-Assisted	3.0	
	Drawing		
FASH 30	Fashion Design	3.0	
	and Product Development I		

CSU CSU

CSU

CSU

CSU

CSU

Plus the fo	llowing courses:	
Level II as f	follows:	
FASH 9	History of Costume and Design	3.0
FASH 62	Retail Store Management and Merchandising	3.0
	<u>Oľ</u> Datail Stava Managamant	2.0
BUSS 50	Retail Store Management and Merchandising	3.0
FASH 63	Advertising and Promotion	3.0
	<u>or</u>	
BUSS 33	Advertising and Promotion	3.0
FASH 66	Visual Merchandising Display	3.0
	Total Units	30.0
Recommen	ded Electives:	
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 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

and Systems 3.0 CSU FIRE 4 **Building Construction** for Fire Protection FIRE 5 Fire Behavior and Combustion 3.0 CSU FIRE 6 Hazardous Materials/ICS 3.0 PLUS

Select two (2) courses from:

FIRE 7 Fire Fighting Tactics and Strategy 3.0 CSU 3.0 CSU FIRE 8 Fire Company Organization and Management 3.0 CSU FIRE 9 Fire Hydraulics FIRE 10 3.0 CSU Arson and Fire Investigation Fire Apparatus and Equipment 3.0 CSU FIRE 11 4.5 CSU FIRE 12 Wildland Fire Control

cutt				
FIRE 86	Basic Fire Academy	14.5	HRM 53	Dii
PE-F 53	Physical Training	2.5 CSU		Ma
	for the Basic Fire Academy		HRM 54	Ba
	Total Units	27.5 - 38.0	HRM 61	M
Recomme	nded Electives:		HRM 62	Ca
PE-F 50	Physical Skills Preparation for A	dministration	HRM 91	W
12150	of Justice and Fire Technology	anningtration		in
PE-F 51	Agility Testing Preparation for	Administration	NF 20	Pri
	of Justice and Fire Technology			To
PE-F 52	Fitness and Conditioning for Ac		·	
	Justice, Fire Technology, and Fo	restry	Hospit	tali
			Manag	gen
Horse	Ranch Management		Consum	er S
Agricult	ural Sciences Department		Certifica	ite L
Certifica	te L0102		This certif	icate
	cate program is designed to give			
	orse ranches and agriculture sale		restaurant	t.
	are applicable for degree requir		Require	
-	ments for the Certificate		Required	
Required			HRM 51	Int
AGAB 20	Microcomputer Applications	3.0 CSU,UC	HRM 53	Di
1616 50	in Agriculture		11014.54	M
AGAG 59	Work Experience in Agriculture		HRM 56	Ma
AGAN 2	Animal Nutrition	3.0 CSU		Pe
AGAN 94	Animal Breeding	3.0 4.0 CSU,UC	HRM 64	Но
AGLI 16	Horse Production	4.0 (50,00	HRM 66 HRM 70	Ho Int
AGLI 18	<u>or</u> Horse Ranch Management	4.0 CSU	HRM 70 HRM 91	W
AGLI 18 AGLI 19	Horse Hoof Care	4.0 CSU 2.0 CSU	111/01/21	in
AGLI 15 AGLI 96	Animal Sanitation	3.0 CSU		То
	and Disease Control	5.0 (50		10
AGLI 97	Artificial Insemination	2.0	Hospit	tali
	of Livestock	2.0	Manae	
	Total Units	21.0 - 24.0	Consum	
			- Certifica	
Hospit	ality: Catering		The Hospi	tality
	er Science and Design Tecl	hnologies	Certificate	
Certifica	te L1395	-	field as a	mana
The Hospi	tality: Catering Certificate will pre	epare students	establishn	nent.
	g and banquet job opportunities		Require	mei
	industry. The program emphasiz		Required	cours
	food preparation, service and cat	ering	HRM 51	Int
managem			HRM 52	Fo
	ments for the Certificate		HRM 53	Di
Required				M
HRM 51	Introduction to Hospitality	3.0 CSU	HRM 54	Ва
HRM 52	Food Safety and Sanitation	1.5 CSU		

HRM 53	Dining Room Service	3.0	CSU
	Management		
HRM 54	Basic Cooking Techniques		CSU
HRM 61	Menu Planning		CSU
HRM 62	Catering		CSU
HRM 91	Work Experience	1.0	CSU
	in Restaurant/Hospitality		
NF 20	Principles of Foods with Lab		CSU
	Total Units	20.5	
Manag	ality: Hospitality ement - Level II r Science and Design Tec e L1325	chnolog	gies
This certific	ate prepares the holder to ent	er the	
	field as a manager-trainee in a		r
Requirer Required co	nents for the Certificate ourses:	9	
HRM 51	Introduction to Hospitality	3.0	CSU
HRM 53	Dining Room Service Management	3.0	CSU
HRM 56	Management of Hospitality Personnel and Operations	3.0	CSU
HRM 64	Hospitality Financial Accounti	ng 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	19.0	
Manag	ality: Restaurant ement - Level II r Science and Design Tec e L1319	chnolog	gies
Certificate p	lity: Restaurant Management orepares the holder to enter th nanager-trainee in a in a food ent.	ne restau	
Requirer Required co	nents for the Certificate	9	
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 57Restaurant Cost Control3.0CSUHRM 61Menu Planning3.0CSU	NF 28	Cultural and Ethnic Foods Total Units	3.0 19.5	CSU,U
	HRM 57 HRM 61	Restaurant Cost Control Menu Planning		

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).

Requirements for the Certificate Required courses:

<i></i>			
CHLD 1	Child, Family and Community	3.0	
CHLD 5	Principles/Practices	3.0	CSU
	in Child Development Programs		
CHLD 6	Survey of Child Development		CSU
	Curriculum		
CHLD 10	Child Growth and Development	3.0	CSU,UC
	or		
CHLD 10H	Child Growth and Development	3.0	CSU,UC
	- Honors		
CHLD 73	Infant/Toddler Care	3.0	CSU
	and Development		
CHLD 85	Infants At Risk	3.0	
PLUS			
Select four	(4) courses from:		
CHLD 50	Multicultural Education:	3.0	
	Anti-Bias Perspective		
CHLD 61	Language Arts & Art Media	3.0	
	for Young Children		
CHLD 62	Music and Motor Development	3.0	CSU
	for Young Children		
CHLD 64	Health, Safety and Nutrition	3.0	CSU
	of Young Children	5.0	CJU
CHLD 72		2.0	
CILD / Z	Teacher, Parent	3.0	
	and Child Relationships		
	Total Units	30.0	

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Programs of Study Leading to a Certificate strengthen career perspectives. This certificate may aid in ID 38 Internship in Interior Design 2.0 CSU **Interior Design Kitchen and Bath** the student's search for an intermediate position as an (1 - 3 unit course, 2 units required)Specialization assistant to a designer, library coordinator, or a ID 39 Interior Design Studio II 3.0 CSU PROGRAMS OF STUDY LEADING TO A CERTIFICATE **Consumer Science and Design Technologies Required courses for Kitchen and Bath Specialization:** Certificate T0306 ID 40 Kitchen and Bath Studio I 3.0 CSU The Kitchen and Bath Specialization coursework builds upon 3.0 CSU ID 41 Kitchen and Bath Studio II Completion of the Interior Design: Level I coursework as the Level III Certificate to provide students with specialized Internship in Kitchen and Bath ID 48 2.0 skills in the area of Kitchen and Bath Design and is (1-3 unit course, 2 units required) Introduction to Interior Design 3.0 CSU accredited by the national Kitchen and Bath Association. Total Units: 58.0 Students will strengthen career perspectives and develop 3.0 CSU **Elective courses:** work to incorporate into a professional portfolio. This 3.0 CSU certificate may aid in the student's search for an ID 50 Interior Design Specialized Studio

intermediate position as an assistant to a Kitchen and Bath And completion of the Interior Design: Level II Designer. Students completing this certificate and meeting the eligibility requirements will guality to sit for the 3.0 academic portion of the Certified Kitchen Designer (CKD) and 3.0

Certified Bath Designed (CBD) upon graduation to earn the Associate Kitchen and Bath Designer (AKBD) designation.

Requirements for the Certificate Completion of the Interior Design: Level I coursework as fall

follows:			
ID 10	Introduction to Interior Design	3.0	CSU
ID 12	Interior Materials and Products	3.0	CSU
ID 14	History of Furniture	3.0	CSU
	and Decorative Arts		
And comple	tion of the Interior Design: Level	11	
coursework	as follows:		
ID 20	Color and Design Theory I	3.0	
ID 21	Color and Design Theory II	3.0	
ID 22	Design Drawing	3.0	
	for Interior Design		
ID 23	Computer Aided Drawing	3.0	
	for Interior Design I		
ID 25	Codes and Specifications for Interior Design	3.0	
ID 26	Space Planning for Interior Design	3.0	
ID 27	Rapid Visualization	3.0	
ID 29	Interior Design Studio	3.0	
And comple	tion of the required Interior Desi	ign: L	evel III.
coursework	as follows:		
ID 31	Building Systems	3.0	CSU
	for Interior Design		
ID 32	Lighting Design	3.0	CSU

Computer Aided Drawing

for Interior Design II

Professional Practices

for Interior Design

Business Practice

for Interior Design

3.0 CSU

3.0 CSU

3.0 CSU

ID 52 Independent Studies in Interior Design

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	

Interior Design: Level II **Consumer Science and Design Technologies** Certificate T0304

The Interior Design: Level II Certificate builds upon the Level I coursework to provide students with intermediate skills that will lead to a career in interior design. There is a focus on design process including drawing and presentations skills, model-making, sketching, computer applications, the planning of space and studio design. Students will prepare professional portfolios to strengthen career perspectives. This certificate may aid in

specialization in the field of interior design.

History of Furniture

and Decorative Arts

Color and Design Theory I

Color and Design Theory II

Computer Aided Drawing

Codes and Specifications

for Interior Design I

for Interior Design

for Interior Design

Rapid Visualization

Building Systems

for Interior Design

for Interior Design II

for Interior Design

Business Practices for Interior Design

Internship in Interior Design

Interior Design Studio II

Total Units

(1 - 3 unit course, 2 units required)

Interior Design Specialized Studio

Independent Studies in Interior Design

Professional Practices

Computer Aided Drawing

Lighting Design

Interior Design Studio I

And completion of the required Interior Design: Level III

Space Planning

Design Drawing for Interior Design 3.0

3.0

3.0

3.0

3.0

3.0

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

2.0 CSU

3.0 CSU

50.0

ID 34

ID 36

ID 37

Interior Materials and Products

Requirements for the Certificate

Required courses:

coursework as follows:

coursework as follows:

or

follows:

ID 10

ID 12

ID 14

ID 20

ID 21

ID 22

ID 23

ID 25

ID 26

ID 27

ID 29

ID 31

ID 32

ID 34

ID 36

ID 37

ID 38

ID 39

ID 50

ID 52

Elective courses:

Require	ments for the Certificate		
	l courses:		
Completi	on of the Interior Design: Level I coursev	vork as	follo
ID 10	Introduction to Interior Design	3.0	CSU
ID 12	Interior Materials and Products	3.0	CSU
ID 14	History of Furniture and Decorative Arts	3.0	CSU
Required	l courses for Level II as follows:		
ID 20	Color and Design Theory I	3.0	
ID 21	Color and Design Theory II	3.0	
ID 22	Design Drawing for Interior Design	3.0	
ID 23	Computer Aided Drawing for Interior Design I	3.0	
ID 25	Codes and Specifications for Interior Design	3.0	
ID 26	Space Planning for Interior Design	3.0	
ID 27	Rapid Visualization	3.0	
ID 29	Interior Design Studio I	3.0	
	Total Units	33.0	
Elective	courses:		
ID 50	Interior Design Specialized Studi	0	
ID 52	Interior Design Laboratory Studi	es	

The Interior Design: Level III Certificate builds upon the Level II coursework to provide students with advanced skills that will enhance their Interior Design careers. There is a focus on building systems, lighting, advanced computer applications, business practices and studio design. Students will prepare professional portfolios to

			1			1					
Landse	ape and Park Mainte	nanco	AGOR 72	Landscape Hardscape Application		AGOR 39	Turf Grass Production	3.0 CSU		nded Electives:	
	iral Sciences Department	enance	AGOR 73	Landscaping Laws, Contracting	g 3.0 CSU		and Management		PE-F 50	Physical Skills Preparation	
Certificat	•			And Estimating		AGOR 50	Soil Science and Management			for Law Enforcement and Fire S	Science
		atu danta hasia		Total Units	33.0	AGOR 51	Tractor and Landscape	3.0 CSU	PE-F 51	Agility Testing Preparation	
	cate program is designed to give e maintenance of landscape of pa						Equipment Operations			for Law Enforcement and Fire S	
	applicable for degree requireme			ape Equipment Tec		AGOR 62	Landscape Irrigation	3.0 CSU	PE-F 52	Fitness and Conditioning for La	iw Enforcement,
	ments for the Certificate			Iral Sciences Department			- Design and Installation			Fire Science and Forestry	
Required of			Certifica	te T0117		AGOR 63	Landscape Irrigation Systems	3.0	SPAN 66	Spanish for Fire and Police Pers	onnel
AGOR 1	Horticultural Science	3.0 CSU		cate program is designed to giv		1000 (1	Management	2.0			
AGOR 24	Integrated Pest Management	3.0 CSU		ek employment in equipment r		AGOR 64	Landscape Irrigation	3.0		ock Management	
AGOR 29	Ornamental Plants - Herbaceou			ntal yards, and small equipmen		1000 74	- Drip and Low Volume	2.0.000	-	ural Sciences Department	
AGOR 30	Ornamental Plants	3.0 CSU,UC		are applicable for degree requi		AGOR 71	Landscape Construction	3.0 CSU	Certifica	te T0103	
	- Trees and Woody Shrubs	510 050,000		ments for the Certificate	2		Fundamentals			cate program is designed to give	
AGOR 39	Turf Grass Production	3.0 CSU	Required c				Total Units	27.0		estock management for employm	
	and Management		AGOR 1	Horticultural Science	3.0 CSU		_			ies on farms, ranches, and agricul	
AGOR 40	Sports Turf Management	3.0	AGOR 51	Tractor and Landscape	3.0 CSU		nforcement		services. Al	I courses are applicable for degre	e requirements.
AGOR 51	Tractor and Landscape	3.0 CSU		Equipment Operations			ervices Department			ments for the Certificate	
	Equipment Operations		AGOR 52	Hydraulics	3.0 CSU	Certifica	te T2102		Required c		
AGOR 62	Landscape Irrigation	3.0 CSU	AGOR 53	Small Engine Repair I	3.0 CSU		am is intended to prepare stude		AGAB 20	Microcomputer Applications	3.0 CSU,UC
	- Design and Installation		AGOR 54	Small Engine Repair II	3.0 CSU		nt following graduation. Studen			in Agriculture	
AGOR 63	Landscape Irrigation Systems	3.0	AGOR 55	Diesel Engine Repair	3.0 CSU		Degree (transfer program) shou		AGAG 1	Food Production, Land Use	3.0 CSU,UC
	Management		AGOR 56	Engine Diagnostics	3.0 CSU	a counselo	r or advisor to discuss transferat	oility of courses.		and Politics - A Global Perspect	tive
AGOR 71	Landscape Construction	3.0 CSU	AGOR 57	Power Train Repair	3.0		ments for the Certificate		AGAG 91	Agricultural Calculations	3.0
	Fundamentals		AGOR 71	Landscape Construction	3.0 CSU	Required o	ourses:		AGAN 1	Animal Science	3.0 CSU,UC
		30.0		Fundamentals		ADJU 1	The Administration	3.0 CSU,UC	AGAN 2	Animal Nutrition	3.0 CSU
			AGOR 72	Landscape Hardscape	3.0 CSU		of Justice System		AGAN 94	Animal Breeding	3.0
Landso	ape Design and Con	struction		Applications		ADJU 2	Principles and Procedures	3.0 CSU	AGLI 14	Swine Production	3.0 CSU
	iral Sciences Department	Struction	AGOR 91	Work Experience in Nursery	1.0 - 4.0		of the Justice System		AGLI 16	Horse Production	4.0 CSU,UC
Certificat				Operations		ADJU 3	Concepts of Criminal Law	3.0 CSU,UC	AGLI 17	Sheep Production	3.0 CSU
		atu danta basia		Total Units	31.0 - 34.0	ADJU 4	Legal Aspects of Evidence	3.0 CSU	AGLI 30	Beef Production	3.0 CSU
	cate program is designed to give ed in employment for a landscap					ADJU 5	Community Relations	3.0 CSU,UC	AGLI 34	Livestock Judging and Selectio	n 2.0 CSU,UC
	are applicable for degree require		Landso	ape Irrigation		ADJU 68	Administration	3.0	AGLI 96	Animal Sanitation	3.0 CSU
		cilicito.		Iral Sciences Department			of Justice Report Writing			and Disease Control	
Required of	ments for the Certificate		Certifica	-		PLUS			PLUS		
AGOR 1	Horticultural Science	3.0 CSU	This certifi	cate program is designed to giv	e students basic		r (4) courses from:			6) units from:	
AGOR 13		3.0 CSU 3.0 CSU		gation design, repair, installatio		ADJU 6	Concepts of Enforcement Servi	ces 3.0	AGOR 71	Landscape Construction	3.0 CSU
AGOR 15 AGOR 24	Landscape Design Integrated Pest Management	3.0 CSU 3.0 CSU		ent, and troubleshooting. A stuc		ADJU 13	Concepts of Traffic Services	3.0		Fundamentals	
AGOR 24 AGOR 29	Ornamental Plants - Herbaceou		employme	nt with a landscape contractor,	schools, parks,	ADJU 20	Principles of Investigation	3.0 CSU	BUSM 20	Principles of Business	3.0 CSU,UC
AGOR 29 AGOR 30	Ornamental Plants - Herbaceou	3.0 CSU,UC 3.0 CSU,UC		All courses are applicable for d		ADJU 38	Narcotics Investigation	3.0	BUSM 66	Small Business Management	3.0 CSU
AUUK 30		3.U (3U,UC	requireme	nts.		ADJU 59	Gangs and Corrections	3.0 CSU	BUSS 35	Professional Selling	3.0 CSU
	- Trees and Woody Shrubs		Require	ments for the Certificate	2	ADJU 74	Vice Control	3.0	BUSS 36	Principles of Marketing	3.0 CSU
AGOR 50	Soil Science and Management	3.0 CSU,UC	Required o			CORS 30	Ethnic Relations in Corrections		0000000	Total Units	42.0
AGOR 51	Tractor and Landscape	3.0 CSU	AGOR 1	Horticultural Science	3.0 CSU	CORS 40	Crime and Delinquency	3.0			12.0
	Equipment Operations	2.0. ((1)	AGOR 13	Landscape Design	3.0 CSU	CORS 45	The Violent Offender	3.0			
AGOR 62	Landscape Irrigation	3.0 CSU		. 2			Total Units	30.0			
1000 70	- Design and Installation	2.0. (CII)						50.0			
AGOR 71	Landscape Construction	3.0 CSU									
	Fundamentals										

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

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	cturing Dept.				Total Units	25.0	
Certificate	T0918			Montall	laalth Tashualamu		
manipulat metal wor	ry purpose of this program is to e ive skills required to enter the fie ker, machine operator, productior al technician, or machinist.	Id of n	nachine	- Psychia	lealth Technology tric Technician Technician Department T1279		
	ents for the Certificate				letion of the required courses,		
Required of					Technician will be awarded. In e student to take the California		
MFG 10	Mathematics and Blueprint Reading for Manufacturing	3.0		Examinatio	n for Psychiatric Technicians.	a State Doard	
MFG 11	Manufacturing Processes I	2.0	CSU		ents for the Certificate		
MFG 12	Manufacturing Processes II	2.0	CSU	Required co			
MFG 15	AutoCAD 2D	2.0		MENT 40	Interviewing and Counseling	3.0	
MFG 17	3-D CAD - Mechanical Modeling	2.0		MENT 56	Medical-Surgical Nursing	9.0	
MFG 19	Parametric Solid Modeling	2.0			for Psychiatric Technicians		
	for Manufacturing			MENT 56L	Clinical Experience	4.0	
MFG 38	MasterCAM I	2.0	CSU	MENT 58D	j.	4.0	
MFG 38B	MasterCAM II	2.0	CSU		Nursing and Pharmacology fo		
MFG 39	SurfCAM I	2.0	CSU	MENT 58L	Advanced Medical-Surgical	1.5	
MFG 39B	SurfCAM II	2.0	CSU		Nursing for Psychiatric Technic		
MFG 85	Manual Computerized	2.0	CSU	MENT 70	Introduction to Psychiatric	1.5	
	Numerical Control (CNC) Progra	mming]		Technology		
PLUS	-	-	-	MENT 70L	Introduction to Psychiatric	2.0	
Select two	(2) courses from:			145NT 70	Technology Clinical Technician		
MFG 25	Advanced Parametric Solid	2.0		MENT 72	Nursing Care of the	7.0	
	Modeling for Manufacturing				Developmentally Disabled Per		
MFG 27	Autodesk Inventor	2.0		MENT 72L	Nursing Care of the	5.5	
WELD 40	Introduction to Welding	2.0	CSU		Developmentally Disabled Per		
	Total Units	27.0		MENT 73L	Psychiatric Nursing	5.5	
					for Psychiatric Technicians Clin		
Marketi	ng Management			MENT 73T	Psychiatric Nursing	6.0	
	Idministration Department			DCVC 1A	for Psychiatric Technicians	3.0 CSU,UC	
Certificate	•			PSYC 1A	Introduction to Psychology	3.0 (30,00	
Requirem	ents for the Certificate			PSYC 1AH	<u>or</u> Introduction to Psychology - Ho	nors 3.0 CSU,UC	
Required of	courses:				Total Units	51.0	
BUSM 20	Principles of Business		CSU,UC	Special Info	ormation		
BUSM 61	Business Organization	3.0	CSU			maintair - "C"	
	and Management				n the program, students must rade in all courses.	maintain a "C"	
BUSS 35	Professional Selling		CSU	-			
BUSS 36	Principles of Marketing		CSU	The student will qualify to take the California State Board			
BUSS 50	Retail Store Management	3.0			n upon completion of all the a	DOVE COURSES.	
	and Merchandising			Entrance Requirements:			
BUSS 70	International Marketing Concep	ts 3.0		In addition	to meeting Mt. San Antonio G	ollege's	
BUSS 79	Work Experience	1.0		academic s	tandards for admission, application	ants must be in	

good standing and satisfy the following requirements:

Special Issues in Marketing

Microcomputer Applications

2.0

4.0 CSU,UC

BUSS 85

CISB 15

Manufacturing Technology

in Marketing Management

Aircraft Maintenance Tech

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.
- 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.
- 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.

- 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.
- q) 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 dearee 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 i) being licensed as a Psychiatric Technician.
- 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:

■ *Color vision:* ability to distinguish and identify colors (may be corrected with adaptive devices)

- *Distance vision:* ability to see clearly 20 feet or more
- *Depth perception:* ability to judge distance and space relationships
- *Near vision:* ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

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

English Language Skills:

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

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 Reauired courses: CISB 13 Microsoft Windows 2.0 CSU or Windows Operating System CISN 21 4.0 CSU 4.0 CSU,UC CISB 15 **Microcomputer Applications** CISB 21 Microsoft Excel 4.0

CISD 11	Database Management - Microsoft Access	4.0	CSU	AG			
CISW 11	Internet Technologies	4.0	CSU	AG			
CISB 51	Microsoft PowerPoint	3.0					
	Total Units	21.0	- 23.0	AG			
Nursery	Management			AG			
Agricultura	al Sciences Department						
Certificate	L0107			AG			
skills in pro goods in th	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.						
Requirem Required c	ents for the Certificate ourses:			Pe Ag			
AGOR 1	Horticultural Science	3.0	CSU	Ce			
AGOR 2	Plant Propagation/Greenhouse	3.0	CSU	Th			
	Management			in ski			
AGOR 24	Integrated Pest Management	3.0	CSU	wł			
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,UC	de			
AGOR 30	Ornamental Plants	3.0	CSU,UC	Re			
	- Trees and Woody Shrubs			Re			
AGOR 32	Landscaping and Nursery	3.0	CSU	AG			
	Management						
AGOR 39	Turf Grass Production	3.0	CSU	AG			
	and Management			AG			
AGOR 62	Landscape Irrigation	3.0	CSU	AG			
	- Design and Installation			AG			
AGOR 64	Landscape Irrigation	3.0		AG			
	- Drip and Low Volume			AG			
	Total Units	27.0		AG			
Dark Ma	nagoment			AG			
	nagement			AG			
5	Agricultural Sciences Department Certificate T0186						

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	3.0	CSU,UC
		- Trees and Woody Shrubs		
	AGOR 39	Turf Grass Production	3.0	CSU
		and Management		
	AGOR 51	Tractor and Landscape	3.0	CSU
-		Equipment Operations		
	AGOR 62	Landscape Irrigation	3.0	CSU
		- Design and Installation		
	AGOR 63	Landscape Irrigation	3.0	
:		Systems Management		
	AGOR 75	Urban Arboriculture	3.0	
		Total Units	30.0	
	Pet Scier	ICE I Sciences Department		
	Certificate			
	skills in pro	ate program is designed to give aduction and marketing of pets a and retail level. All courses are a uirements.	t the	
	Requireme	ents for the Certificate		
	Required co	ourses:		
	AGAB 20	Microcomputer Applications	3.0	CSU,UC
		in Agriculture		
	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 Bird	s 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: GRAP 10 Photoshop Imagery 3.0 PHOT 10 **Basic Digital** 3.0 CSU,UC and Film Photography PHOT 11 Professional Photography 4.0 PHOT 12 Photographic Alternatives 3.0 CSU,UC or PHOT 21 Exploring Color Photography 3.0 **Commercial Lighting** 3.0 PHOT 14 Fashion Photography PHOT 16 3.0 <u>or</u> PHOT 18 Portraiture 3.0 and Wedding Photography Photocommunication PHOT 17 3.0 PHOT 20 Color Photography 3.0 PHOT 28 Photography Portfolio 3.0 Development PHOT 29 **Studio Business Practices** 3.0 for Commercial Artists PHOT 30 Commercial 3.0 and Illustrative Photography **Total Units** 34.0 **Recommended Electives:** Understanding the Visual Arts AHIS 1 or ARTB 1 Understanding the Visual Arts Laboratory Studies: PHOT 1 Black and White 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	st
CISD 11	Database Management	4.0	CSU	0
	- Microsoft Access			bi sk
CISM 11	Systems Analysis and Design	3.5	CSU,UC	pi
CISN 21	Windows Operating System	4.0	CSU	
CISP 31	Programming in C++	4.0	CSU,UC	e
CISP 34	Advanced C++ Programming	4.0	CSU,UC	st
	Total Units	23.0		w
				fr

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
	- Microsoft Access		
CISM 11	Systems Analysis and Design	3.5	CSU,UC
CISP 11	Programming in Visual Basic	4.0	CSU,UC
CISP 14	Advanced Visual Basic	4.0	CSU,UC
	Programming		
	Total Units	19.0	

Radio Broadcasting: Behind-the-Scenes Commercial and Entertainment Arts Certificate T0606

The Behind-the-Scenes Radio Broadcasting Certificate is designed to prepare students for careers in the nonperformance aspects of the broadcasting industry. The program offers a balanced catalog of classes preparing tudents for both studio production and the business aspects of a commercial radio station, Internet, and satellite proadcast facilities. Emphasis is placed on solid production kills, creative applications, copywriting, studio producing, promotions, marketing and understanding Federal Communication Commission rules and laws to meet employment opportunities for radio stations, production studios, syndication companies and audio studios. Students vill demonstrate an understanding of the production process from the conceptualization phase to the creation of a marketable quality product. Students will demonstrate acquired skills through the creation of various demo-reel pieces for presentation in a professional employment setting. Equipment and software used are industry standard and course content is driven by industry needs. Opportunities available after completion of this program include, but are not limited to, production for radio, commercial voice-overs and syndicated shows, commercial copywriting, station promotions and marketing and show producer.

Requirements for the Certificate Required courses: R-TV 01 Introduction to Broadcasting R-TV 09 Broadcast Sales and Promotion R-TV 10 **Radio Management** and Programming Beginning Radio Production R-TV 11A R-TV 11B Advanced Radio Production R-TV 15 **Broadcast Business Practices** R-TV 96 Campus Radio Station Lab R-TV 97A Radio/Entertainment Industry Seminar and

Radio/Entertainment

History of Radio DJ's

R-TV Internet Applications

Industry Internship PLUS Select six (6) units from: R-TV 12

R-TV 97B

R-TV 31

R-TV 32

Commercial Copywriting R-TV 26 Legal Issues in Entertainment Law 3.0 R-TV 33 Radio Show Producer Techniques 3.0 and Procedures Total Units 27.0 - 28.0

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	3.0	
	- Spanish Market		
R-TV 05	Radio-TV Newswriting	3.0	
R-TV 07A	Beginning Commercial Voice-Overs	s 3.0	
R-TV 11A	Beginning Radio Production	3.0	CSU
R-TV 11B	Advanced Radio Production	3.0	CSU
R-TV 15	Broadcast Business Practices	3.0	
R-TV 96	Campus Radio Station Lab	1.0 -	2.0
R-TV 97A	Radio/Entertainment	1.0	
	Industry Seminar		
R-TV 97B	Radio/Entertainment	1.0	
	Industry Internship		
PLUS			

Select six (6) units from:

3.0 CSU

3.0 CSU

3.0 CSU

1.0 - 2.0

3.0

3.0

3.0

1.0

1.0

3.0

3.0

3.0

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-Ove	ers3.0
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 La	w3.0
R-TV 31	History of Radio DJ's	3.0
R-TV 32	R-TV Internet Applications	3.0
R-TV 33	Radio Show Producer Techniques	s 3.0
	and Procedures	
	Total Units	30.0 - 31.0

Real Estate **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 Exam.

Requirements for the Certificate Required courses: BUSR 50 Real Estate Principles 3.0 CSU BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 52 Real Estate Practice 3.0 or 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 3.0 CSU,UC Business Law BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects 3.0 of Real Estate Investments Real Estate Property BUSR 59 3.0 Management BUSR 76 Escrow Procedures I 3.0

Total Units

18.5

	s tate Appraisal Administration Departme te L0513	ent	CHLD 6 CHLD 10	Survey of Child Development Curriculum Child Growth and Development or	3.0 CSU 3.0 CSU,UC	Sign Lang fluency de	ted by the completion of SIGN 3 Jage 4, (or the equivalent skill) monstrated by the completion c ertification: There are many spec	and English of ENGL 1A.	Agricult	Turf Management ural Sciences Department te L0112	
The certific	ate in Real Estate Appraisal me	ets all of the	CHLD 10H	<u>or</u> Child Growth and Development	3.0 CSU.UC		f Sign Language Interpreting, bu		This certifi	cate program is designed to prov	vide skills
educationa	I requirements for Appraiser Tra	inee, Licensed		- Honors	,,,,	this progra	am is on preparing the interpret	er generalist.	required for	or students interested in employn	nent at golf
	and depending on the choice of		CHLD 50	Multicultural Education:	3.0		requiring some type of certificat			ce tracks, athletic fields and stad	
	educational requirements for Cer	τιπεά		Anti-Bias Perspective			mon in California, there are still	//	other high use turf areas. All courses are applicable for degree requirements.		
Residential			CHLD 51	Early Literacy	3.0		ties for the precertified interpret			•	
	ments for the Certificate			in Child Development			g the certificate in Sign Languag			ments for the Certificate	
Required co BUSR 81		3.5	CHLD 62	Music and Motor Development	3.0 CSU		nake one a "Certified Interpreter of this program are encouraged		Required o AGOR 1	<i>courses:</i> Horticultural Science	3.0 CSU
ן פ אַכּחַת	Appraisal: Principles and Procedures	ر.ر		for Young Children			nterpreting Certification (NIC) th		AGOR 1 AGOR 24	Integrated Pest Management	3.0 CSU 3.0 CSU
BUSR 82	Uniform Standards	1.0	CHLD 64	Health, Safety and Nutrition	3.0 CSU		f Interpreters for the Deaf (RID)		AGOR 24 AGOR 30	Ornamental Plants	3.0 CSU 3.0 CSU,UC
02 וובטע	of Professional Appraisal Practi			of Young Children			ments for the Certificate	2		- Trees and Woody Shrubs	J.U CJU,UC
BUSR 83	Residential Appraisal	3.5	CHLD 74	Program Planning	3.0	Required			AGOR 39	Turf Grass Production	3.0 CSU
BUSR 83 BUSR 84	Residential Appraisal:	3.5 2.5		for the School Age Child		SIGN 105	American Sign Language 5	4.0	7000 33	and Management	2.0 (20
104	Case Studies	2.3	PLUS Salact and	(1) course from		SIGN 108	Fingerspelling	2.0	AGOR 40	Sports Turf Management	3.0
PLUS	Luse sedures			(1) course from: Writing Effective Sentences	10	SIGN 201	Deaf Perspectives	3.0	AGOR 50	Soil Science and Management	3.0 CSU,UC
	e (3) courses from:		ENGL 64 ENGL 65	Grammar Review	1.0 1.0	SIGN 202	American Deaf Culture	3.0 CSU,UC	AGOR 50	Tractor and Landscape	3.0 CSU, 0C
BUSA 11	Fundamentals of Accounting	3.0	LIT 40	Grammar Review Children's Literature	1.0 3.0 CSU	SIGN 210	American Sign Language	3.0 CSU,UC		Equipment Operations	
BUSR 50	Real Estate Principles	3.0 CSU			2.0 (20		Structure		AGOR 62	Landscape Irrigation	3.0 CSU
BUSR 51	Legal Aspects of Real Estate	3.0	PLUS Solost three	a (7) units from		SIGN 220	Translation: American Sign	3.0 CSU	- 2 VL	- Design and Installation	
BUSR 53	Real Estate Finance	3.0		e (3) units from: Math Skills Davians	2.0		Language/English		AGOR 63	Landscape Irrigation	3.0
BUSR 55	Real Estate Economics	3.0	LERN 49	Math Skills Review	3.0	SIGN 223	Principles of Interpreting	3.0 CSU		Systems Management	
BUSR 57	Income Tax Aspects	3.0	MATH 50	Pre-Algebra Total Units	3.0	SIGN 225	Ethical Decision Making	2.0		Total Units	27.0
	of Real Estate Investments			וטנמו טווונג	31.0 - 33.0		for Interpreters				
BUSR 59	Real Estate Property	3.0	Ciarra !		~	SIGN 227	Cognitive Processing	4.0	Televi	sion Production	
	Management		-	anguage/Interpreting	9		for Interpreters			cial and Entertainment Art	ts
BUSR 76	Escrow Procedures I	3.0	Sign Lan Certificat	guage Department		SIGN 231	Interpreting	4.0		te L0602	
CISB 15	Microcomputer Applications	4.0 CSU,UC			D	SIGN 232	Advanced Interpreting	4.0	Students v	vill gain experience in film-style	production
INSP 70	Elements of Construction	3.0 CSU		n Antonio College Interpreter Tra		SIGN 239	Practicum	1.0		d studio production. This course of	
	Total Units	22.5 - 23.5		I to prepare individuals for caree Interpreters. Interpreters are need	is as SIGN led wherever	PLUS			qualifies t	he student for a certificate in tele	evision
				ation happens between the hear			ee (3) courses from:			n, and is designed to prepare a st	
	Age Child - Speciali	zation	community	y and the Deaf and hard-of-heari	ng	SIGN 99	Special Projects	2.0		I job in the industry in a variety of	
	velopment		community	y. There are an endless number o	f settings in		in Sign Language/Interpreting			ot only skills used in production,	but also
Certificat			which this	communication takes place. Inte	rpreters are	SIGN 238	Oral Transliteration	3.0		tion, and editing.	
	Age Child Specialization Certific			by school districts, cruiseship con		SIGN 240	Vocabulary Building	2.0 CSU		ments for the Certificate	
	ides the holder with specialized			ns, government agencies, hospita			for Interpreters		Required o		20 (0)
	ith children of that age. This cer			s, and a vast number of other orgen businesses.	Janizations	SIGN 250	Interpreting with Classifiers	1.5	R-TV 01	Introduction to Broadcasting	3.0 CSU 3.0
	Title 5 Master Teacher - School . el (with 16 units of general edu					SIGN 260	Video Interpreting	1.5	R-TV 14 p tv 101	Media Aesthetics	
				reparation: Preparation for the pr		SL 2	Linked Service Learning	1.0 CSU	R-TV 19A R-TV 19B	Beginning Television Production Advanced Television Production	
-	ments for the Certificate		includes fli	uency in American Sign Languag	e		Total Units	40.0 - 43.0	R-TV 19B R-TV 22		3.0 CSU 3.0
Required co CHLD 1	ourses: Child, Family and Community	3.0 CSU,UC							R-TV 22 R-TV 100	Work Experience in Film and TV	
		3.0 (50,00							11-14 100	work experience in rinn and IV	2.0

 CHLD 1
 Child, Family and Community
 3.0
 CSU,UC

 CHLD 5
 Principles/Practices in Child
 3.0
 CSU

 Development Programs
 State
 State
 State

PLUS

Select nine (9) units from:

R-TV 18	Writing for Television/Film	3.0	CSU
R-TV 20	Television News Production	3.0	
R-TV 21	Remote Television Production	3.0	
	and Engineering		
R-TV 23	Reality Show Production	3.0	
	Total Units	26.0	

Recommended Electives:

ANIM 115	Storyboarding
R-TV 26	Current Issues in Entertainment Law
THTR 17	Acting for the Camera
PHOT 10	Black and White Photography

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 c	ourses:						
AGOR 1	Horticultural Science	3.0	CSU				
AGOR 24	Integrated Pest Management	3.0	CSU				
AGOR 30	Ornamental Plants	3.0	CSU,UC				
	- Trees and Woody Shrubs						
AGOR 32	Landscaping and Nursery	3.0	CSU				
	Management						
AGOR 50	Soil Science and Management	3.0	CSU,UC				
AGOR 51	Tractor and Landscape	3.0	CSU				
	Equipment Operations						
AGOR 53	Small Engine Repair I	3.0	CSU				
AGOR 75	Urban Arboriculture	3.0					
	Total Units	24.0					

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

Web Design

Commercial and Entertainment
Arts Department
Certificate L0618

This program is designed to provide students with a combination of design and technical skills necessary for entry-level employment as a Web page designer.

Requirements for the Certificate

Required co	Required courses:							
ANIM 172	Motion Graphics	3.0						
ARTC 100	Graphic Design I	3.0						
ARTC 120	Graphic Design II	3.0						
ARTC 160	Typography	3.0						
ARTC 200	Web Design	3.0						
ARTC 220	Graphic Design IV	3.0						
ARTC 240	Multimedia Design	3.0						
ARTD 20	Design: Two Dimensional	3.0						
PHOT 4	Digital Cameras	1.0						
	and Composition							
	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	Construction Fabrication	3.0	
	and 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	Construction Fabrication	3.0	
	and Welding		
WELD 81	Pipe and Tube Welding	3.0	
WELD 91	Automotive Welding, Cutting	3.0	
	and Modification		
	Total Units	30.0	
Note: Any h	igher level welding courses ma	y be	

substituted for WELD 40.

5 , 5		1			1			1			
	Gas Tungsten Arc Weldin ning, Water	g	Welding Arc Weld	- Semiautomatic ing			SKILLS CERTIFICATES		BUSA 81	<u>or</u> Work Experience in Accounting	
& Welding Technologies		Air Conditioning, Water		Accounting - Bookkeeping		BUSO 5	Business English	3.0			
Certificate 1	0932		& Welding	Technologies			and Management Department		BUSO 25	<u>or</u> Business Communications	3.0 CSU
	udents for entry-level employme		Certificate			Certificate				llowing courses:	5.0 (50
	lder with additional skills devel			udents for entry-level employn			nting - Bookkeeping certificate pr		BUSA 70	-	3.0
	as tungsten ARC welding. Course r industry licensing with empha			elder with additional skills deve			th the basic skills and knowledge ions within the clerical/ accountin		BUSA 70 BUSA 75	Payroll and Tax Accounting Using Microcomputers	5.0 1.0
	es required for certification in a			emiautomatic ARC welding. Co udents for industry licensing w			luties performed in this field are		DUSR75	in Financial Accounting	1.0
	steel and selected exotic metals			ies required for certification in			ns to journals/ledgers, accounts re			<u>or</u>	
	tungsten ARC welding.	. ,		d specialty skills in semiautom		accounts p	ayable, inventory tracking/report	ing, bank	BUSA 81	Work Experience in Accounting	1.0
Requireme	nts for the Certificate		welding.			reconciliat	on, expense reporting, and accou	nt analysis.	BUSA 76	Using Microcomputers	1.0
Required co	urses:		Requireme	ents for the Certificate		Requirem	ents for the Certificate			in Managerial Accounting	
WELD 40	Introduction to Welding	2.0 CSU	Required co	ourses:		Required				<u>or</u>	
WELD 50	Oxyacetylene Welding	2.0	WELD 40	Introduction to Welding	2.0 CSU	BUSA 7	Principles of Accounting	5.0 CSU,UC	BUSA 81	Work Experience in Accounting	1.0
WELD 51	Basic Electric Arc Welding	2.0	WELD 50	Oxyacetylene Welding	2.0		- Financial			Total Units	14.0 - 15.0
WELD 53A	Welding Metallurgy	3.0 CSU	WELD 51	Basic Electric Arc Welding	2.0		<u>or</u>				
WELD 60	Print Reading	3.0		Welding Metallurgy	3.0 CSU	BUSA 72	Bookkeeping - Accounting	5.0	Adminis	trative Assistant - Level I	
	and Computations for Welders		WELD 60	Print Reading	3.0	BUSA 53	Ten-Key Calculations	2.0	Computer	Information Systems Departmer	t
WELD 70A	Beginning Arc Welding	3.0		and Computations for Welders		DUCA 01	<u>or</u> Work Experience in Accounting	1.0	Certificate	E0516	
WELD 70B	Intermediate Arc Welding	3.0		Beginning Arc Welding	3.0	BUSA 81 BUSO 5	Business English	1.0 3.0		Certificate prepares students fo	
WELD 70C WELD 80	Certification for Welders Construction Fabrication	3.0 3.0		Intermediate Arc Welding Certification for Welders	3.0 3.0	0030.2	or	5.0		sitions where keyboarding is the	primary
WELD 80	and Welding	3.0	WELD 70C	Construction Fabrication	3.0 3.0	BUSO 25	<u>or</u> Business Communications	3.0 CSU	function.		
WELD 81	Pipe and Tube Welding	3.0	WELD OU	and Welding	5.0	005025	Total Units	9.0 - 10.0		ents for the Certificate	
	Gas Tungsten Arc Welding	3.0	WELD 81	Pipe and Tube Welding	3.0	RUSA 7 ca	n be substituted for BUSA 72 for 1		Required of		2.0
	Total Units	30.0		Semiautomatic Arc Welding	3.0		higher level certificate/degree or		BUSO 5	Business English	3.0
Note: Any h	igher level welding courses may			Process	510		ourse for which BUSA 7 is a prered		CISB 15 CISI 11	Microcomputer Applications	4.0 CSU,UC 3.0 CSU
	for WELD 40.	y bc		Total Units	30.0				COLL	Computer Keyboarding	5.0 CSU
			Note: Any h	nigher level welding courses m	av be	Account	ing - Payroll		CISI 11A	<u>or</u> Computer Keyboarding	1.5 CSU
				for WELD 40.	,		and Management Department		CISITIN	and	1.5 (50
						Certificate	E0505		CISI 11B	Computer Keyboarding	1.5 CSU
							nting - Payroll Certificate combines		CISI 41	Office Management Skills	3.0
							specialized training in payroll, prep			Total Units	13.0
							entry-level positions within the p				
					of accounting. Common duties performed include payroll tax reporting, maintenance of payroll accounting systems,						
							g payroll transactions to journals/le				
						Requirements for the Certificate		5			
					Required courses:						
						Completion of Accounting-Bookkeeping Certificate as					
						follows:	Duin sinter of As				
						BUSA 7	Principles of Accounting	5.0 CSU,UC			
							- Financial				
						RUSA 72		5.0			
							nej carcalations				
					BUSA 72 BUSA 53	<u>or</u> Bookkeeping - Accounting Ten-Key Calculations	5.0 2.0				

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 entrylevel job in the business world.

Requirements for the Certificate *Required courses:*

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	
	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 entrylevel employment in international sales and marketing.

Requirements for the Certificate

nequireu courses.							
BUSM 20	Principles of Business	3.0	CSU,UC				
BUSM 51	Principles of International	3.0	CSU				
	Business						
BUSS 36	Principles of Marketing	3.0	CSU				
	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: 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 Required courses: BUSM 20 Principles of Business

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

3.0 CSU,UC

Special Information:

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

Business: Retail Management - Level I Accounting and Management Department Certificate 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:

Currieling				
	Total Units	10.0		0
	and Merchandising			
BUSS 50	Retail Store Management	3.0		0
	or			
	and Merchandising			0
FASH 62	Retail Store Management	3.0	CSU	
CISB 15	Microcomputer Applications	4.0	CSU,UC	0
BUSO 25	Business Communications	3.0	CSU	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: BUSM 20 Principles of Business 3.0 CSU,UC BUSM 66 Small Business Management 3.0 CSU Principles of Marketing 3.0 CSU BUSS 36 **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.

Children's Program Certificate: General Level I
Child Development
Certificate E1326
The Children's December Contiference Conservation

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 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	or Database Management	4.0
	– Microsoft SQL Server	4.0
CISD 31	Database Management – Oracle	4.0
CISP 10	Principles of Object-Oriented Design	2.0
CISP 41	Programming in C#	4.0
CISP 44	Advanced Programming in C#	4.0
	Total Units	14.0

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:*

CISD 11	Database Management	4.0	CSU
	- Microsoft Access		
CISD 14	Advanced Database	4.0	
	Management – Microsoft Access	5	
CISD 21	Database Management	4.0	
	 Microsoft SQL Server 		
CISD 40	Database Design	3.0	
	Total Units	15.0	

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 UML.

Requirements for the Certificate

Required courses:

CISP 10	Principles of Object-Oriented Design	2.0		Rea
CISP 11	Programming in Visual Basic	4.0	CSU,UC	CIS
	<u>or</u>			CIS
CISP 21	Programming in Java	4.0	CSU,UC	CIS
	<u>or</u>			0.5
CISP 31	Programming in C++	4.0	CSU,UC	
	<u>or</u>			
CISP 41	Programming in C#	4.0		
CISP 14	Advanced Visual Basic Programming	14.0	CSU,UC	
	or	•		
CISP 24	 Advanced Java Programming	4.0		
	or			
CISP 34	Advanced C++ Programming	40	CSU,UC	
	5 5	4.0	C50,0C	
CISP 44	<u>Or</u> Advanced Dreamming in C#	10		
USF 44	Advanced Programming in C#	4.0		
	Total Units 1	10.0		

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 CISN 24	Windows Operating System Microsoft NT Network System		CSU CSU
	Administration	4.0	(30
	Total Units	8.0	

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.

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Requirements for the Certificate *Required courses:*

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

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			
CISS 27	Defending Computer Systems	1.0				
	Hands-On					
	Total Units	13.0				
CIS Professional Certificate in SOA and Web Services						
Compute	Computer Information Systems Department					
Certificate E0724						
This certifie	This certificate is designed for returning CIS professionals					

with several years of experience or current students who have completed several CIS courses. This program will help the student understand the concepts and theories underlying service oriented architecture (SOA), XML technologies (DTD, XSD, XLST, XQuery and XPath), and Web services technologies (UDDI, WSDL and SOAP).

Requirements for the Certificate *Required courses:*

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

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:*

Database Management	4.0
 Microsoft SQL Server 	
Database Management - Oracle	4.0
Database Design	3.0
Total Units	11.0
	– Microsoft SQL Server Database Management - Oracle Database Design

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:*

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 31	Programming in C++	4.0	CSU,UC
CISP 34	Advanced C++ Programming	4.0	CSU,UC
	Total Units	14.0	

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, webbased applets, servlets, navigating databases, and JavaBeans.

Requirements for the Certificate Reauired courses:

CISD 11	Database Management	4.0	CSU
	- Microsoft Access		
	<u>or</u>		
CISD 21	Database Management	4.0	
	 Microsoft SQL Server 		
	<u>or</u>		
CISD 31	Database Management - Oracle	4.0	
CISP 10	Principles of Object-Oriented	2.0	
	Design		
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 CI: and enhance knowledge for network administration. However, individual courses may assist students in preparing for related certification exams.

Requirements for the Certificate Required courses:

neguneace	and sea.		
CISN 11	Telecommunications	4.0	CSU
	Networking		
CISN 24	Windows Server Network	4.0	CSU
	And Security Administration		
CISN 34	LINUX Networking and Security	4.0	CSU
CISN 51	Cisco CCNA Networking	4.0	CSU
	and Routing		
	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	10.0
CISD 40	Database Design	3.0
CISD 32	Oracle Forms and Reports	3.0
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		
ISN 51	CISCO Networking	4.0	
	Administration		
ISN 24	Windows Network System	4.0	
	Networking		
ISN 11	Telecommunications	4.0	CSL

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:

nequireu co	ui ses.		
CISP 10	Principles of Object-Oriented	2.0	
	Programming		
CISP 11	Programming in Visual Basic	4.0	CSU,UC
CISP 14	Advanced Visual Basic	4.0	CSU,UC
	Programming		
CISD 11	Database Management	4.0	
	- Microsoft Access		
	<u>or</u>		
CISD 21	Database Management	4.0	
	 Microsoft SQL Server 		
	Total Units	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:

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

Coaching **Physical Education Department** Certificate 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.

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

Requirements for the Certificate Reauired 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				

Computer Graphics Technology Proficiency **Commercial and Entertainment Arts Department** Certificate E0312

The Proficiency Certificate provides students and professionals with a fast-track, 4-course training cluster covering the creation, editing, and application of digital imagery for personal use and interest, updating software skills, career preparation and applications, digital portfolios, or electronic publishing.

Requirements for the Certificate Reauired courses:

GRAP 8	Fundamentals of Digital Media	3.0
GRAP 10	Photoshop Imagery	3.0
GRAP 15	InDesign Graphics	3.0
GRAP 16	Illustrator Graphics	3.0
	Total Units	12.0

Recommended Electives:

GRAP 18 3D Graphics Imagery Multimedia Graphics GRAP 20

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: HRM 52 Food Safety and Sanitation 1.5 CSU

	FOOD Safety and Samilation	1.5 (50
HRM 54	Basic Cooking Techniques	3.0 CSU
HRM 91	Work Experience	1.0 CSU
	in Restaurant/Hospitality	
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

Dance Teacher Dance Department Certificate E0313

The Dance Teacher Certificate is intended to prepare students for careers as dance instructors in private dance studios, recreation centers and K-12 dance programs. Focus is on the genres of Ballet, Jazz and Modern Dance with pedagogical principles that can be applied to other dance forms. This certificate may aid the student's search for an entry-level job in the dance teaching world.

Requirements for the Certificate *Required courses:*

DNCE 2B	Ballet II	0.5
DNCE 4	Choreography	0.5
DNCE 12B	Modern II	0.5
DNCE 14B	Jazz II	0.5
DNCE 24	Dance Production	1.0
DNCE 33	Improvisation	0.5
DNCE 35	Repertory	2.0
DNCE 39A	Alignment and Correctives I	0.5
DN-T 20	History and Appreciation of Dance	3.0
DN-T 38	Dance Teaching Methods	3.0
PE 24	Kinesiology	2.0
	Total Units	14.0

Data Entry

Computer Information Systems 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:*

CISB 15	Microcomputer Applications	4.0	CSU,UC
CISI 12	Intermediate Computer	3.0	
	Keyboarding		
CISI 21	Data Entry	3.0	
	Total Units	10.0	

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 through-hole and surface mount devices (SMD). Included are skills for various types of cabling and connections.

Electronic fundamentals (test instruments, basic electrical measurements, color-codes, schematic symbols, device outlines, etc.) are provided in the introductory courses. Complete surface mount technology (SMT) skills are taught with a culmination in the IPC7711/IPC7721 rework and repair of electronic assemblies certification. Recertification is required every two years. ELEC 63 is a prep course for the recertification.
Requirements for the Certificate
Required courses:
ELEC 50A Electronic Circuits (DC) 4.0 CSU
ELEC 50B Electronic Circuits (AC) 4.0 CSU

kequirea co	urses:		
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
	<u>or</u>		
EST 50	Electrical Fundamentals	4.0	
	for Cable Installations		
ELEC 61	Electronic Assembly	3.0	CSU

and Fabrication

ELEC 62	Advanced Surface Mount	2.0
	Assembly and Rework	
	Total Units	13.0

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

Requirements for the Certificate Required courses:

ELEC 11	Technical Applications	3.0	CSU
	in Microcomputers		
	<u>or</u>		
CISB 15	Microcomputer Applications	4.0	CSU,UC
EST 50	Electrical Fundamentals	4.0	
	for Cable Installations		
EST 52	Fabrication Techniques	4.0	
	for Cable Installations		
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 I	10.5
	Total Units	10.5

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.

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Physical Demands:	Eachien Desires C	PE 40 Techniques of Teaching 2.0	
 Perform prolonged, extensive, or considerable 	Fashion Design - Computer-Aided Consumer Science and Design Technologies	Cardiovascular Exercise	Hospitality: Food Services Consumer Science and Design Technologies
standing/walking, lifting positioning, pushing, and/or transferring patients	Certificate E1329	PE 41 Techniques of Teaching 2.0 Weight Training	Certificate E1390
Possess the ability to perform fine motor movements	The Fashion Design - Computer-Aided certificate builds	TE 05 Trailess specialist memory 1.0	This certificate prepares the holder to enter the food service field as a skilled food service worker in either foo
with hands and fingers	upon basic skills and provides students with intermediate technical and technological skills in fashion design and	Total Units 17.0	preparation or service.
Possess the ability for extremely heavy effort (lift and	patternmaking. With a diversified skill base that includes	Recommended Electives:	Requirements for the Certificate
carry at least 125 pounds	CAD technology, students will be better prepared for	DNCE 20A Alignment and Correctives	Required courses:
Perform considerable reaching, stooping, bending,	above entry-level positions and/or advancement to new		HRM 51 Introduction to Hospitality 3.0 CSU
kneeling, and crouching	career opportunities.	Gallery Design/Operation	HRM 52 Food Safety and Sanitation 1.5 CSU
Sensory Demands:	Requirements for the Certificate		HRM 53 Dining Room Service 3.0 CSU
 <u>Color vision:</u> ability to distinguish and identify colors 	Required courses: FASH 20 Illustration for Fashion 3.0	Fine Arts Certificate E1020	Management Total Units 7.5
(may be corrected with adaptive devices)	FASH 20 IIIUSTRATION for Fashion 3.0 and Costume Design	This certificate is designed to provide students with the	Total Units 7.5
 <u>Distance vision</u>: ability to see clearly 20 feet or more 	FASH 21 Patternmaking I 3.0 CSU		Hospitality: Hospitality
 <u>Depth perception:</u> ability to judge distance and 	FASH 24Fashion Patternmaking3.03.0	to display an esthetically and conceptually effective art	Management - Level I
space relationships	by Computer	exhibition. Students will acquire the knowledge of	Consumer Science and Design Technologies
 <u>Near vision</u>: ability to see clearly 20 inches or less 	FASH 25 Fashion Computer-Assisted 3.0	various/diverse artistic media and develop a career-	Certificate E1332
 <u>Hearing:</u> able to recognize a full range of tones 	Drawing		The Hospitality: Hospitality Management - Level I
Working Environment:	FASH 26 Fashion Computer Assisted 2.0		Certificate prepares the holder for an entry-level positio within the hospitality industry.
 May be exposed to infectious and contagious disease, 	Design	-	Requirements for the Certificate
 May be exposed to infectious and contagious disease, without prior notification 	Total Units 14.0		Required courses:
 Regularly exposed to the risk of blood borne diseases 	Fitness Specialist/Devenue I Turi		HRM 51 Introduction to Hospitality 3.0 CSU
 Regularly exposed to the risk of blood borne diseases Exposed to hazardous agents, body fluids and wastes 	Fitness Specialist/Personal Trainer Physical Education Department		HRM 53 Dining Room Service 3.0 CSU
	Physical Education Department Certificate E0808	Production	Management
 Exposed to odorous chemicals and specimens Subject to bazards of flammable explosive gases 	The Fitness Specialist/Personal Trainer Certificate prepares	5	HRM 70 Introduction to Lodging 3.0 CSU
 Subject to hazards of flammable, explosive gases Subject to huma and suts 	students for careers as personal trainers, health/fitness		HRM 91 Work Experience 1.0 CSU
Subject to burns and cuts	professionals in corporate fitness facilities, wellness	(off campus) ARTG 22A Exhibition Design 1.0	in Restaurant/Hospitality Total Units 10.0
 Contact with patients having different religious, 	centers and public/private health clubs. The Fitness	ARIG 22A Exhibition Design 1.0 and Art Gallery Operation Work Experience	
culture, ethnicity, race, sexual orientation,	Specialist/Personal Trainer Certificate curriculum is designed to prepare students who wish to take exams		Hospitality: Restaurant
psychological and physical disabilities, and under a wide variety of circumstances	designed to prepare students who wish to take exams offered by the American Council on Exercise (ACE), the	ARTC 100 Graphic Design I 3.0	Management - Level I
-	American College of Sports Medicine (ACSM) and other	PLUS	Consumer Science and Design Technologies
 Handle emergency or crisis situations Subject to many interruptions 	nationally recognized organizations. Technical skills	Select one (1) course from:	Certificate E1333
 Subject to many interruptions Described desiring (actions related to and of life issues) 	necessary for implementation of a safe, effective and		The Hospitality: Restaurant Management - Level I
Requires decisions/actions related to end of life issues			Certificate prepares the holder for an entry-level position within a restaurant.
 Exposure to products containing latex 	Requirements for the Certificate Required courses:		Requirements for the Certificate
nglish Language Skills:	Required courses: NF 10 Nutrition for Personal Health 3.0 CSU		Requirements for the Certificate
Ithough proficiency in English is not a criteria for	and Wellness		HRM 51 Introduction to Hospitality 3.0 CSU
dmission into the EMT program, students must be able	PE 15 Administration 2.0		HRM 52 Food Safety and Sanitation 1.5 CSU
o speak, write and read English to to ensure patient afety and to complete classes successfully.	of Fitness Programs		HRM 53 Dining Room Service 3.0 CSU
arcey and to complete classes successfully.	PE 24 Kinesiology 2.0	' I	Management
	PE 38 Physiology of Exercise for Fitness 3.0	' I	HRM 91 Work Experience 1.0 CSU
	PE 39 Techniques of Fitness Testing 2.0 CSU	' I	in Restaurant/Hospitality
		, 	Total Units 8.5

Programs of Study Leading to a Certificate

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:*

		Total Units	10.0	
C	SS 15	Operating Systems Security	4.0	
		Systems Security		
C	SS 13	Principles of Information	4.0	
C	SS 11	Practical Computer Security	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	
CISW 11 Internet Technologies	5 4.0	CSU
CISB 15 Microcomputer Appli	cations 4.0	CSU,UC
CISB 11 Computer Informatio		

Interior Design: Level I Consumer Science and Design Technologies Certificate B0303

Interior Design: Level I Certificate is designed to prepare students with a broad overview and solid foundation in the area of interior design and related fields. This certificate may lead to new opportunities and provide students with the groundwork upon which to build a career.

Requirements for the Certificate *Required courses:*

Decorative Arts

Total Units

ID 10	Introduction to Interior Design	3.0	CSU
ID 12	Interior Materials and Products	3.0	CSU
ID 14	History of Furniture and	3.0	CSU

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 in Science Degree Nursing Program at Mt. San Antonio College. Individuals who complete this track are not eligible to return to the college at a later date to complete a degree in nursing. LVN applicants must declare their educational goal at the time of application (30-Unit or Associate Degree). This decision is not subject to change at a later date.

Prerequisite Courses:

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

Non-course requirements:

- An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for Math 51
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Possess a California Licensed Vocational Nurse license.
- 6. Criminal background check and drug screening must be completed prior to any patient contact.
- 7. A physical examination, including specific immunizations is required of candidates prior to the beginning of nursing classes.

- 8. Current Level C-Provider CPR certification
- 9. Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70, Role Transition Due to the clinical component of NURS 70, applicants must submit their names to the Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Vocational Nurse License, physical, CPR card, Background Check, and drug testing prior to the start of class.)

Requirements for the Certificate *Required courses:*

NURS 5	Psychiatric Nursing	3.0	CSU
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 15.0

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

Selection Process:

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

Procedure:

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

- a) Once a student has completed all course prerequisites, the student will then apply to the Nursing Department on an appointment basis.
- b) Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - Official transcripts of all college work completed at all colleges;
 - If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;

- Students completing college coursework outside of the United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions Office).
- Due to specific college deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

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

9.0

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
 Airc & N
- 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 must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Maakin	- On eventer			Required	сои
	e Operator			HRM 52	F
	Naintenance Technician Acturing Technology			NF 20	P
Certificat				NF 25	E
This certific	ate provides a foundation of b	asic skills	for		0
employmer	nt in a variety of entry-level ma	anufacturi	ng	NF 25H	E
positions.					<u>(</u>
Requiren	nents for the Certificate	•		NF 10	Ν
Required co	ourses:				a
MFG 10	Mathematics and Blueprint	3.0		NF 28	(
	Reading for Manufacturing				
MFG 11	Manual and CNC	2.0 0	SU		
	Manufacturing Essentials				
MFG 12	Advanced Manufacturing	2.0 0	SU		
	Processes				
MFG 85	Manual Computerized	2.0 (SU		
	Numerical Control (CNC) Progr	amming			
PLUS					
	(1) course from:				
MFG 38		2.0 (
MFG 39	SurfCAM I	2.0 (.50		
	Total Units	11.0			

& Manufa Certificat This certific MasterCAM necessary r sound func	Aaintenance Technician acturing Technology e E0927 sate provides a strong backgroun 2-D, 3-D, and Solids packages al nachine shop theory and practic tional data into the CAD/CAM sy nents for the Certificate	long w e to in stem. 2.0		Nutriti - Level Consum Certifica This certifi agencies s Program for Start, and Coursewor knowledge programs Require	II: C er Sc te E1 icate p uch a: or Wo Schoo k is d e nece that s
MFG 38B	MasterCAM II		CSU	Required	
MFG 85	Manual Computerized	2.0	000	Level I as f	
	Numerical Controls(CNC) Progra	mmin	g	HRM 52	Foo
	Total Units	8.0	-	NF 20	Prir
Consume Certificat This certific	on Program Assistan r Science and Design Tech e E1331 rate prepares students to work for hd programs as nutrition assistar	or com	gies	NF 25H NF 10	<u>or</u> Ess <u>or</u> Nut anc
2	nents for the Certificate			Plus the f	ollowi
Required co	ourses:			NF 28	Cul
HRM 52	Food Safety and Sanitation		CSU	CHLD 10	Chi
NF 20	Principles of Foods with Lab		CSU	CHLD 64	Hea
NF 25	Essentials of Nutrition or	3.0	CSU,UC		of Y Tot
NF 25H	Essentials of Nutrition - Honors or	3.0	CSU,UC		101
NF 10	Nutrition for Personal Health and Wellness	3.0	CSU		
NF 28	Cultural and Ethnic Foods Total Units	3.0 10.5	CSU,UC		

Program Assistant Nutrition Program Assistant - Level II: Weight Management Child Program Emphasis cience and Design Technologies Program Emphasis 1335 **Consumer Science and Design Technologies** Certificate E1336 prepares students to work for community as the Federal Supplemental Nutrition This certificate prepares students to work as nutrition omen, Infants and Children (WIC), Head assistants in the public or private sector. Coursework is ool Food Service as nutrition assistants. designed to provide the basic skills and knowledge designed to provide basic skills and necessary for entry-level positions in a variety of cessary to entry-level positions in nutrition businesses, agencies and programs that focus on weight serve children. management. nts for the Certificate **Requirements for the Certificate Required courses:** ses: vs: Level I as follows: od Safety and Sanitation 1.5 CSU **HRM 52** Food Safety and Sanitation 1.5 CSU inciples of Foods with Lab 3.0 CSU NF 20 Principles of Foods with Lab 3.0 CSU sentials of Nutrition 3.0 CSU,UC NF 25 Essentials of Nutrition 3.0 CSU,UC or sentials of Nutrition - Honors 3.0 CSU,UC NF 25H Essentials of Nutrition - Honors 3.0 CSU,UC or utrition for Personal Health 3.0 CSU NF 10 Nutrition for Personal Health 3.0 CSU d Wellness and Wellness NF 28 **Cultural and Ethnic Foods** 3.0 CSU,UC ving courses: Itural and Ethnic Foods 3.0 CSU,UC Plus the following courses: ild Growth and Development 3.0 CSU,UC NF 81 Cooking for Your Heart and Health 1.0 ealth, Safety and Nutrition 3.0 CSU PE 34 Fitness for Living 3.0 CSU,UC Young Children SPCH 26 Interpersonal Communications 3.0 tal Units 16.5 **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: MFG 15** 2.0 AutoCAD 2D **MFG 17** 3-D CAD - Mechanical Modeling 2.0 **MFG 19** Parametric Solid Modeling 2.0

2.0

2.0

for Manufacturing

Autodesk Inventor

Total Units

Advanced Parametric Solid

Modeling for Manufacturing

MFG 25

MFG 27

The Pilates Professional Teacher Training Certificate prepares students for careers as Pilate instructors/trainers in professional Pilates studios, dance studios, corporate fitness facilities, wellness centers, public/private health clubs and private training in a home studio. The certificate curriculum meets the standards of the Pilates Method Alliance and includes lecture, self-study, and teaching hours. Phase I covers Pilates theory and the Mat and Reformer repertoire of exercises.

Requirements for the Certificate *Required courses:*

PE-I 50A

Yoga

Total Units

DN-T 27	Theory and Principles of Pilates	3.0
DN-T 28	Functional Anatomy for Pilates	2.0
DN-T 29	Teaching Pilates Mat Repertoire	1.5
DN-T 30	Teaching Pilates	1.5
	Reformer Repertoire	
DN-T 31	Pilates Teaching	3.0
	- Mat and Reformer	
PE 3	First Aid and CPR	3.0
PE 24	Kinesiology	2.0
Plus select	two (2) courses from:	
DNCE 39B	Alignment and Correctives II	0.5
DNCE 40	Conditioning Through Dance	0.5

0.5

17.0

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 Fundamental — Behind-the-Scenes

Commercial and Entertainment Arts

Certificate E0316

This introductory certificate is designed to equip students who have a goal of working Behind-the-Scenes in broadcasting with the basic skills needed to qualify for an entry-level job in the industry. Students will examine a variety of careers in the radio industry as well as learn the fundamentals of production, sales and promotion, management and programming, while gaining actual experience through an internship either at one of the campus radio stations or a commercial radio station.

Requirements for the Certificate *Required courses:*

- R-TV 01
 Introduction to Broadcasting
 3.0

 R-TV 09
 Broadcast Sales and Promotion
 3.0

 R-TV 10
 Radio Management
 3.0

 and Programming
 3.0

 R-TV 11A
 Beginning Radio Production
 3.0

 R-TV 96
 Campus Radio Station Lab
 1.0 2.0
- R-TV 97A Radio/Entertainment Industry 1.0 Seminar R-TV 97B Radio/Entertainment Industry 1.0
- Internship Total Units 15.0 - 16.0

Radio Broadcasting Fundamental — On-Air Commercial and Entertainment Arts

Certificate E0317

This introductory certificate is designed to equip students with a goal to become On-Air professionals with the basic skills needed to qualify for an entry-level job in broadcasting. Students will examine a variety of careers in the radio industry as well as learn the fundamentals of on-air performance, production and gain actual experience through an internship either at one of the campus radio stations or a commercial radio station.

Requirements for the Certificate *Required courses:*

	Total Units 15.0 - 1	6.0
	Internship	
R-TV 97B	Seminar Radio/Entertainment Industry	1.0
R-TV 97A	Radio/Entertainment Industry	1.0
R-TV 96	Campus Radio Station Lab 1.0 -	2.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 07	Beginning Commercial Voice-Overs	3.0
R-TV 02	On-Air Personality Development	3.0
R-TV 01	Introduction to Broadcasting	3.0

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

neguneu co	<i>uises.</i>		
MFG 11	Manufacturing Processes I	2.0	CSU
MFG 39	SurfCAM I	2.0	CSU
MFG 39B	SurfCAM II	2.0	CSU
MFG 85	Manual Computerized	2.0	CSU
	Numerical Control (CNC) Program	nming	1
	Total Units	8.0	

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:

negun eu co	uises.		
WELD 40	Introduction to Welding	2.0	CSU
WELD 70A	Beginning Arc Welding	3.0	
WELD 70B	Intermediate Arc Welding	3.0	
	Total Units	8.0	
	igher level welding courses for WELD 70A.	may be	
Recomment	ded Electives:		

MFG 70 Technical Mathematics - Manufacturing Applications

WELD 60 Print Reading and Computations for Welders

WELD 70C Certification for Welders

section

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



PROGRAMS OF STUDY LEADING TO AN ASSOCIATE DEGREE

Mt. San Antonio College offers both Associate in Science (A.S.) and Associate in Arts (A.A.) degrees. In general, the Associate in Science degrees are two-year occupational degrees that prepare students for a variety of career and technical fields. The Associate in 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 in Arts degree will find that they have a solid foundation for further postsecondary study should they wish to transfer at a later date.

ASSOCIATE IN ARTS TRANSFER DEGREES (AA-T)

Recent legislation requires all California Community Colleges create associate degree for transfer. To earn an "associate degree for transfer" a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC or CSU GE breadth, and a major or area of emphasis of at least 18 units. Students must have a minimum GPA of 2.0 to receive an associate degree for transfer. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements. At the time of this printing, the associate degrees for transfer were in the process of design and approval. Please see your counselor or educational advisor to obtain the most current associate degree information.

GENERAL REQUIREMENTS FOR AN ASSOCIATE DEGREE

Application for Graduation

The Application for Graduation is the student's notification to Admissions and Records that he or she has completed all requirements and would like to receive a degree. The Application for Graduation form is available in the Admissions and Records office or online at *www.mtsac.edu/students/admissions/gradp.html.* Students should meet with a Counselor to discuss their Education Plan prior to submitting the Application for Graduation. All students intending to receive a degree must file an Application for Graduation with the Admissions and Records office and have on file all required documents and official transcripts. The deadline dates for submitting the Application for Graduation are as follows:

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

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

Multiple degrees

The Associate in Science degree shall be awarded to those graduates who majored in one of the occupational programs at Mt. San Antonio College. Students may be awarded both an Associate in Science degree and an Associate in Arts degree with the 60 units required for an Associate degree if they have met the requirements for both within the 60 units of 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:

NOTE: All students must file a petition for graduation with the Admissions & Records

Office and have on file all required documents and transcripts.

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

GRADUATION REQUIREMENTS 2011-2012

The following requirements apply to both Associate in Science (A.S.) and Associate in 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

or 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,
 - or Math 71B Intermediate Algebra - Second Half or
 - Math 71X Practical Intermediate Algebra or
- 2. Completing a more advanced college level mathematics course. $\underline{\textit{or}}$
- 3. Obtaining a satisfactory score on the Intermediate Algebra Competency Examination.

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

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

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

Additional Requirements for the Associate in Science degree

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

Additional Requirements for the Associate in Arts degree

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

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

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:

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

D. Social Sciences

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

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

E. Lifelong Understanding and Self-Development

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

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

GENERAL EDUCATION OUTCOMES (GEOs)

GEOs are statements that define the knowledge, skills, and perspectives acquired by students who satisfy our general education requirements. It is through the assessment of GEOs that the Mt. SAC general education curriculum will be evaluated for improvements. GEOs have been determined and will be assessed by faculty who teach courses within Areas A-E of our general education pattern. The GEOs for Mt. SAC can be found at: www.mtsac.edu/instruction/general/geos_mtsac.html

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

GENERAL EDUCATION RE	UIIREMENT	S FOR 2011-2012			GENERAL EDUCATION REQUIRE	MENTS FOR	2 2011-2012 (continued)
				_			
AREA A:	PHSC 7L	Physical Science Laboratory	AHIS	5	History of Western Art: Renaissance	ENGL 1BH	English – Introduction to Literary
<i>Communication in the English Language (6 units):</i>	PHYS 1	Physics		C 11	Through Modern		Types – Honors
Select one [1] courses from the following:	PHYS 2AG PHYS 2BG	,	AHIS	эп	History of Western Art: Renaissance	FRCH 1	Elementary French Continuing Elementary French
ENGL 1A Freshman Composition ENGL 1AH Freshman Composition – Honors	PHYS 4A	General Physics Engineering Physics	AHIS	6	Through Modern — Honors History of Modern Art	FRCH 2 FRCH 3	Intermediate French
1	PHYS 4A	Engineering Physics	AHIS		History of Modern Art – Honors	FRCH 3	Continuing Intermediate French
Select one [1] courses from the following:	PHYS 4C	Engineering Physics	AHIS		History of Asian Art	FRCH 5	Advanced French
SPCH 1A Public Speaking	LIFE SCIEN	5 5 7	AHIS		A History of Greek and Roman Art and	FRCH 6	Continuing Advanced French
SPCH 1AH Public Speaking – Honors	AGOR 1	Horticultural Science		10	Architecture	FRCH 60	French Culture Through Cinema
SPCH 2 Fundamentals of Communication		Introductory Human Anatomy	AHIS	11	History of African, Oceanic, and Native	GERM 1	Elementary German
SPCH 8 Professional and Organizational Speaking		Introductory Human Physiology			American Art	GERM 2	Continuing Elementary German
SPCH 8H Professional and Organizational Speaking	ANAT 10D	Human Anatomy	AHIS	12	History of Precolumbian Art	GERM 3	Intermediate German
– Honors	ANAT 36	Human Physiology	AHIS		History of Precolumbian Art – Honors	*HIST 1	History of the U.S.
AREA B:	ANTH 1	Biological Anthropology	ARCH		World Architecture I	*HIST 3	World History: Prehistoric to Early Modern
The Physical Universe and Life (3 units):	ANTH 1H	Biological Anthropology – Honors	ARCH		World Architecture II	*HIST 3H	World History: Prehistoric to Early Modern
Select one [1] course from the Physical Sciences or	ANTH 1L	Biological Anthropology Laboratory	ARTB	3 14	Basic Studio Arts		- Honors
Life Sciences:	BIOL 1	General Biology	ARTD) 15A	Drawing: Beginning	*HIST 4	World History: Early Modern to the Present
PHYSICAL SCIENCES	BIOL 2	Plant and Animal Biology	ARTD) 20	Design: Two-Dimensional	*HIST 4H	World History: Early Modern to the Present
ASTR 5 Introduction to Astronomy	BIOL 3	Ecology and Field Biology	ARTD) 25A	Beginning Painting I		- Honors
ASTR 5H Introduction to Astronomy – Honors ASTR 5L Astronomical Observing Laboratory	BIOL 4	Biology for Majors	ARTG	5 20	Art, Artists and Society	*HIST 7	History of the U.S.
	BIOL 4H	Biology for Majors – Honors	ARTS	5 22	Design: Three-Dimensional	*HIST 7H	History of the U.S. – Honors
ASTR 7 Geology of the Solar System ASTR 8 Introduction to Stars, Galaxies, and the	BIOL 6	Humans and the Environment	ARTS		Ceramics: Beginning I	*HIST 8	History of the U.S.
Universe	BIOL 6L	Humans and the Environment Laboratory	ARTS		Sculpture: Beginning	*HIST 8H	History of the U.S. – Honors
CHEM 10 Chemistry for Allied Health Majors	BIOL 8	Cell and Molecular Biology	DN-T		History and Appreciation of Dance	*HIST 10	History of Asia
CHEM 20 Introductory Organic and Biochemistry	BIOL 17	Neurobiology and Behavior	ID 14		History of Furniture and Decorative Arts	*HIST 11	History of Asia
CHEM 40 Introduction to General Chemistry	BIOL 20	Marine Biology	MUS		Fundamentals of Music	*HIST 19	History of Mexico
CHEM 50 General Chemistry I	BIOL 21	Marine Biology Laboratory	MUS		Music Literature Survey	*HIST 30	History of the African American
CHEM 50H General Chemistry I – Honors	BIOL 34	Fundamentals of Genetics	MUS		Music Literature Survey	*HIST 31	History of the African American
CHEM 51 General Chemistry II	BIOL 34L	Fundamentals of Genetics Laboratory	MUS		History of Jazz	*HIST 35	History of Africa
GEOG 1 Elements of Physical Geography	MICR 1	Principles of Microbiology	MUS		Introduction to Music Appreciation	*HIST 36 *HIST 39	Women in American History
GEOG 1H Elements of Physical Geography – Honor	MICR 22	Microbiology	MUS	138	Introduction to Music Appreciation – Honors	*HIST 39	California History
GEOG 1L Physical Geography Laboratory	PSICIB	Biological Psychology	MUS	144	World Music	HUMA 1	History of the Mexican American The Humanities
GEOG 1LH Physical Geography Laboratory – Honors	AREA C:		MUS		American Folk Music	ITAL 1	Elementary Italian
GEOL 1 Physical Geology		Humanities (6 units):	MUS		Rock Music History and Appreciation	ITAL 2	Continuing Elementary Italian
GEOL 7 Geology of California		[2] courses, six [6] units minimum, with at 1] course from the Arts and one [1] from	PHOT		History of Photography	ITAL 3	Intermediate Italian
GEOL 8 Earth Science	Humanitie		SPCH		Performance of Literature	ITAL 4	Continuing Intermediate Italian
GEOL 8H Earth Science – Honors		.	THTR		Introduction to Theatre Arts	ITAL 5	Advanced Italian
GEOL 8L Earth Science Laboratory	ARTS AHIS 1	Understanding the Vicual Arts or	THTR		History of Theatre Arts	ITAL 6	Continuing Advanced Italian
GEOL 9 Environmental Geology	ARTB 1	Understanding the Visual Arts, <u>or</u> Understanding the Visual Arts	THTR		Principles of Acting I	ITAL 60	Italian Culture Through Cinema
GEOL 10 Natural Disasters	AHIS 1H	Understanding the Visual Arts – Honors		ANITIES		JAPN 1	Elementary Japanese
METO 3 Weather and the Atmospheric Environment	AHIS 3	History of Women and Gender in Art	ARAB		Elementary Arabic	JAPN 2	Continuing Elementary Japanese
METO 3L Weather and the Atmospheric	AHIS 3H	History of Women and Gender in Art – Honors	ARAB		Continuing Elementary Arabic	JAPN 3	Intermediate Japanese
Environment Laboratory	AHIS 4	History of Western Art: Prehistoric	CHIN		Elementary Chinese	JAPN 4	Continuing Intermediate Japanese
OCEA 10 Introduction to Oceanography	,	Through Gothic	CHIN		Continuing Elementary Chinese	JAPN 5	Advanced Japanese
OCEA 10H Introduction to Oceanography – Honors	, AHIS 4H	History of Western Art: Prehistoric	CHIN		Intermediate Chinese	LATN 1	Elementary Latin
OCEA 10L Introduction to Oceanography Laborator PHSC 3 Energy Science		Through Gothic – Honors	CHIN		Continuing Intermediate Chinese	LATN 2	Continuing Elementary Latin
		5	ENGL	_ 1B	English – Introduction to Literary Types	LIT 1	Early American Literature
PHSC 7 Physical Science *Courses may not be double counted to satisfy more than	one area, even	if a course is listed in more than one area.	*Cours	ses may	y not be double counted to satisfy more than o	one area, even i	if a course is listed in more than one area.

	GENERAL EDUCATION REQUIRE	MENTS FOR	2011-2012 (continued)			GENERAL EDUCATION REQUIRE	MENTS FOR	2011-2012 (continued)
LIT 2	Modern American Literature	*HIST 7	History of the U.S.	1011	R 107	Race, Culture, Sex, and Mass Media Images		Gateway to Communication Studies
LIT 3	Multicultural American Literature	*HIST 7H	History of the U.S. – Honors	POL		Political Science	AREA E:	duceway to communication studies
LIT 6A	Survey of English Literature	*HIST 8	History of the U.S.	*POL		Political Theory I – Ancient to Modern		derstanding and Self-Development (3 units):
LIT 6B	Survey of English Literature	*HIST 8H	History of the U.S. – Honors	*POL		Political Theory II – Early Modern to		[1] course from the following:
LIT 10	Survey of Shakespeare	*HIST 30	History of the African American		,	Contemporary		•
LIT 11A	World Literature to 1650	*HIST 31	History of the African American	POL	9	Introduction to International Relations	AD 3	Chemical Dependency: Intervention,
LIT 11B	World Literature from 1650	*HIST 36	Women in American History	POL		Environmental Politics		Treatment and Recovery
LIT 14	Introduction to Modern Poetry	*HIST 40	History of the Mexican American	PSY		Introduction to Psychology	BIOL 5	Contemporary Health Issues
LIT 15	Introduction to Cinema	POLI 1	Political Science		IAH	Introduction to Psychology – Honors	BIOL 13	Human Reproduction, Development
LIT 20	African American Literature	POLI 1H	Political Science – Honors	*PSY(Developmental Psychology		and Aging
LIT 25	Contemporary Mexican American	POLI 25	Politics of the Mexican American	PSY		Introduction to Child Psychology	BIOL 15	Human Sexuality
	Literature	POLI 35	African American Politics	PSY		Abnormal Psychology	BIOL 15H	Human Sexuality – Honors
LIT 36	Introduction to Mythology		urses – select at least one [1] course	*PSY(The Psychology of Women	*CHLD 10	Child Growth and Development
LIT 40	Children's Literature		ollowing list (3 units):	SOC		Sociology	*CHLD 10H	Child Growth and Development – Honors
LIT 46	The Bible as Literature: Old Testament	AGAG 1		SOC		Sociology – Honors	COUN 5	Career/Life Planning
LIT 47	The Bible as Literature: New Testament	AGAG	Food Production, Land Use and Politics — A Global Perspective	SOC		Sociology	FCS 41	Life Management
PHIL 5	Introduction to Philosophy	AGFR 20	Conservation of Natural Resources	SOC		Sociology – Honors	LEAD 55	Exploring Leadership
PHIL 5H	Introduction to Philosophy – Honors	ANTH 3	Archaeology	SOC		Introduction to Gerontology	NF 10	Nutrition for Personal Health and Wellness
PHIL 12	Ethics	ANTH 5	Principles of Cultural Anthropology	SOC	5	Introduction to Criminology	NF 25 NF 25H	Essentials of Nutrition Essentials of Nutrition — Honors
PHIL 12H	Ethics – Honors	ANTH 22	General Cultural Anthropology	SOC		Introduction to Criminology – Honors	NF 25H NF 28	
PHIL 15	Major World Religions	ANTH 30	The Native American	SOC		Marriage and the Family	PE 34	Cultural and Ethnic Foods Fitness for Living
PHIL 15H	Major World Religions – Honors	BUSC 1A	Principles of Economics – Macroeconomics	SOC	14H	Marriage and the Family– Honors	*PSYC 14	Developmental Psychology
PHIL 20A	History of Western Philosophy	BUSC 1AH	Principles of Economics –	*SOC	15	Child Development	*PSYC 25	The Psychology of Women
PHIL 20AH	History of Western Philosophy – Honors		Macroeconomics – Honors	SOC	20	Sociology of Ethnic Relations	PSYC 26	Psychology of Sexuality
PHIL 20B	History of Western Philosophy	BUSC 1B	Principles of Economics – Microeconomics	SOC	20H	Sociology of Ethnic Relations — Honors	PSYC 33	Psychology for Effective Living
PHIL 20BH	History of Western Philosophy – Honors	BUSC 1BH	Principles of Economics –	SPC	17	Intercultural Communication	*SOC 15	Child Development
*POLI 5	Political Theory I – Ancient to Modern	bose ibii	Microeconomics – Honors	SPC	1 7 H	Intercultural Communication – Honors	*SPCH 26	Interpersonal Communication
*POLI 7	Political Theory II — Early Modern	CHLD 1	Child, Family, School and Community	*SPCI	126	Interpersonal Communication	*SPCH 26H	Interpersonal Communication – Honors
	to Contemporary	*CHLD 10	Child Growth and Development	*SPCI	1 26H	Interpersonal Communication – Honors	51 CH 2011	interpersonal communication monors
SIGN 101	American Sign Language 1	*CHLD 10H	Child Growth and Development – Honors	*Cour	ses ma	y not be double counted to satisfy more than o	ne area, even i	f a course is listed in more than one area.
SIGN 102	American Sign Language 2	GEOG 2	Human Geography			· · · ·	·	
SIGN 103	American Sign Language 3	GEOG 2H	Human Geography — Honors			ALPHABETICAL LISTING — ASSO		
SIGN 104	American Sign Language 4	GEOG 5	World Regional Geography					
SIGN 202	American Deaf Culture	GEOG 8	The Urban World			tonio College offers two year occupationa		
SPAN 1	Elementary Spanish	GEOG 30	Geography of California			the degree, students must complete the		
SPAN 2	Continuing Elementary Spanish	*HIST 3	World History: Prehistoric to Early Modern			general education courses as listed on pa		
SPAN 3	Intermediate Spanish	*HIST 3H	World History: Prehistoric to Early Modern	with	Couns	eling and Advising Services on the upper	level of the	Student Sevices Center.
SPAN 4	Continuing Intermediate Spanish		- Honors					
SPAN 5	Advanced Spanish	*HIST 4	World History: Early Modern to the Present	Α				d Aircraft Powerplant
SPAN 6	Continuing Advanced Spanish	*HIST 4H	World History: Early Modern to the Present	Αςτοι	nting			ance Technology — Evening
SPAN 11	Spanish for the Spanish Speaking		- Honors	Admi	nistrati	ve Assistant69		g Counseling70
SPAN 12	Continuing Spanish for the Spanish Speaking	*HIST 10	History of Asia			logy	Animation	
SPAN 25	Spanish Literature	*HIST 11	History of Asia			ning and Refrigeration	Applied Lab	oratory Science Technology
AREA D:		*HIST 19	History of Mexico			d Aircraft Powerplant	Architectura	I Technology – Design Concentration 71
	itical and Economic Institutions	*HIST 35	History of Africa			ince Technology – Day		Technology – Technology Concentration 72
	U.S. History and American Institutions	*HIST 39	California History	M	annena	nice reciniology – Day		ence
	1] course from the following:	HIST 44	History of Native Americans					
*HIST 1	History of the U.S.	JOUR 100	Mass Media and Society					
*Courses may	not be double counted to satisfy more than o	ne area, even i	f a course is listed in more than one area.					

ALPHABETICAL LISTING — ASSOCIAT	E IN SCIENCE DEGREE (A.S.) (continued)	LISTING BY INSTRUCTIONAL DIVISION	— ASSOCIATE IN SCIENCE DEGREE (A.S.)
		Arts Division	Pet Science
	Law Enforcement	Animation	5 , 5,
	Licensed Vocational Nurse to RN	Computer Graphics Design/Photography	Physical Education Division
-	Livestock Management	Photography	Physical Education 86
Child Development73		Radio Broadcasting: Behind the Scenes	Technology & Health Division
Commercial Flight73		Radio Broadcasting: On the Air	Air Conditioning and Refrigeration
Computer and Networking Technology74	Manufacturing Technology	Television Production91	Airframe and Aircraft Powerplant
Computer Graphics Design/Photography73	Marketing Management	Business Division	Maintenance Technology – Day
Computer Network Administration and	T	Accounting	Airframe and Aircraft Powerplant
Security Management74	Technician	Administrative Assistant	Maintenance Technology – Evening
Computer Programmer – Database	Nursing	Business: Management	Alcohol/Drug Counseling
Management Systems		Business: Retail Management72	Architectural Technology
Computer Programming74		Child Development	Aviation Science
Construction Inspection74	Paralenal/Lenal Accistant 85	Computer Network Administration &	Commercial Flight
Correctional Sciences75	Park & Sports Turf Management	Security Management	Computer and Networking Technology
	Pet Science	Computer Programmer – Database Management Systems	Construction Inspection
		Computer Programming	Correctional Sciences75
Educational Paraprofessional	517	Escrow Management	Electronics and Computer Engineering
Electronics and Computer Engineering Technology 75		Family and Consumer Sciences77	Technology
Emergency Medical Services		Fashion Design77	Emergency Medical Services 75 Engineering Design Technology 76
Engineering Design Technology76		Fashion Merchandising78	Fire Technology
Equipment Technology77	Radio Broadcasting: Behind the Scenes	General Business	Fire Technology – Administrative Law
Escrow Management77	Radio Broadcasting: On the Air	Hospitality and Restaurant Management	Law Enforcement
	Radiologic Technology	Interior Design	Licensed Vocational Nurse to RN81
Family and Consumer Sciences77	Real Estate	Interior Design — Kitchen and Bath Design	Manufacturing Technology
Fashion Design		International Business80	Mental Health Technology – Psychiatric
Fashion Merchandising		Marketing Management 82	Technology
Fire Technology		Paralegal/Legal Assistant	Psychiatric Technician to RN
		Real Estate	Radiologic Technology
Fire Technology – Administrative Law		Real Estate Appraisal	Respiratory Therapy
	Sign Language/Interpreting	Small Business Management	Welding
General Business	Small Business Management	Humanities & Social Sciences Division	
Graphic Design		Educational Paraprofessional75	
Histologic Technician Training		Sign Language/Interpreting91	
Horse Ranch Management		Natural Sciences Division	
Hospitality and Restaurant Management	Welding	Agri-Technology	
Human Resource Management		Architectural Technology – Design Concentration	
		Architectural Technology – Technology Concentration72	
		Equipment Technology77	
Integrated Pest Management		Histologic Technician Training	
Interior Design		Horse Ranch Management	
Interior Design – Kitchen and Bath Design		Integrated Pest Management	
International Business		Ornamental Horticulture	
		Park & Sports Turf Management	

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 semiprofessional 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 Accounting	1.0	
BUSA 58	Federal Income Tax Law	3.0	
BUSA 70	Payroll and Tax Accounting	3.0	
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	
BUSM 20	Principles of Business	3.0	CSU,UC
BUSO 25	Business Communications	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	36.0	- 37.0

Admin	istrative Assistant				
Compute	er Information Systems De	epartn	nent		
Major SO					
This program is intended to prepare students for					
	nt following graduation as adm				
	executive assistants, office man		or other		
	d support staff. Training in a var and clerical skills is emphasized.		nts		
	bachelor's degree (transfer prog				
	th a counselor or advisor to disc				
transferab	ility of courses.				
Require	ments for the Major				
	core courses:				
BUSO 5	Business English	3.0			
BUSO 25	Business Communications	5.0	CSU		
BUSO 26	Oral Communications	3.0			
	for Business				
CISB 15	Microcomputer Applications		CSU,U		
CISB 31	Microsoft Word	3.0			
CISB 51	Microsoft PowerPoint	3.0	CSU		
CISI 12	Intermediate Computer	3.0			
	Keyboarding				
CISI 41	Office Management Skills	3.0			
PLUS Select one	(1) course from:				
CISB 61	Desktop Publishing Software	3.0			
CISI 21	Data Entry	3.0			
CISW 15	Web Site Development	4.0	CSU		
	Total Units	20.0	29.0		

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive Agricultural Sciences program and is unique in that most courses provide hands-on experiences designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which the courses are offered. The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. Additional courses needed for completion of the Associate in Science degree are listed in this catalog. It is recommended that all students consult with the department chairperson, faculty advisor, or counselor to file an educational plan.

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

Requirements for the Major

AGLI 30

AGOR 24

AGOR 62

AGPE 70

AGPE 71

Beef Production

Landscape Irrigation

- Design and Installation

Pet Shop Management

Canine Management

Total Units

Integrated Pest Management

Requiren	ients for the Major			
Required co	urses:			AIRC 11
AGAB 20	Microcomputer Applications	3.0	CSU,UC	
	in Agriculture			AIRC 12
AGAG 1	Food Production, Land Use	3.0	CSU,UC	
	and Politics - A Global Perspective	2		AIRC 20
AGAG 91	Agricultural Calculations	3.0		AIRC 25
AGAN 1	Animal Science	3.0	CSU,UC	
AGOR 1	Horticultural Science	3.0	CSU	AIRC 26
AGOR 32	Landscaping and Nursery	3.0	CSU	AIRC 30
	Management			AIRC 31
AGOR 56	Engine Diagnostics	3.0	CSU	
AGOR 71	Landscape Construction	3.0	CSU	AIRC 32
	Fundamentals			AIRC 34
PLUS				
Select one o	ourse 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	

3.0 CSU

3.0 CSU

3.0 CSU

27.0 - 28.0

3.0

3.0

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 dearee (transfer program) should consult with

a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses: AIRC 10 Technical Mathematics

10	Technical Mathematics	2.0
	in Air Conditioning and Refrigera	ation
11	Welding for Air Conditioning	2.0
	and Refrigeration	
12	Air Conditioning Codes	3.0
	and Standards	
20	Refrigeration Fundamentals	4.0
25	Electrical Fundamentals	5.0
	for Air Conditioning and Refriger	ration
26	Gas Heating Fundamentals	2.0
30	Heat Load Calculations	4.0
31	Commercial Electrical	4.0
	for Air Conditioning and Refriger	ration
32A	Air Properties and Measurement	1.5
34	Advanced Mechanical	4.0
	Refrigeration	
	Total Units	31.5

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

This program offers a day (full-time) or evening (parttime) 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 9week 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	3.0
	and Electronics	
AIRM 70B	Aircraft Maintenance Electricity	3.0
	and Electronics	
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	y3.0
AIRM 90B	Airframe Maintenance Technology	y3.0
AIRM 91A	Airframe Maintenance Technology	y3.0
AIRM 91B	Airframe Maintenance Technolog	y3.0

AIRM 92A	Airframe Maintenance Techno	oloav3.0
AIRM 92B	Airframe Maintenance Techno	57
AIRM 93A	Airframe Maintenance Techno	
AIRM 93B	Airframe Maintenance Techno	ology3.0
AIRM 95A	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 95B	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 96A	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 96B	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 97A	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 97B	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 98A	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 98B	Aircraft Powerplant	3.0
	Maintenance Technology	
0	Total Units	63.0
AIRM 74	nded Electives:	
AIKM 74	Aircraft Maintenance Technol - Work Experience	ogy
AIRM 80	Lab Studies in Aircraft	
	Maintenance Technology	
AIRM 81	Lab Studies in Aircraft	
AINWOT	Maintenance Technology	
EDT 12	Technical Engineering Drawir	all
ELEC 90	Survey of Electronics	ig ii
MFG 70	Technical Mathematics	
ini d <i>i</i> o	- Manufacturing Applications	
PHYS 1	Physics	
Airfran	ne and Aircraft Pow	verplant
	nance Technology-	
	Maintenance Tech	•
	acturing Dept.	
Major S0		
	m prepares students to enter em frame and powerplant technicia	
maintenano	te industry. Training is given in th	n in the alltrait
	rames and powerplants and thei	
	of this program leads to an Asso	
degree. Two	state-awarded certificates are a	lso available upon
successful o	ompletion of this program - one	certificate in
Airframe M	aintenance Technology and one	certificate in

Aircraft Powerplant Maintenance Technology. Excellent

opportunities for employment exist in this area of training. Certain administrative, guality 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 65A Aircraft Powerplant 13.0 CSU Maintenance Technology AIRM 65B Aircraft Powerplant 13.0 Maintenance Technology AIRM 66A Airframe Maintenance 13.0 CSU Technology AIRM 66B Airframe Maintenance 13.0 Technology

AIRM 70A Aircraft Maintenance Electricity 3.0 and Electronics AIRM 70B Aircraft Maintenance Electricity 3.0 and Flectronics AIRM 71 Aviation Maintenance Science 6.0 AIRM 72 Aviation Materials and Processes 1.5 AIRM 73 Aviation Welding 1.5 **Total Units** 67.0 **Recommended Electives:** Aircraft Maintenance Technology AIRM 74 - 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

Physics

PHYS 1

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 Reauired core courses:

	kequirea co	ore courses:		
ie	AD 1	Alcohol/Drug Dependency	3.0	CSU
	AD 2	Physiological Effects	3.0	CSU
		of Alcohol/Drugs		
S	AD 3	Chemical Dependency:	3.0	CSU
		Intervention, Treatment and Rec	overy	
s.	AD 4	Issues in Domestic Violence	3.0	
	AD 5	Chemical Dependency:	1.5	CSU
		Prevention and Education		
	AD 6	Dual Diagnosis	3.0	CSU
	Required s	killed courses:		
	AD 8	Group Process and Leadership	3.0	
	AD 9	Family Counseling	3.0	
	AD 10	Client Record and Documentation	on 1.5	
	AD 11	Techniques of Intervention	3.0	
		and Referral		
	Required fi	eld work courses:		
	AD 13	Internship/Seminar	4.0	CSU
	AD 14	Advanced Internship/Seminar	4.0	CSU
	PLUS			
		5) units from:		
	CHLD 10	Child Growth and Development	3.0	CSU,UC
		<u>or</u>		
	CHLD 10H	Child Growth and Development	3.0	CSU,UC
		- Honors		
	PSYC 1A	Introduction to Psychology	3.0	CSU,UC
		<u>or</u>		
	PSYC 1AH	Introduction to Psychology	3.0	CSU,UC
		- Honors		
	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
	SOC 14	Marriage and the Family	3.0	CSU,UC
	SOC 15	Child Development	3.0	CSU,UC
		Total Units	41.0	

anc	ibility Requirements I Selection Procedures	Anima				ANIM 111 ANIM 121	Animal Drawing History of Animation		
Eligi	bility Requirements:	Commercial and Entertainment Arts				ANIM 131			
•	File a College application and be accepted as a student at Mt. San Antonio College.		tion Program offers an integrate			ANIM 131 Introduction to Gaming ANIM 134 Dynamic Digital Environments ANIM 135 Visual Effects II: Particle Systems			
	Selection Procedures All classes are open to all		inary approach to prepare stude 1 future job market demands. Th			ANIM 148	Demo-Reel		
	students who meet admission requirements and		balanced blend of art and techr						
	course prerequisites.		n are essential for today's career				d Laboratory Scienc	е	
•	ial Instructions:		m offers both an A.S. degree an				ology (ALST)		
a)	Restricted Electives must be taken prior to enrollment in Field Experience		tent is driven by industry needs e student with the best possible			Chemisti Major S	ry Department		
b)	Restricted Electives can be taken in conjunction with core and skills courses		animation or for transfer to an			This progra	am provides theoretical and tech students for employment as ent		
c)	Refer to Schedule of Credit Classes for sequence of courses	Require	ments for the Major				echnicians in fields such as chem		
d)	For questions, call the division office at (909) 594-	Required o					emical process control, analytica		
α)	5611, ext. 4750	ANIM 101A	Drawing - Gesture and Figure	3.0	CSU		ity, and research and developme		
Wor	king environment:	ANIM 104	Drawing Fundamentals	3.0	CSU		ncludes a broad-based overview d emphasizes development of a		
	May be exposed to infectious and contagious disease,	1070 454	<u>or</u>				t proficiency, critical thinking, an		
_	without prior notification	ARTD 15A ANIM 108	Drawing: Beginning		CSU,UC CSU		f experimental designs and outc		
	May be exposed to the risk of blood borne diseases	ANIM 108 ANIM 115	Principles of Animation Storyboarding	3.0 3.0	CSU	Require	ments for the Major		
	Exposed to hazardous agents, body fluids and wastes	ANIM 115	Character Development	1.5		Required of			
	Exposed to inductious defined, body induction and wastes	ANIM 130	Introduction to 3-D	3.0		BUSM 10	Principles of Continuous	3.0	
	Subject to hazards of flammable, explosive gases		Computer Animation			CUEM 20	Quality Improvement	F 0	
		ARTC 290	Portfolio	3.0		CHEM 20	Introductory Organic and Biochemistry	5.0	CSU,UC
	Subject to burns and cuts	ARTC 100	Graphic Design I		CSU	CHEM 50	General Chemistry I	5.0	CSU,UC
	Contact with patients having different religious,	ARTD 17A	Drawing: Life		CSU,UC	CITEIN 50	<u>or</u>	5.0	C50,0C
	culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a	ARTD 20	Design: Two Dimensional		CSU,UC	CHEM 50H		5.0	CSU,UC
	wide variety of circumstances	ARTS 22 <i>Plus</i>	Design: Three-Dimensional	3.0	CSU,UC	CHEM 51	General Chemistry II		CSU,UC
-	Handle emergency or crisis situations		course from:			CHEM 60	Quantitative Chemical Analysis	5.0	CSU,UC
	Subject to many interruptions	ANIM 109	Advanced Principles of Animati	on 3.0		CHMT 1	Introduction to Chemical	3.0	
-	Requires decisions/actions related to end of life	ANIM 117	Animation Background Layout	3.0	CSU		Laboratory Technology		
	issues	ANIM 120	Script Development	3.0		CHMT 8	Work Experience in Chemical	1.0	- 2.0
	Exposed to products containing latex		for Animation			PLUS	Technology		
_	1 1 5	ANIM 131	Introduction to Gaming	3.0			o seven (6 - 7) units from:		
	Exposure to a highly charged emotional environment which can be stressful intense	ANIM 132	Modeling, Texture Mapping	3.0		MICR 22	Microbiology	4.0	CSU,UC
Fnal	ish Language Skills:	ANIM 172	and Lighting Motion Graphics, Compositing			PHIL 12	Ethics	3.0	CSU,UC
-	bugh proficiency in English is not a criteria for	AININI 172	and Visual Effects	3.0			<u>or</u>		
	ission into the Alcohol/Drug Counseling Program,	ANIM 175	Web Animation With Flash	3.0		PHIL 12H	Ethics - Honors		CSU,UC
	ents are encouraged to be able to speak, write and	ARTD 16	Drawing: Perspective		CSU,UC	SPCH 26	Interpersonal Communication	3.0	CSU,UC
	English to complete classes successfully and to		Total Units	34.5	'	CDCU 2CU	<u>or</u>	2.0	COLUC
ensu	re safety for themselves and for others.	Recommen	ded Electives:			SPCH 26H	Interpersonal Communication	3.0	CSU,UC
		AHIS 4	History of Western Art:				- Honors Total Units	22 N	- 34.0
			Prehistoric through Gothic					JJ.U	- 34.0

History of Western Art: Renaissance through Modern

AHIS 5

Architectural Technology - Design Concentration Architecture and Engineering Design Department Major S0207 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:

		ofrce	ARCH 10	Design I - Elements of Design	3.0	CSU
	/	ıl skills,	ARCH 11	Architectural Drawing	3.0	CSU,UC
	troub	ole-	ARCH 12	Architectural Materials	3.0	CSU
10	nes.			and Specifications		
			ARCH 13	Architectural Illustration	3.0	CSU,UC
			ARCH 16	Basic CAD and Computer	4.0	CSU,UC
	3.0			Application		
			ARCH 21	Design II - Architectural Design	3.0	CSU
	5.0	CSU,UC	ARCH 23	Architectural Presentations	3.0	CSU
			ARCH 27	Design III - Environmental Design	3.0	CSU,UC
	5.0	CSU,UC	ARCH 29	Design IV - Advanced Project	3.0	CSU
			ARCH 31	World Architecture I	3.0	CSU
	5.0	,	ARCH 32	World Architecture II	3.0	CSU,UC
		CSU,UC	PLUS			
5	5.0	CSU,UC	Select one (1) course from:		
	3.0		ARCH 15	Architectural Working	3.0	CSU
				Drawings - I		
	1.0 -	- 2.0	ARCH 18	Architectural Computer	3.0	
				Aided Design Elements		
			PLUS			
				1) course from:		
	4.0		ARCH 14	Building and Zoning Codes	3.0	
	3.0	CSU,UC	ARCH 15	Architectural Working	3.0	CSU
	~ ~	cc11 11 c		Drawings - I		
	3.0		ARCH 18	Architectural Computer	3.0	
	3.0	CSU,UC		Aided Design Elements		
	~ ~	cc11.11c	ARCH 26	Architectural CAD	3.0	
	3.0	CSU,UC		Working Drawings		
			ARCH 28	Architectural CAD	3.0	CSU
	33.0	- 34.0		Illustration and Animation		
			ARCH 89	Architectural Work Experience	1.0	
			ARCH 90	Architectural Work Experience	2.0	
				Soction	。	71

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| INSP 70                                                                                                   | Elements of Construction<br>Total Units                                                                                                                                                                                                                                                               | 3.0 CSU<br><b>38.0 - 40.0</b>          | EDT 20<br>INSP 70                                                                                        |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------|
| ARTD 15A<br>ARTD 20<br>ARTS 22<br>BIOL 6<br>ENGL 1C<br>MATH 150<br>PHYS 2AG<br>ENGL 1C, M<br>for transfer | ded Electives:<br>Drawing: Beginning<br>Design: Two Dimensional<br>Design: Three-Dimensional<br>Humans and the Environmen<br>Critical Thinking and Writing<br>Trigonometry<br>General Physics<br>IATH 150, and PHYS 2AG are ty<br>to a professional school of arc<br>nents with the transfer institut | ypically required<br>hitecture. Verify | PLUS<br>Select on<br>ARCH 13<br>ARCH 21<br>ARCH 23<br>ARCH 31<br>ARCH 32<br>ARCH 89<br>EDT 26<br>INSP 71 |
|                                                                                                           | ectural Technology                                                                                                                                                                                                                                                                                    |                                        | Recommo                                                                                                  |

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:*

| ARCH 10 | Design I - Elements of Design | 3.0 | CSU    | There are no |
|---------|-------------------------------|-----|--------|--------------|
| ARCH 11 | Architectural Drawing         | 3.0 | CSU,UC | Requirer     |
| ARCH 12 | Architectural Materials       | 3.0 | CSU    | Required co  |
|         | and Specifications            |     |        | AERO 23      |
| ARCH 14 | Building and Zoning Codes     | 3.0 |        | AERO 24      |
| ARCH 15 | Architectural Working         | 3.0 | CSU    | AERO 26      |
|         | Drawings - I                  |     |        | AERO 27      |
| ARCH 16 | Basic CAD and Computer        | 4.0 | CSU,UC |              |
|         | Application                   |     |        | AERO 29      |
| ARCH 18 | Architectural Computer        | 3.0 |        | AERO 30      |
|         | Aided Design Elements         |     |        | AIRT 41      |
| ARCH 26 | Architectural CAD             | 3.0 |        |              |
|         | Working Drawings              |     |        | AIRT 42A     |
| ARCH 28 | Architectural CAD             | 3.0 | CSU    | AIRT 42B     |
|         | Illustration and Animation    |     |        | AIRT 43      |
| ARCH 29 | Design IV - Advanced Project  | 3.0 | CSU    | CISB 11      |
|         |                               |     |        | TRAN 17      |
|         |                               |     |        |              |

| EDT 20                                                                                                                                                                                                                                                                        | Technical Descriptive Geometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.0                                                                                                                  |                                                                                                                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--|
| INSP 70                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                      |                                                                                                                    |  |
| PLUS                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                      |                                                                                                                    |  |
| Select one                                                                                                                                                                                                                                                                    | (1) course from:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |                                                                                                                    |  |
| ARCH 13                                                                                                                                                                                                                                                                       | Architectural Illustration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      | CSU,UC                                                                                                             |  |
| ARCH 21                                                                                                                                                                                                                                                                       | Design II - Architectural Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      | CSU                                                                                                                |  |
| ARCH 23                                                                                                                                                                                                                                                                       | Architectural Presentations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                      | 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<br>and CAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.0                                                                                                                  | CSU                                                                                                                |  |
| INSP 71                                                                                                                                                                                                                                                                       | Construction Estimating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.0                                                                                                                  | CSU                                                                                                                |  |
|                                                                                                                                                                                                                                                                               | Total Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 38.0                                                                                                                 | - 40.0                                                                                                             |  |
| Recommen                                                                                                                                                                                                                                                                      | nded Electives:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                      |                                                                                                                    |  |
| MATH 150                                                                                                                                                                                                                                                                      | Trigonometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |                                                                                                                    |  |
| PHYS 2AG                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                      |                                                                                                                    |  |
|                                                                                                                                                                                                                                                                               | AND PHYS 2AG typically are requir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                      | transfer                                                                                                           |  |
|                                                                                                                                                                                                                                                                               | sional school of architecture. Verify                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | all                                                                                                                  |                                                                                                                    |  |
| requiremer                                                                                                                                                                                                                                                                    | nts with the transfer institution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                      |                                                                                                                    |  |
| Aeronau<br>and Trav<br>Major SC<br>This curricul<br>Administrat                                                                                                                                                                                                               | lum meets the requirements of the F<br>ion Collegiate Training Initiative (CTI).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Unde                                                                                                                 | r an                                                                                                               |  |
| Aeronau<br>and Trav<br>Major SC<br>This curricul<br>Administrat<br>educational<br>program pr<br>Students co<br>by the colle                                                                                                                                                   | tics, Transportation<br>(el Department<br>2910<br>lum meets the requirements of the F<br>ion Collegiate Training Initiative (CTI).<br>partnership agreement with the FA/<br>epares students for broad-based avia<br>impleting this CTI program may be re<br>ge for hiring by the FAA as air traffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unde<br>A, this<br>tion ca<br>comm<br>contro                                                                         | r an<br>CTI<br>ireers.<br>iended                                                                                   |  |
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| Aeronau<br>and Trav<br>Major SC<br>This curricul<br>Administrat<br>educational<br>program pr<br>Students co<br>by the colle<br>There are n<br><b>Required</b><br>AERO 23<br>AERO 24<br>AERO 26<br>AERO 27<br>AERO 29<br>AERO 29<br>AERO 30                                    | tics, Transportation<br>(el Department<br>2910)<br>lum meets the requirements of the Fi<br>ion Collegiate Training Initiative (CTI).<br>partnership agreement with the FA/<br>epares students for broad-based avia<br>impleting this CTI program may be re<br>ge for hiring by the FAA as air traffic<br>o prerequisites or enrollment limitation<br>ments for the Major<br>ourses:<br>Primary Pilot Ground School<br>Navigation<br>Aviation Weather<br>Aviation Safety<br>and Human Factors<br>Federal Aviation Regulations<br>Instrument Ground School                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unde<br>A, this<br>tion ca<br>comm<br>contro<br>ons.<br>4.0<br>3.0<br>3.0<br>3.0<br>2.0<br>3.0                       | r an<br>CTI<br>irreers.<br>nended<br>illers.<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU                      |  |
| Aeronau<br>and Trav<br>Major SC<br>This curricul<br>Administrat<br>educational<br>program pr<br>Students co<br>by the colle<br>There are n<br><b>Required</b><br>AERO 23<br>AERO 24<br>AERO 26<br>AERO 27<br>AERO 29<br>AERO 29<br>AERO 30                                    | tics, Transportation<br>(el Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partm | Unde<br>A, this<br>tion ca<br>comm<br>contro<br>ons.<br>4.0<br>3.0<br>3.0<br>3.0<br>2.0<br>3.0                       | r an<br>CTI<br>irreers.<br>hended<br>illers.<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU        |  |
| Aeronau<br>and Trav<br>Major SC<br>This curricul<br>Administrat<br>educational<br>program pr<br>Students co<br>by the colle<br>There are n<br><b>Required</b><br>AERO 23<br>AERO 24<br>AERO 26<br>AERO 27<br>AERO 29<br>AERO 29<br>AERO 30<br>AIRT 41                         | tics, Transportation<br>(el Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partment<br>partm | Unde<br>A, this<br>tion ca<br>comm<br>contro<br>ons.<br>4.0<br>3.0<br>3.0<br>3.0<br>2.0<br>3.0<br>3.0<br>3.0         | r an<br>CTI<br>irreers.<br>hended<br>illers.<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU        |  |
| Aeronau<br>and Trav<br>Major SC<br>This curricul<br>Administrat<br>educational<br>program pr<br>Students co<br>by the colle<br>There are n<br><b>Required</b><br>AERO 23<br>AERO 24<br>AERO 24<br>AERO 24<br>AERO 24<br>AERO 27<br>AERO 29<br>AERO 29<br>AERO 30<br>AIRT 41   | tics, Transportation<br>(el Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>partmenship agreement with the FA/<br>epares students for broad-based avia<br>impleting this CTI program may be re-<br>ge for hiring by the FAA as air traffic<br>o prerequisites or enrollment limitation<br>ments for the Major<br>ourses:<br>Primary Pilot Ground School<br>Navigation<br>Aviation Weather<br>Aviation Weather<br>Aviation Safety<br>and Human Factors<br>Federal Aviation Regulations<br>Instrument Ground School<br>Aircraft Recognition<br>and Performance<br>Terminal Air Traffic Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unde<br>A, this<br>tion ca<br>comm<br>contro<br>ons.<br>4.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0  | r an<br>CTI<br>irreers.<br>hended<br>illers.<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU |  |
| Aeronau<br>and Trav<br>Major SC<br>This curricul<br>Administrat<br>educational<br>program pr<br>Students co<br>by the colle<br>There are n<br><b>Required</b><br>AERO 23<br>AERO 24<br>AERO 26<br>AERO 27<br>AERO 29<br>AERO 29<br>AERO 30<br>AIRT 41<br>AIRT 42A<br>AIRT 42B | tics, Transportation<br>(el Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>Department<br>partments for transmith<br>partments for the Major<br>Department<br>Department for the Major<br>Department<br>Department for the Major<br>Department for the formant for the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unde<br>A, this<br>comm<br>contro<br>ons.<br>4.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3 | r an<br>CTI<br>irreers.<br>hended<br>illers.<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU |  |

|                     | Total Units                                                             | 35.0             | BUSA 7     | Principles of Accounting                                                   | 5.0  | CSU,UC |
|---------------------|-------------------------------------------------------------------------|------------------|------------|----------------------------------------------------------------------------|------|--------|
| Recomme             | nded Electives:                                                         |                  |            | - Financial                                                                |      |        |
| AERO 25             | Commercial Pilot Ground Schoo                                           |                  | BUSM 10    | Principles of Continuous                                                   | 3.0  |        |
| AERO 28             | Aircraft and Engines                                                    |                  |            | Quality Improvement                                                        |      |        |
| AERO 40             | Flight                                                                  |                  | BUSM 20    | Principles of Business                                                     | 3.0  | CSU,UC |
| AERO 40L            | Flight Laboratory                                                       |                  | BUSM 51    | Principles of International                                                | 3.0  | CSU    |
| BUSM 60             | Human Relations in Business                                             |                  |            | Business                                                                   |      |        |
|                     |                                                                         |                  | BUSM 60    | Human Relations in Business                                                |      | CSU    |
| Buildi              | ng Automation                                                           |                  | BUSM 61    | Business Organization                                                      | 3.0  | CSU    |
|                     | litioning, Welding                                                      |                  |            | and Management                                                             |      |        |
| and Wat             | er Technologies                                                         |                  | BUSM 62    | Human Resource Management                                                  |      |        |
| Major S             |                                                                         |                  | BUSS 36    | Principles of Marketing                                                    |      | CSU    |
|                     | am is designed to prepare the stu                                       |                  | CISB 15    | Microcomputer Applications                                                 |      | CSU,UC |
|                     | he fields of Building Automation,                                       |                  |            | Total Units                                                                | 30.0 |        |
|                     | ent, and Green Building Technolog<br>bachelor's degree (transfer progra |                  | Recommen   | nded Electives:                                                            |      |        |
|                     | th an advisor to discuss transferal                                     |                  | BUSM 81    | Work Experience in Business                                                |      |        |
| course.             |                                                                         |                  | BUSM 85    | Special Issues in Business                                                 |      |        |
| Require             | ments for the Major                                                     |                  | BUSS 85    | Special Issues in Marketing                                                |      |        |
| Required            |                                                                         |                  |            |                                                                            |      |        |
| AIRC20              | Refrigeration Fundamentals                                              | 3.0              | Busine     | ess: Retail Manageme                                                       | ent  |        |
| AIRC25              | Electrical Fundamentals for A/C                                         | 4.0              |            | ing and Management Dep                                                     | artm | ent    |
|                     | & Refrigeration                                                         |                  | Major SO   |                                                                            |      |        |
| AIRC31              | Commercial Electrical for A/C                                           | 4.0              |            | m exposes students to the busines:<br>il distribution. Students become far |      |        |
|                     | & Refrigeration                                                         |                  |            | etail management as well as the la                                         |      |        |
| AIRC34              | Advanced Mechanical                                                     | 4.0              |            | anging field. Completion of this pro                                       |      |        |
|                     | Refrigeration                                                           | 25               |            | earch for an entry-level job in retail                                     |      |        |
| AIRC61              | Building Automation<br>Fundamentals                                     | 2.5              |            | ments for the Major                                                        |      | 5      |
| AIRC63              | Building Control Networks                                               | 3.0              | Required o | -                                                                          |      |        |
| AIRC65              | Building Automation Network                                             | 3.0              | BUSA 7     | Principles of Accounting                                                   | 5.0  | CSU,UC |
|                     | & Programming                                                           |                  |            | - Financial                                                                |      |        |
| AIRC67              | Energy Management                                                       | 4.0              |            | <u>or</u>                                                                  |      |        |
| CISN11              | Telecommunications/Networkin                                            | ig 4.0           | BUSA 72    | Bookkeeping - Accounting                                                   | 5.0  |        |
| CISW41              | XML Secure Programming                                                  | 3.0              | BUSA 11    | Fundamentals of Accounting                                                 | 3.0  |        |
| CISW49              | Service Oriented Architecture                                           | 3.0              | BUSM 60    | Human Relations in Business                                                | 3.0  | CSU    |
|                     | Concepts & Practice                                                     |                  | BUSM 61    | Business Organization                                                      | 3.0  | CSU    |
|                     | Total Units                                                             | 37.5             |            | and Management                                                             |      |        |
|                     |                                                                         |                  | BUSM 62    | Human Resource Management                                                  | 3.0  |        |
|                     | ess: Management                                                         |                  | BUSO 25    | Business Communications                                                    | 3.0  | CSU    |
|                     | ing and Management Depa                                                 | artment          | BUSO 26    | Oral Communications                                                        | 3.0  |        |
| Major S             |                                                                         |                  |            | for Business                                                               |      |        |
|                     | am is intended to prepare studen                                        |                  | BUSS 36    | Principles of Marketing                                                    |      | CSU    |
|                     | ent following graduation. Student degree (transfer program) should      |                  | CISB 15    | Microcomputer Applications                                                 |      | CSU,UC |
|                     | or or advisor to discuss transferabi                                    |                  | FASH 62    | Retail Store Management                                                    | 3.0  | CSU    |
|                     |                                                                         | incy of courses. |            | and Merchandising                                                          |      |        |
| Require<br>Required | ments for the Major                                                     |                  |            | <u>or</u>                                                                  |      |        |
| nequired            | .001363.                                                                |                  | BUSS 50    | Retail Store Management                                                    | 3.0  |        |
|                     |                                                                         |                  | 1          |                                                                            |      |        |

|                       |                                                                            |             |              |                    |                                                               |             |            | -        |
|-----------------------|----------------------------------------------------------------------------|-------------|--------------|--------------------|---------------------------------------------------------------|-------------|------------|----------|
| Child [               | Development                                                                |             |              | CHLD 62            | Music and Motor Developmer<br>for Young Children              | t           |            | Tł<br>co |
|                       | velopment                                                                  |             |              |                    | 5                                                             |             |            | d        |
| Major S1              | •                                                                          |             |              | CHLD 63            | Creative Sciencing and Math<br>for Young Children             |             |            | pi       |
|                       | am introduces students to the stud                                         | ly of       | young        | CHLD 71A           | Administration of Child Devel                                 | nmont       |            | W        |
|                       | nd their education and prepares st                                         |             |              |                    | Programs                                                      | pinent      |            | _        |
|                       | nt following graduation in the fiel                                        |             |              | CHLD 71B           | Management/Marketing/Pers                                     | onnel       |            | C        |
|                       | ent. An Associate in Science degree                                        |             |              |                    | for ECD Programs                                              | onner       |            | S        |
|                       | are offered. Students desiring a b                                         |             | or's         | CHLD 72            | Teacher, Parent, and Child Rela                               | tionshir    | s          | C        |
|                       | ansfer program) should consult wi<br>or advisor to discuss transferability |             |              | CHLD 73            | Infant/Toddler Care and Devel                                 |             |            | N        |
|                       |                                                                            | 010         | Juises.      |                    |                                                               | •••••••     |            | . Tł     |
| Require<br>Required o | ments for the Major                                                        |             |              | Comm               | ercial Flight                                                 |             |            | р        |
| HLD 1                 | Child, Family and Community                                                | 3.0         | CSU,UC       |                    | tics, Transportation                                          |             |            | Tł       |
| HLD 5                 | Principles/Practices                                                       |             | CSU          |                    | el Department                                                 |             |            | er       |
|                       | in Child Development Programs                                              | 5.0         | 0.00         | Major S0           |                                                               |             |            | St<br>St |
| HLD 6                 | Survey of Child Development                                                | 30          | CSU          |                    | ercial Flight curriculum prepare                              |             |            | tr       |
|                       | Curriculum                                                                 | 5.0         | 200          |                    | aircraft pilots as well as related                            |             |            | 6        |
| HLD 10                | Child Growth and Development                                               | 3.0         | CSU.UC       |                    | s in aviation. Students have the                              |             |            |          |
|                       | <u>or</u>                                                                  |             | ,            |                    | pilot license is not required for                             |             |            | S        |
| HLD 10H               | Child Growth and Development                                               | 3.0         | CSU,UC       |                    | ble for career advancement.                                   | 5,0000      |            | d        |
|                       | - Honors                                                                   |             |              |                    | m prepares students for milita                                | rv and o    | ivilian    | S        |
| HLD 64                | Health, Safety and Nutrition                                               | 3.0         | CSU          |                    | reers through transfer program                                |             |            | S        |
|                       | of Young Children                                                          |             |              |                    | ation curricula throughout the                                |             |            | R        |
| HLD 66                | Early Childhood Development                                                | 2.0         | CSU          | concurrent         | flight training, students may a                               | chieve t    | he         | R        |
|                       | Observation                                                                |             |              |                    | l pilot certificate and instrume                              | nt rating   | ļ          | 0        |
| HLD 66L               | Early Childhood Development                                                | 1.0         | CSU          | simultaneo         | usly with the A.S. degree.                                    |             |            | C        |
|                       | Observation Laboratory                                                     |             |              |                    | ments for the Major                                           |             |            | C        |
| HLD 67                | Early Childhood Development                                                | 2.0         | CSU          | Required c         |                                                               |             |            | C        |
|                       | Participation                                                              |             |              | AERO 23            | Primary Pilot Ground School                                   |             | CSU        |          |
| HLD 67L               | Early Childhood Development                                                | 1.0         | CSU          | AERO 24            | Navigation                                                    |             | CSU        | C        |
|                       | Participation Laboratory                                                   |             |              | AERO 25            | Commercial Pilot Ground Scho                                  |             |            | B        |
| HLD 68                | Children With Special Needs                                                |             | CSU          | AERO 26            | Aviation Weather                                              |             | CSU        |          |
| HLD 69                | Early Childhood Development                                                | 2.0         | CSU          | AERO 27            | Aviation Safety                                               | 3.0         | CSU        | B        |
|                       | Field Work Seminar                                                         |             |              |                    | and Human Factors                                             | 2.0         | <i>ccu</i> | В        |
| HLD 84                | Guidance and Discipline                                                    | 1.0         | CSU          | AERO 28            | Aircraft and Engines                                          |             | CSU        | D        |
|                       | in Child Development Settings                                              |             | <b>CC</b> 11 | AERO 29<br>AERO 30 | Federal Aviation Regulations<br>Instrument Ground School      |             | CSU<br>CSU | P        |
| HLD 91                | Early Childhood Development                                                | 1.0         | CSU          | TRAN 17            | Air Transportation                                            |             | CSU        | S        |
|                       | Field Work                                                                 |             |              |                    | Total Units                                                   | 3.0<br>27.0 | (30        | N        |
| ata. Than             | <b>Total Units</b><br>courses are acceptable for the Chil                  | <b>28.0</b> |              |                    |                                                               | 27.0        |            | C        |
|                       | nt requirements leading to the Chil                                        |             |              |                    | ded Electives:                                                |             |            |          |
|                       | nt Permit.                                                                 | u           |              | AERO 40            | Flight                                                        |             |            | C        |
|                       | nded Electives:                                                            |             |              | AERO 40L           | Flight Laboratory                                             |             |            |          |
|                       | Multicultural Education: Anti-Bia                                          | c Dore      | nactivo      | AERO 41            | Basic Flight Simulator Laborat                                |             |            | C        |
| HLD 50                |                                                                            |             | pective      | AERO 58            | Flight Instructor Ground Scho                                 |             |            |          |
| CHLD 51<br>CHLD 61    | Early Literacy in Child Developme<br>Language Arts & Art Media for Yo      |             | Childron     | AIRT 41<br>CISB 11 | Aircraft Recognition and Perfo<br>Computer Information System |             |            | C        |
|                       |                                                                            | 11111111    | nunten       | 1 1 1 1 2 1 1 1    | a amplitor information Suctor                                 | c           |            | 1        |

ommercial Flight faculty recommend that students lement their studies with selected elective courses en from the list above. Students should meet with a ssor of commercial flight to help them determine electives would best suit their career plans.

### mputer - Database Management tems

### puter Information Systems Department or S0706

Computer Information Systems major is a two-year ram leading to the Associate in Science (A.S.) degree. program is designed to prepare students for oyment in a computer field following graduation. ents wishing a Bachelors' degree (transfer program) Id meet with a counselor or advisor to discuss ferability of courses.

ework includes a list of core courses and additional es for each concentration. The Database Management ms Concentration includes coursework in the design, opment and maintenance of relational databases. ents choosing this concentration have the option of ting either the Microsoft or Oracle concentration.

### uirements for the Major ired core courses:

| negunea     | ne 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        |                                    |     |        |  |
|             | of the following two concentration | ns: |        |  |
| Microsoft C | oncentration:                      |     |        |  |
| 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 Concentration:**

| CISD 31 | Database Management - Oracle | 4.0         |
|---------|------------------------------|-------------|
| CISD 32 | Oracle Forms and Reports     | 3.0         |
| CISD 40 | Database Design              | 3.0         |
|         | Total Units                  | 28.0 - 35.0 |

### **Computer Graphics** Design/Photography **Commercial and Entertainment Arts** Maior 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:**

|      | GRAP 1                                                               | Computer Graphics Lab                                                                                                                                                                                                                                                                    | 1.0               |        |
|------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|
|      | GRAP 10                                                              | Photo Editing with Photoshop                                                                                                                                                                                                                                                             | 3.0               |        |
|      | GRAP 12                                                              | Advanced Photo Editing                                                                                                                                                                                                                                                                   | 3.0               |        |
|      |                                                                      | with Photoshop                                                                                                                                                                                                                                                                           |                   |        |
| JUC, | GRAP 14                                                              | Digital Color Management                                                                                                                                                                                                                                                                 | 3.0               |        |
| ,UC  | GRAP 16                                                              | Digital Image Design                                                                                                                                                                                                                                                                     | 3.0               |        |
| ,UC  |                                                                      | with Illustrator & Freehand                                                                                                                                                                                                                                                              |                   |        |
| ,00  | GRAP 18                                                              | Advanced Image Design                                                                                                                                                                                                                                                                    | 3.0               |        |
|      |                                                                      | - 3D Modeling Techniques                                                                                                                                                                                                                                                                 |                   |        |
|      | GRAP 20                                                              | Applying Photos                                                                                                                                                                                                                                                                          | 3.0               |        |
|      |                                                                      | and Images in Multimedia                                                                                                                                                                                                                                                                 |                   |        |
|      | GRAP 28                                                              | Digital Portfolio                                                                                                                                                                                                                                                                        | 2.0               |        |
|      | PHOT 10                                                              | Beginning Photography                                                                                                                                                                                                                                                                    | 3.0               | CSU,UC |
|      | PHOT 17                                                              | Photocommunication                                                                                                                                                                                                                                                                       | 3.0               |        |
|      |                                                                      |                                                                                                                                                                                                                                                                                          |                   |        |
|      |                                                                      | Total Units                                                                                                                                                                                                                                                                              | 27.0              |        |
|      | Recommen                                                             | Total Units<br>ded Electives:                                                                                                                                                                                                                                                            | 27.0              |        |
|      | <b>Recommen</b><br>AHIS 1                                            |                                                                                                                                                                                                                                                                                          | 27.0              |        |
|      |                                                                      | ded Electives:                                                                                                                                                                                                                                                                           | 27.0              |        |
|      |                                                                      | ded Electives:<br>Understanding the Visual Arts                                                                                                                                                                                                                                          | 27.0              |        |
|      | AHIS 1                                                               | ded Electives:<br>Understanding the Visual Arts<br><u>or</u>                                                                                                                                                                                                                             |                   |        |
|      | AHIS 1<br>Artb 1                                                     | <i>ded Electives:</i><br>Understanding the Visual Arts<br><u>or</u><br>Understanding the Visual Arts                                                                                                                                                                                     | outer             |        |
|      | AHIS 1<br>ARTB 1<br>COMP 10                                          | ded Electives:<br>Understanding the Visual Arts<br><u>or</u><br>Understanding the Visual Arts<br>Operating the Macintosh Comp<br>Work Experience in Computer O<br>Laboratory Studies:                                                                                                    | outer             |        |
|      | AHIS 1<br>ARTB 1<br>COMP 10<br>GRAP 24                               | ded Electives:<br>Understanding the Visual Arts<br><u>or</u><br>Understanding the Visual Arts<br>Operating the Macintosh Comp<br>Work Experience in Computer O<br>Laboratory Studies:<br>Black and White Photography                                                                     | uter<br>Graphics  |        |
|      | AHIS 1<br>ARTB 1<br>COMP 10<br>GRAP 24<br>PHOT 1<br>PHOT 2           | ded Electives:<br>Understanding the Visual Arts<br><u>or</u><br>Understanding the Visual Arts<br>Operating the Macintosh Comp<br>Work Experience in Computer O<br>Laboratory Studies:<br>Black and White Photography<br>Laboratory Studies: Color Photo                                  | outer<br>Graphics |        |
|      | AHIS 1<br>ARTB 1<br>COMP 10<br>GRAP 24<br>PHOT 1                     | ded Electives:<br>Understanding the Visual Arts<br><u>or</u><br>Understanding the Visual Arts<br>Operating the Macintosh Comp<br>Work Experience in Computer O<br>Laboratory Studies:<br>Black and White Photography<br>Laboratory Studies: Color Photo<br>Digital Cameras and Compositi | outer<br>Graphics |        |
|      | AHIS 1<br>ARTB 1<br>COMP 10<br>GRAP 24<br>PHOT 1<br>PHOT 2           | ded Electives:<br>Understanding the Visual Arts<br><u>or</u><br>Understanding the Visual Arts<br>Operating the Macintosh Comp<br>Work Experience in Computer O<br>Laboratory Studies:<br>Black and White Photography<br>Laboratory Studies: Color Photo                                  | outer<br>Graphics |        |
|      | AHIS 1<br>ARTB 1<br>COMP 10<br>GRAP 24<br>PHOT 1<br>PHOT 2<br>PHOT 2 | ded Electives:<br>Understanding the Visual Arts<br><u>or</u><br>Understanding the Visual Arts<br>Operating the Macintosh Comp<br>Work Experience in Computer O<br>Laboratory Studies:<br>Black and White Photography<br>Laboratory Studies: Color Photo<br>Digital Cameras and Compositi | outer<br>Graphics |        |

### Computer and Networking Technology

### Electronics and Computer Technology Department Major S0725

The Computer and Networking Technology program prepares students to become computer and networking service technicians. The program provides foundations in basics electricity and electronics, operating systems, computer service and troubleshooting, and customer relations, as well as more advanced training in networks, servers, and security. Students learn to install, configure, maintain, troubleshoot, and repair computers and networks. Students will become fully prepared to take the A+, Network+, Server+, and Security+ certification tests sponsored by CompTIA and offered at testing centers throughout the country. These industry certifications are recognized worldwide as benchmarks for the computer and networking technician. Further, students will have requisite skills upon which to seek additional I.T. certifications available for the computer and networking fields. Two certificate programs in Computer and Networking Technology are also available. Please see the "Certificates" section of the college catalog for descriptions and course requirements.

# Requirements for the Major *Required courses:*

|          | Total Units                  | 43.0 | - 44.0 |
|----------|------------------------------|------|--------|
|          | for the Technician           |      |        |
| TECH 60  | Customer Relations           | 1.0  |        |
| ELEC 56  | Digital Electronics          | 4.0  | CSU    |
| ELEC 50B | Electronic Circuits (AC)     | 4.0  | CSU    |
| ELEC 50A | Electronic Circuits (DC)     | 4.0  | CSU    |
| CISB 15  | Microcomputer Applications   | 4.0  | CSU,UC |
|          | or                           |      |        |
|          | in Microcomputers            |      |        |
| ELEC 11  | Technical Applications       | 3.0  | CSU    |
|          | Certification Preparation    |      |        |
| CNET 66  | Security+                    | 2.0  |        |
|          | Certification Preparation    |      |        |
| CNET 64  | Server+                      | 2.0  |        |
|          | Certification Preparation    |      |        |
| CNET 62  | Network+                     | 2.0  |        |
| CNET 60  | A+ Certification Preparation | 2.0  |        |
| CNET 58  | Windows Server               | 3.0  |        |
| CNET 56  | Computer Networks            | 4.0  |        |
| CNET 54  | PC Troubleshooting           | 4.0  |        |
| CNET 52  | PC Operating Systems         | 4.0  |        |
| CNET 50  | PC Servicing                 | 4.0  |        |

### Recommended Electives:

- ELEC 51 Electronic Devices
- ELEC 74 Microprocessor Systems

### Computer Network Administration and Security Management Computer Information Systems Department

### Major S0701 Computer Network Administration and Security Management is a two-year program leading to the Associate in Science (A.S.) degree. It prepares individuals for employment in the computer/information technology field in such areas as network administrator and security

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

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

### Requirements for the Major

| Required o | ourses:                         |       |        |
|------------|---------------------------------|-------|--------|
| CISN 11    | Telecommunications              | 4.0   | CSU    |
|            | Networking                      |       |        |
| CISN 24    | Window Server Network and       | 4.0   | CSU    |
|            | Security Administration         |       |        |
| CISN 51    | Cisco CCNA Networking           | 4.0   | CSU    |
|            | and Routing                     |       |        |
| CISS 21    | Network Vulnerabilities         | 4.0   | CSU    |
|            | and Countermeasures             |       |        |
| CISS 23    | Network Analysis,               |       | CSU    |
|            | Intrusim Detection/Prevention S | ystem | IS     |
| CISS 25    | Network Security and Firewalls  | 4.0   | CSU    |
| CISS 29    | CNSAM Service Learning          | 1.0   |        |
| PLUS       |                                 |       |        |
| Select one | (1) course from:                |       |        |
| CISB 11    | Computer Information Systems    | 3.5   | CSU,UC |
| CISN 21    | Windows Operating System        | 4.0   | CSU    |
| CISN 31    | Linux Operating System          | 4.0   | CSU    |
| CISN 34    | LINUX Networking and Security   | 4.0   | CSU    |
|            | Total Units                     | 27.5  | - 28.0 |

### **Computer Programming**

### Computer Information Systems Department Major S7302

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.

Coursework 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 |        |
| 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     | 5.0 |        |
|              | - Financial                  |     |        |
| CISD 11      | Database Management          | 4.0 |        |
|              | - Microsoft Access           |     |        |
|              | <u>or</u>                    |     |        |
| CISD 21      | Database Management          | 4.0 |        |
|              | - Microsoft SQL Server       |     |        |
|              | <u>or</u>                    |     |        |
| CISD 31      | Database Management - Oracle | 4.0 |        |
| PLUS         | -                            |     |        |
| One of the f | ollowing concentrations:     |     |        |
| <b>(</b> ++: |                              |     |        |
| CISP 31      | Programming in C++           | 4.0 |        |
| CISP 34      | Advanced C++ Programming     | 4.0 |        |
| Visual Basi  |                              |     |        |
| CISP 11      | Programming in Visual Basic  | 4.0 |        |
| CISP 14      | Advanced Visual Basic        | 4.0 |        |
|              |                              |     |        |
|              |                              |     |        |

### Programming Java:

|         | Total Units                | 32.0 - 34.0 |
|---------|----------------------------|-------------|
| CISP 44 | Advanced Programming in C# | 4.0         |
| CISP 41 | Programming in C#          | 4.0         |
| С#:     |                            |             |
| CISP 24 | Advanced Java Programming  | 4.0         |
| CISP 21 | Programming in Java        | 4.0         |
| Juvu.   |                            |             |

### Construction Inspection Architecture and Engineering Design Department Major 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 |
|   | INSP 87  | Fundamentals of Construction   | 3.0  |     |
|   |          | Inspection                     |      |     |
|   |          | Total Units                    | 18.0 |     |
|   | Recommen | ded Electives:                 |      |     |
|   | ARCH 11  | Architectural Drawing          |      |     |
|   | ARCH 15  | Architectural Working Drawings | 5-1  |     |
|   | INSP 67  | Reading Construction Drawings  |      |     |
|   |          |                                |      |     |
|   |          |                                |      |     |

### Correctional Sciences Public Services Department Major S2103

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<br>Report Writing | 3.0     |          |
|---------|---------------------------------------------|---------|----------|
| CORS 10 | Introduction to Correctional                | 3.0     | CSU      |
| CORS 15 | Sciences                                    | 2.0     |          |
| CURS 15 | Control and Supervision<br>of the Offender  | 3.0     |          |
| CORS 20 | Correctional Law                            | 3.0     |          |
| CORS 25 | Probation and Parole                        | 3.0     |          |
| CORS 20 | Ethnic Relations in Corrections             | 3.0     |          |
| PLUS    |                                             | 5.0     |          |
|         | r (4) courses from:                         |         |          |
| ADJU 1  | The Administration                          | 3.0     | CSU,UC   |
|         | of Justice System                           |         |          |
| ADJU 2  | Principles and Procedures                   | 3.0     | CSU      |
|         | of the Justice System                       |         |          |
| ADJU 20 | Principles of Investigation                 | 3.0     | CSU      |
| ADJU 38 | Narcotics Investigation                     | 3.0     |          |
| ADJU 59 | Gangs and Corrections                       | 3.0     | CSU      |
| CORS 35 | Interviewing and Counseling                 | 3.0     |          |
|         | in Corrections                              |         |          |
| 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 for L           | aw      |          |
|         | Enforcement and Fire Science                |         |          |
| PE-F 51 | Agility Testing Preparation for L           | .aw     |          |
|         | Enforcement and Fire Science                |         |          |
| PE-F 52 | Fitness and Conditioning for La             | w Enfoi | rcement, |
|         | Fire Science and Forestry                   |         |          |

SPAN 66 Spanish for Fire and Police Personnel The Correctional Sciences faculty recommend that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Correctional Sciences to help them determine which electives would best suit their career plans.

### 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 Reauired courses:

| nequireu co                                                                                     | /4/ 505.                                                                                                                                                                                                             |             |          |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| CHLD 1                                                                                          | Child, Family and Community                                                                                                                                                                                          | 3.0         | CSU,UC   |
| CHLD 10                                                                                         | Child Growth and Development                                                                                                                                                                                         | 3.0         | CSU,UC   |
|                                                                                                 | <u>or</u>                                                                                                                                                                                                            |             |          |
| CHLD 10H                                                                                        | Child Growth and Development<br>- Honors                                                                                                                                                                             | 3.0         | CSU,UC   |
| 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                                                                                                                                                                                                 | 4.0         | CSU,UC   |
|                                                                                                 | <u>or</u>                                                                                                                                                                                                            |             |          |
| ENGL 1AH                                                                                        | Freshman Composition - Honors                                                                                                                                                                                        | 4.0         | CSU,UC   |
| MATH 71                                                                                         | Intermediate Algebra                                                                                                                                                                                                 | 5.0         |          |
|                                                                                                 | Total Units                                                                                                                                                                                                          | 24.0        |          |
|                                                                                                 | lotal Units                                                                                                                                                                                                          | 24.0        |          |
| Recommen                                                                                        | ded Electives:                                                                                                                                                                                                       | 24.0        |          |
| <b>Recommen</b><br>CHLD 51                                                                      |                                                                                                                                                                                                                      |             |          |
|                                                                                                 | ded Electives:                                                                                                                                                                                                       | ent         | Children |
| CHLD 51                                                                                         | ded Electives:<br>Early Literacy in Child Developme                                                                                                                                                                  | ent         | Children |
| CHLD 51<br>CHLD 64                                                                              | ded Electives:<br>Early Literacy in Child Developme<br>Health, Safety and Nutrition of Yo                                                                                                                            | ent         | Children |
| CHLD 51<br>CHLD 64<br>LIT 40<br>PE 3<br>Electron<br>Engine<br>Electroni<br>Technolo<br>Major S0 | ded Electives:<br>Early Literacy in Child Developme<br>Health, Safety and Nutrition of Yo<br>Children's Literature<br>First Aid and CPR<br>nics and Computer<br>ering Technology<br>cs and Computer<br>gy Department | ent<br>oung |          |

employment or for enhancement of existing skills in the

electronics field, or for transfer into B.S. programs in Electronics Technology or Industrial Technology offered in the CSU system. In addition to exposing students to core topics such as components and circuits, the program includes coursework in advanced areas including microcontrollers and interfacing, communications, and industrial electronic controls. Nearly all laboratories have new, state-of-the-art equipment to provide students with quality, hands-on learning experiences.

Students completing ECET degree and certificate programs possess ample skills to make them versatile employees. Typical technician-level job classifications include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician, and electronics technician. All students completing the degree program are automatically eligible to receive, without further examination, the 3rd class technician license from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.).

Several certificate programs in electronics technology are also available. Please see the "Certifications" section of the college catalog for descriptions and course requirements. There are no prerequisites or enrollment limitations. **Requirements for the Major Reauired courses:** ELEC 11 Technical Applications 3.0 CSU in Microcomputers ELEC 12 **Computer Simulation** 2.0 and Troubleshooting 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 Industrial Electronics 4.0 CSU ELEC 54A 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 3.0 CSU and Fabrication ELEC 74 Micro Controller Systems 4.0 CSU TECH 60 **Customer Relations** 1.0 for the Technician **Total Units** 44.0 **Recommended Electives:** CISP 11 Programming in Visual Basic EDT 11 Technical Engineering Drawing I ELEC 62 Advanced Surface Mount Assembly and Rewe 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 in Science degree in Emergency Medical Services.

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

# Requirements for the Major *Required courses:*

|      | FMC 4        |                                     | 10                |
|------|--------------|-------------------------------------|-------------------|
|      | EMS 1        | Fundamentals for Paramedics         | 4.0               |
|      | EMS 10       | Anatomy and Physiology              | 2.0               |
|      |              | for Paramedics                      |                   |
|      | EMS 20       | Emergency Cardiac Care              | 1.0               |
| J    |              | for Paramedics                      |                   |
|      | EMS 30       | Pharmacology for Paramedics         | 2.0               |
|      | EMS 40       | Cardiology for Paramedics           | 5.0               |
|      | EMS 50       | Paramedic Skills Competency         | 5.0               |
| J    | EMS 60       | EMS Theory for Paramedics           | 8.5               |
| J    | EMS 70       | Paramedic Clinical Internship       | 4.0               |
| J    | EMS 80       | Paramedic Field Externship          | 9.5               |
|      |              | Total Units                         | 41.0              |
| J    | Recommen     | ded Electives:                      |                   |
| J    | ADJU 1       | The Administration of Justice S     | ystem             |
|      | FIRE 1       | Fire Protection Organization        |                   |
| J    | PSYC 1A      | Introduction to Psychology          |                   |
| J    | SOC 1        | Sociology                           |                   |
|      | The Emerge   | ncy Medical Services faculty reco   | mmend that        |
| J    | students col | mplement their studies with sele    | cted elective     |
|      |              | sen from the list above. Students   |                   |
|      |              | essor of Emergency Medical Servi    |                   |
|      |              | mine which electives would best     | suit their career |
|      | plans.       |                                     |                   |
|      | Special Ir   | nformation                          |                   |
|      |              | n the program, students must r      |                   |
| work | grade of "C  | " (80%) or better in all courses,   | per state         |
| NOLK |              | . Before starting clinical rotation | ns, students      |
|      | must pass a  | a criminal background check.        |                   |
|      |              |                                     |                   |
|      |              |                                     |                   |

# PROGRAMS LEADING

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.

### Paramedic Program Readmission Policy

If the student fails any of the co-requisite courses, EMS 10 - EMS 60, he/she will be dropped from the programs. If the student wishes to repeat the program, a *Success Plan and Contract* will be developed with the faculty to increase the student's chances of success prior to re-entry. If the student withdraws or is dismissed from the program a second time, he/she will not be allowed to re-enter the Paramedic Program at Mt. SAC.

### 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.
- 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.

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

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

### Entrance Procedure:

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

- 1) Completion of all admission requirements
- 2) EMS-related experience
- 3) Scores on the English assessment and math placement tests
- Placement EMS-1, Fundamentals for Paramedics, and scores on college placement exam for English and math All Applicants are required to meet the Essential Functions for Success in the Paramedic Program.

### **Physical Demands:**

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers

- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

### Sensory Demands:

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

### Working Environment:

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

### English Language Skills:

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

### 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:

|    | neguneato | urses.                           |        |      |  |
|----|-----------|----------------------------------|--------|------|--|
|    | 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  | oleran | cing |  |
|    | EDT 16    | Basic CAD and Computer           | 4.0    | CSU  |  |
|    |           | Applications                     |        |      |  |
| es | EDT 18    | Engineering CAD Applications     | 4.0    | CSU  |  |
|    | EDT 20    | Technical Descriptive Geometry   | 3.0    | CSU  |  |
|    | EDT 24    | Engineering CAD 3-D Solids       | 3.0    | CSU  |  |
|    |           | and Surfaces                     |        |      |  |
|    | EDT 26    | Civil Engineering Technology     | 3.0    | CSU  |  |
|    |           | and CAD                          |        |      |  |
| /  | EDT 28    | Engineering CAD 3-D              | 3.0    | CSU  |  |
|    |           | Illustration/Animation           |        |      |  |
|    | 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   |      |  |
|    | Recommend | led Electives:                   |        |      |  |
|    | EDT 89    | Engineering Design Technology    |        |      |  |
|    |           | Work Experience                  |        |      |  |
|    | ENGR 8    | Properties of Materials          |        |      |  |
|    |           |                                  |        |      |  |
|    |           |                                  |        |      |  |

| Equipment Technology                                                                                          | Escrow Management                                    | Family and Consumer Sciences |                                          |                                               | Fashion Design       |                                                                                                                    |                                                         |            |              |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------|------------------------------------------|-----------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------|--------------|
| Agricultural Sciences Department                                                                              | Business Administration Department                   |                              | Consumer Science and Design Technologies |                                               |                      | Consum                                                                                                             | Consumer Science and Design Technologies                |            |              |
| Major S0118                                                                                                   | Major S0511 N                                        |                              |                                          | 309                                           |                      | Major S                                                                                                            | Major S1320                                             |            |              |
| The courses in equipment technology are designed to                                                           | This program is intended to prepare students for     |                              | This progra                              | m provides students with the ba               | sic skills           |                                                                                                                    | Exciting employment opportunities are available in both |            |              |
| enable students to prepare for a career in this essential                                                     | employment following graduation. Students wis        |                              |                                          | with the field of family and cons             |                      |                                                                                                                    | esign and costume design. In Sout                       |            |              |
| and diverse profession. This degree is part of our                                                            | bachelor's degree (transfer program) should cons     |                              |                                          | hich includes the needs of the h              | ,                    | · · · ·                                                                                                            | California, the apparel industry and the entertainment  |            |              |
| comprehensive Agricultural Sciences program. Our                                                              | a counselor or advisor to discuss transferability of | of courses.                  |                                          | its individual members. Student               |                      | industry support the largest number of employees and                                                               |                                                         |            |              |
| program is unique in that most courses provide hands-on                                                       | Requirements for the Major                           |                              | bachelor's o                             | degree (transfer program) should              | consult with         | contribute significantly to the economy of the region.<br>Expand your creative talents with this challenging major |                                                         |            |              |
| experience and are designed to give the student a<br>combination of practical skills and technical knowledge. | Required courses:                                    |                              |                                          | or advisor to discuss transferabi             | lity of courses      |                                                                                                                    | a career of your dreams. Students                       |            |              |
| Students who intend to transfer should meet with a                                                            | 1 5                                                  | 0 CSU,UC                     |                                          | nents for the Major                           |                      |                                                                                                                    | degree should consult with a cou                        |            |              |
| counselor or advisor to check the lower division                                                              | - Financial                                          |                              | Required co                              |                                               |                      | advicar an                                                                                                         | id the transfer institution.                            | IIISCIUI   | 01           |
| requirements in the catalog of the college or university                                                      | <u>or</u>                                            |                              | CHLD 10                                  | Child Growth and Development                  | 3.0 CSU,U            | •                                                                                                                  |                                                         |            |              |
| which they will attend and also the semester and year in                                                      | BUSA 72 Bookkeeping - Accounting 5.0                 | 0                            |                                          | <u>or</u>                                     |                      |                                                                                                                    | ments for the Major                                     |            |              |
| which courses are offered.                                                                                    |                                                      | 0 CSU,UC                     | CHLD 10H                                 | Child Growth and Development                  | 3.0 CSU,U            | FASH 8                                                                                                             | Introduction to Fashion                                 | 3.0        | CUL          |
| This program is intended to prepare students to become                                                        | BUSM 60 Human Relations in Business 3.0              | 0 CSU                        |                                          | - Honors                                      |                      | FASH 9                                                                                                             | History of Costume and Fashion                          |            |              |
| technicians for entry level positions or skills enhancement                                                   | BUSM 66 Small Business Management 3.0                | 0 CSU                        | FASH 10                                  | Clothing Fundamentals                         | 3.0 CSU              | FASH 9                                                                                                             | ,                                                       | 3.0<br>3.0 |              |
| in the operation, service, maintenance and repair of                                                          | BUSO 25 Business Communications 3.0                  | 0 CSU                        | FASH 15                                  | Fashion Strategies                            | 3.0 CSU              | FACU 10                                                                                                            | Clothing Construction I                                 | 3.0<br>3.0 |              |
| industrial and agricultural power equipment.                                                                  | BUSR 50 Real Estate Principles 3.0                   | 0 CSU                        | FASH 17                                  | Textiles                                      | 3.0 CSU,U            | FASH 12<br>FASH 15                                                                                                 | Clothing Construction II                                | 3.0<br>3.0 |              |
| Listed below are the courses needed to satisfy major                                                          | BUSR 51 Legal Aspects of Real Estate 3.0             | 0                            | FCS 41                                   | Life Management                               | 3.0 CSU              | FASH 15<br>FASH 17                                                                                                 | Fashion Strategies<br>Textiles                          |            | CSU,UC       |
| requirements. It is recommended that students consult                                                         | BUSR 53 Real Estate Finance 3.0                      | 0                            | FCS 80                                   | Financial Planning                            | 3.0 CSU              | FASH 17<br>FASH 20                                                                                                 | Illustration for Fashion                                | 3.0<br>3.0 | C30,0C       |
| with the department chairperson, counselor or advisor to                                                      | BUSR 76 Escrow Procedures I 3.0                      | 0                            |                                          | <u>or</u>                                     |                      | FASIT 20                                                                                                           | and Costume Design                                      | 5.0        |              |
| file an educational plan. For additional information, call                                                    | BUSR 77 Escrow Procedures II 3.0                     | 0                            | BUSA 71                                  | Financial Planning                            | 3.0 CSU              |                                                                                                                    | Patternmaking I                                         | 3.0        | <u>(</u> (1) |
| the Agricultural Sciences Department, ext. 4540                                                               | CISB 15 Microcomputer Applications 4.0               | 0 CSU,UC                     | ID 10                                    | Introduction to Interior Design               | 3.0 CSU              | FASH 21                                                                                                            | Fashion Design By Draping                               |            | CSU          |
| or visit the Mt. SAC Web site at                                                                              | CISI 11 Computer Keyboarding 4.0                     | 0 CSU                        | NF 20                                    | Principles of Foods With Lab                  | 3.0 CSU              | FASH 22<br>FASH 23                                                                                                 | Patternmaking II                                        | 3.0<br>3.0 |              |
| www.mtsac.edu/instruction/sciences/agriculture.                                                               | Total Units 40.0                                     | 0                            |                                          | <u>or</u>                                     |                      | FASH 25                                                                                                            | 5                                                       | 3.0<br>3.0 | <u>(())</u>  |
| Requirements for the Major<br>Required courses:                                                               | Recommended Electives:                               |                              | NF 62<br>NF 25                           | Meal Management<br>Essentials of Nutrition    | 3.0 CSU<br>3.0 CSU,U |                                                                                                                    | Fashion Computer-Assisted<br>Drawing                    | 5.0        | CSU          |
| AGAG 1 Food Production, Land Use 3.0 CSU,UC                                                                   | BUSA 8 Principles of Accounting - Manageria          | al                           | NF ZJ                                    |                                               | 3.0 (30,0)           | FASH 30                                                                                                            | Fashion Design and Product                              | 3.0        |              |
| and Politics - A Global Perspective                                                                           | BUSL 18 Business Law                                 |                              | NF 25H                                   | <u>or</u><br>Essentials of Nutrition - Honors | 3.0 CSU,U            |                                                                                                                    | Development I                                           |            |              |
| AGAG 59 Work Experience in Agriculture 1.0 - 4.0                                                              | <u>or</u>                                            |                              | NF 23H                                   | Cultural and Ethnic Foods                     | 3.0 CSU,U            |                                                                                                                    | Fashion Design and Product                              | 3.0        |              |
| AGOR 51 Tractor and Landscape 3.0 CSU                                                                         | BUSL 18H Business Law - Honors                       |                              | NF 20                                    |                                               | <b>30.0</b>          | •                                                                                                                  | Development II                                          |            |              |
| Equipment Operations                                                                                          | BUSM 62 Human Resource Management                    |                              | _                                        |                                               | 50.0                 | FASH 32                                                                                                            | Fashion Design and Product                              | 3.0        |              |
| AGOR 52 Hydraulics 3.0 CSU                                                                                    | BUSO 5 Business English                              |                              |                                          | ded Electives:                                |                      |                                                                                                                    | Development III                                         |            |              |
| AGOR 53 Small Engine Repair I 3.0 CSU                                                                         | BUSR 52 Real Estate Practice                         |                              | CHLD 1                                   | Child, Family and Community                   |                      |                                                                                                                    | Total Units                                             | 42.0       |              |
| AGOR 54 Small Engine Repair II 3.0 CSU                                                                        | <u>or</u>                                            |                              | FASH 12                                  | Advanced Clothing                             |                      | Recomme                                                                                                            | nded Electives:                                         |            |              |
| AGOR 55 Diesel Engine Repair 3.0 CSU                                                                          | BUSR 52D Real Estate Practice Work Experience        | 2                            | ID 29                                    | Interior Design Studio I                      |                      | FASH 24                                                                                                            | Fashion Patternmaking by Com                            | outer      |              |
| AGOR 55 Diesei Engline Repair 5.0 CSU<br>AGOR 56 Engine Diagnostics 3.0 CSU                                   | BUSR 57 Income Tax Aspects of Real Estate Inv        | vestments                    | ID 20                                    | Color and Design Theory I                     |                      | FASH 26                                                                                                            | Fashion Computer Assisted Desi                          |            |              |
| AGOR 57 Power Train Repair 3.0                                                                                | PSYC 1A Introduction to Psychology                   |                              |                                          |                                               |                      | FASH 35                                                                                                            | Special Topics in Fashion Design                        | -          |              |
| AGOR 71 Landscape Construction 3.0 CSU                                                                        | <u>or</u>                                            |                              |                                          |                                               |                      | FASH 81                                                                                                            | Work Experience in Fashion                              |            |              |
| Fundamentals                                                                                                  | PSYC 1AH Introduction to Psychology - Honors         |                              |                                          |                                               |                      | FASH 90                                                                                                            | Field Studies                                           |            |              |
| AGOR 72 Landscape Hardscape Applications3.0 CSU                                                               |                                                      |                              |                                          |                                               | FASH 91              | Field Studies - New York                                                                                           |                                                         |            |              |
| CISB 15 Microcomputer Applications 4.0 CSU,UC                                                                 |                                                      |                              |                                          |                                               |                      | FASH 92                                                                                                            | Field Studies - Fashion Capitals                        |            |              |
| Total Units 35.0 - 38.0                                                                                       |                                                      |                              |                                          |                                               |                      | FCS 41                                                                                                             | Life Management                                         |            |              |
|                                                                                                               |                                                      |                              |                                          |                                               |                      |                                                                                                                    | · · · J·                                                |            |              |
|                                                                                                               |                                                      |                              |                                          |                                               |                      |                                                                                                                    |                                                         |            |              |
|                                                                                                               |                                                      |                              |                                          |                                               |                      |                                                                                                                    |                                                         |            |              |
|                                                                                                               |                                                      |                              |                                          |                                               |                      |                                                                                                                    |                                                         |            |              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                                                                                                 |                                                                                                      |                                         |                                                                        |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------|------|
| Fashion Merchandising<br>Consumer Science and Design Technologies<br>Major S1308<br>This program is intended to prepare students for<br>employment in the fashion industry. A variety of career<br>opportunities are available in retail merchandising,<br>manufacturing, fashion, promotion, and self-<br>employment. Students intending to pursue a bachelor's<br>degree (transfer program) should consult with a<br>counselor or advisor to discuss transferability of courses. |                                  | Fire Tec<br>Major S<br>The Fire S<br>employm<br>desires to<br>the empl<br>education<br>degree (t | Fire Technology Department<br>Major S2105<br>The Fire Science major has been developed to offer pre-<br>employment education for the undergraduate who<br>desires to enter the field of fire science. It also provides<br>the employed firefighter an opportunity for a professional<br>education. Students intending to pursue a bachelor's<br>degree (transfer program) should consult with a |           | - Admi<br>Fire Tech<br>Major S2<br>The Fire Sc<br>employme<br>desires to<br>the emplo<br>education. | Fire Technology<br>- Administrative Law<br>Fire Technology Department<br>Major S2108<br>The Fire Science major has been developed to offer pre-<br>employment education for the undergraduate who<br>desires to enter the field of fire science. It also provides<br>the employed firefighter an opportunity for a professional<br>education. Students intending to pursue a bachelor's<br>degree (transfer program) should consult with a |          | BUSO 5<br>BUSO 25<br>BUSS 36<br>CISB 15<br>PLUS<br>Select six (<br>BUSA<br>BUSC<br>BUSL<br>BUSM | Business English<br>Business Communications<br>Principles of Marketing<br>Microcomputer Applications | 3.0<br>3.0 CSU<br>3.0 CSU<br>4.0 CSU,UC |                                                                        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ments for the Major              | .,                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                 |           | ements for the Major                                                                                | .,                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | or advisor to discuss transferabili                                                             |                                                                                                      | BUSS                                    |                                                                        |      |
| Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | Required  |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | ments for the Major                                                                             | ,                                                                                                    | CISB                                    |                                                                        |      |
| FASH 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Introduction to Fashion          | 3.0                                                                                              | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | FIRE 1    | Fire Protection Organization                                                                        | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    | Required |                                                                                                 |                                                                                                      |                                         | Total Units                                                            | 42.0 |
| FASH 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | History of Costume and Fashion   |                                                                                                  | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | FIRE 2    | Fire Prevention Technology                                                                          | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    | BUSA 7   | Principles of Accounting                                                                        | 5.0 CSU,UC                                                                                           | ·                                       |                                                                        |      |
| FASH 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Clothing Construction I          |                                                                                                  | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | FIRE 3    | Fire Protection Equipment                                                                           | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | - Financial                                                                                     |                                                                                                      | Graph                                   | ic Design                                                              |      |
| FASH 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fashion and Identity             |                                                                                                  | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           |           | and Systems                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                            | CISB 11  | Computer Information Systems                                                                    | s 3.5 CSU,UC                                                                                         |                                         | cial and Entertainment                                                 |      |
| FASH 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Textiles                         |                                                                                                  | ) CSU,L                                                                                                                                                                                                                                                                                                                                                                                         | C FIRE 4  | Building Construction                                                                               | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    | FIRE 1   | Fire Protection Organization                                                                    | 3.0 CSU                                                                                              |                                         | partment                                                               |      |
| FASH 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fashion Computer-Assisted        |                                                                                                  | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           |           | for Fire Protection                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                            | FIRE 2   | Fire Prevention Technology                                                                      | 3.0 CSU                                                                                              | Major SC                                |                                                                        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Drawing                          |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | FIRE 5    | Fire Behavior and Combustion                                                                        | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    | FIRE 8   | Fire Company Organization                                                                       | 3.0 CSU                                                                                              |                                         | im is designed to prepare studer                                       |      |
| FASH 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fashion Design and Product       | 3.0                                                                                              | )                                                                                                                                                                                                                                                                                                                                                                                               | FIRE 6    | Hazardous Materials/ICS                                                                             | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | and Management                                                                                  | 510 650                                                                                              |                                         | c Design field of Commercial Art                                       |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Development I                    |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | PLUS      |                                                                                                     | 510                                                                                                                                                                                                                                                                                                                                                                                                                                        | FIRE 40  | Fire Prevention 1A                                                                              | 2.0                                                                                                  |                                         | balanced blend of creative, desi<br>v skills necessary to develop succ |      |
| FASH 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Retail Store Management          | 3.0                                                                                              | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | Select tw | o (2) courses from:                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                            | FIRE 41  | Fire Prevention 1B                                                                              | 2.0                                                                                                  |                                         | print, web, and other media cha                                        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | and Merchandising                |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | EMT 90    | Emergency Medical Technician                                                                        | l 10.5                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | Total Units                                                                                     | 21.5                                                                                                 |                                         | software is industry standard a                                        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>or</u>                        |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | FIRE 7    | Fire Fighting Tactics and Strate                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | iotai onitis                                                                                    | 21.5                                                                                                 |                                         | driven by industry needs.                                              |      |
| BUSS 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Retail Store Management          | 3.0                                                                                              | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | FIRE 8    | Fire Company Organization                                                                           | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    | Conor    | al Business                                                                                     |                                                                                                      |                                         | ments for the Major                                                    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | and Merchandising                |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           | and Management                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                                                                                                 |                                                                                                      | Required                                | -                                                                      |      |
| FASH 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Advertising and Promotion        | 3.0                                                                                              | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | FIRE 9    | Fire Hydraulics                                                                                     | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    | Major S  | ing and Management Dep                                                                          | bartment                                                                                             | ARTC 100                                |                                                                        | 3.0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>or</u>                        |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | FIRE 10   | Arson and Fire Investigation                                                                        | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | am is intended to prepare studer                                                                | ats for                                                                                              | ARTC 100                                | Graphic Design II                                                      | 3.0  |
| BUSS 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Advertising and Promotion        | 3.(                                                                                              | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | FIRE 11   | Fire Apparatus and Equipment                                                                        | 3.0 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | nt following graduation. Studen                                                                 |                                                                                                      | ARTC 120                                | Typography                                                             | 3.0  |
| FASH 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Visual Merchandising Display     |                                                                                                  | ) CSU                                                                                                                                                                                                                                                                                                                                                                                           | FIRE 12   | Wildland Fire Control                                                                               | 4.5 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | degree (transfer program) shoul                                                                 |                                                                                                      | ARTC 100                                | Illustration                                                           | 3.0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Total Units                      | 30.                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                 | FIRE 86   | Basic Fire Academy                                                                                  | 14.5                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | r or advisor to discuss transferab                                                              |                                                                                                      | ARTC 105                                | Portfolio                                                              | 3.0  |
| Pacamma                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | nded Electives:                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | PE-F 53   | Physical Training                                                                                   | 2.5 CSU                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | ments for the Major                                                                             |                                                                                                      | ARTD 15A                                | Drawing: Beginning                                                     | 3.0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           | for the Basic Fire Academy                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                            | Required |                                                                                                 |                                                                                                      | ARTD 15A                                | Drawing: Life                                                          | 3.0  |
| FASH 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Field Studies                    |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           | Total Units                                                                                         | 23.5 – 43.0                                                                                                                                                                                                                                                                                                                                                                                                                                | BUSA 7   | Principles of Accounting                                                                        | 5.0 CSU,UC                                                                                           | ARTD 17A                                | Design: Two Dimensional                                                | 3.0  |
| FASH 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Field Studies - New York         |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | Decomm    | ended Electives:                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | - Financial                                                                                     | 510 250,00                                                                                           | ARTD 20<br>ARTD 25A                     |                                                                        | 3.0  |
| FASH 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Field Studies - Fashion Capitals |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                     | ·                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | or                                                                                              |                                                                                                      | PLUS                                    | Painting: Beginning                                                    | 5.0  |
| FCS 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Life Management                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | PE-F 50   | Physical Skills Preparation for <i>F</i> of Justice and Fire Technology                             | aministration                                                                                                                                                                                                                                                                                                                                                                                                                              | BUSA 72  | Bookkeeping - Accounting                                                                        | 5.0                                                                                                  |                                         | (1) course from:                                                       |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUSL 18  | Business Law                                                                                    | 3.0 CSU,UC                                                                                           | AHIS 5                                  | History of Western Art:                                                | 3.0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | PE-F 51   | <u>Oľ</u><br>Agility Tecting Dreparation for                                                        | Administration                                                                                                                                                                                                                                                                                                                                                                                                                             | DOJE 10  | <u>or</u>                                                                                       | 5.0 (50,00                                                                                           | AIII J                                  | Renaissance Through Modern                                             |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | PE-F 31   | Agility Testing Preparation for<br>of Justice and Fire Technology                                   | Administration                                                                                                                                                                                                                                                                                                                                                                                                                             | BUSL 18H | <u>or</u><br>Business Law - Honors                                                              | 3.0 CSU,UC                                                                                           | AHIS 5H                                 | History of Western Art:                                                | 3.0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUSM 10  | Principles of Continuous                                                                        | 3.0                                                                                                  |                                         | Renaissance Through Modern                                             |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | PE-F 52   | <u>or</u><br>Fitness and Conditioning for Ac                                                        | ministration of                                                                                                                                                                                                                                                                                                                                                                                                                            |          | Quality Improvement                                                                             | 2.0                                                                                                  | AHIS 6                                  | History of Modern Art                                                  | 3.0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 | FE-F 32   | Justice, Fire Technology, and Fo                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUSM 20  | Principles of Business                                                                          | 3.0 CSU,UC                                                                                           | AHIS 6H                                 | History of Modern Art - Honor                                          |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           | Justice, rife leciliology, and Fo                                                                   | nestry                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                                                                 |                                                                                                      |                                         | Total Units                                                            | 30.0 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUSM 60  | Human Relations in Business                                                                     | 3.0 CSU                                                                                              |                                         |                                                                        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUSM 61  | Business Organization                                                                           | 3.0 CSU                                                                                              |                                         |                                                                        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            | DUCLESS  | and Management                                                                                  | 2.0                                                                                                  |                                         |                                                                        |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUSM 62  | Human Resource Management                                                                       | 3.0                                                                                                  |                                         |                                                                        |      |

| Recommended Electives: |                                      |  |  |  |  |  |
|------------------------|--------------------------------------|--|--|--|--|--|
| AHIS 4                 | History of Western Art:              |  |  |  |  |  |
|                        | Prehistoric Through Gothic           |  |  |  |  |  |
| ANIM 172               | Motion Graphics with After Effects   |  |  |  |  |  |
| ANIM 175               | Web Animation with Flash             |  |  |  |  |  |
| ARTC 140               | Graphic Design III                   |  |  |  |  |  |
| ARTC 299               | Work Experience                      |  |  |  |  |  |
|                        | in Advertising Design / Illustration |  |  |  |  |  |
| ARTD 16                | Drawing: Perspective                 |  |  |  |  |  |
| ARTD 45A               | Printmaking: Silk-Screening          |  |  |  |  |  |
| ARTS 22                | Design: Three Dimensional            |  |  |  |  |  |
| PHOT 10                | Basic Digital and Film Photography   |  |  |  |  |  |
|                        |                                      |  |  |  |  |  |

### **Histologic Technician Training Biological Sciences Department** Maior 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:**

| ANAT 10B | Introductory Human Physiology     | 4.0 | CSU,UC | em  |
|----------|-----------------------------------|-----|--------|-----|
|          | <u>or</u>                         |     |        | bad |
| ANAT 36  | Human Physiology                  | 5.0 | CSU,UC | the |
| ANAT 35  | Human Anatomy                     | 5.0 | CSU,UC | dis |
| CHEM 10  | Chemistry for Allied              | 4.0 | CSU,UC | fle |
|          | Health Majors                     |     |        | spe |
|          | <u>or</u>                         |     |        | agr |
| CHEM 40  | Introduction to General Chemistry | 4.0 | CSU,   | Re  |
|          | UC                                |     |        | Rea |
|          | <u>or</u>                         |     |        | AG  |
| CHEM 50  | General Chemistry I               | 5.0 | CSU,UC |     |
|          | <u>or</u>                         |     |        | AG  |
| CHEM 50H | General Chemistry I - Honors      | 5.0 | CSU,UC |     |
| HT 1     | Introduction to Histotechnology   | 1.0 |        | AG  |
| HT 2     | Scientific Basics for             | 3.0 |        |     |
|          | Histologic Technicians            |     |        | AG  |
| HT 10    | Histology                         | 3.0 |        |     |

| HT 12   | Beginning Histotechniques  | 5.0           |        | A |
|---------|----------------------------|---------------|--------|---|
| HT 14   | Advanced Histotechniques   | 4.0           |        | A |
| HT 16   | Histochemistry/            | 4.0           |        | A |
|         | Immunohistochemistry       |               |        | A |
| HT 17   | Work Experience            | 4.0           |        | A |
|         | In Histotechnology         |               |        | A |
| MICR 1  | Principles of Microbiology | 5.0           | CSU,UC | A |
|         | <u>or</u>                  |               |        | A |
| MICR 22 | Microbiology               | 4.0           | CSU,UC |   |
|         | Total Units                | <b>41.0</b> · | 44.0   | A |
|         |                            |               |        |   |

### **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 nployment following graduation. Students desiring a achelor's degree (transfer program) should consult with e department chairperson or counselor or advisor to scuss transferability of courses. The curriculum is exible in nature to allow for previous experience and pecialization in a given area of agriculture and pricultural business. equirements for the Major equired courses: Microcomputer Applications 3.0 CSU.UC GAB 20 in Aariculture Work Experience in Agriculture 1.0 GAG 59 or Work Experience in Agriculture 2.0 GAG 60 Work Experience in Agriculture 3.0 iAG 61 or

| 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              | 3.0 | CSU    |
|         | and Disease Control            |     |        |
| AGLI 97 | Artificial Insemination        | 2.0 |        |
|         | of Livestock                   |     |        |
| PLUS    |                                |     |        |

### Select six (6) units from:

| AGHE 84A | Applied Animal Health Procedures | 1.0  |        |
|----------|----------------------------------|------|--------|
| AGOR 53  | Small Engine Repair I            | 3.0  | CSU    |
| AGOR 71  | Landscape Construction           | 3.0  | CSU    |
|          | Fundamentals                     |      |        |
| 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:

| 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 56 | Management of Hospitality          | 3.0 | CSU |
|        | Personnel and Operations           |     |     |
| 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 thre | ee (3) units from:            |          |       |
| HRM 61      | Menu Planning                 | 3.0      | CSU   |
| HRM 62      | Catering                      | 3.0      | CSU   |
| HRM 91      | Work Experience               | 3.0      | CSU   |
|             | in Restaurant/Hospitality     |          |       |
| NF 20       | Principles of Foods With Lab  | 3.0      | CSU   |
|             | Total Units                   | 28.5     |       |
| Recomme     | nded Elective:                |          |       |
| HRM 91      | Work Experience in Restaurant | t/Hospit | ality |
|             |                               |          |       |

### 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:**

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

PROGRAMS LEADING

### Integrated Pest Management Agricultural Sciences Major S0311

The Integrated Pest Management Program is part of the Agricultural Science Program and prepares students to design and implement comprehensive integrated pest management programs for private or public entities. It gualifies students to take the Pest Control Advisor (PCA) exam administered by the California Department of Pesticide Regulation. Pest Control Advisers provide written recommendations for the application of pesticides. Students learn how to design, install, and manage irrigation systems, set up and implement fertilizer and pest management programs, and properly identify and maintain trees, shrubs, and turf grasses. Students also learn personal management and budgeting skills. Most courses in the program provide hands-on experiences designed to give students a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to review lower-division requirements of the college or university they plan to attend. **Requirements for the Major Required courses:** AGOR 1 Horticulture Science 3.0 AGOR 24 Integrated Pest Management 3.0 Ornamental Plants - Herbaceous 3.0 AGOR 29 AGOR 30 **Ornamental Plants** 3.0 - Trees and Woody Shrubs AGOR 39 **Turfgrass Production** 3.0 and Management AGOR 50 Soil Science and Management 3.0 AGOR 62 Landscape Irrigation - Design 3.0 and Installation AGOR 63 Landscape Irrigation Systems 3.0 Management AGOR 91 Work Experience in Nursery 3.0 Operations PLUS Student must take at least 6 units of any of the following: BIOL 1, 2, 3, 4, 4H, 6, 6L, 8, 20, 21, 34, 50; BTNY 3; CHEM 10, 20, 40 50, 50H, 51, 60, 80, 81 PLUS Student must take 9 units from the following list: AGOR 2 **Plant Propagation** 3.0 Interior Landscaping 3.0 AGOR 15 AGOR 32 Landscaping 3.0 and Nurserv Management AGOR 40 Sports Turf Management 3.0

### **Interior Design**

### Consumer Science and Design Technologies Major S1301

The Interior Design A.S. degree provides students with an excellent foundation for a successful career in interior design. Students will obtain the skill sets necessary to obtain a variety of positions in the design field. Students desiring a bachelor's degree should consult with a counselor, advisor or faculty member in the interior design program to discuss transfer options.

# Requirements for the Major *Required courses:*

| ID 10   | Introduction to Interior Design                  | 3.0 CSU |
|---------|--------------------------------------------------|---------|
| ID 12   | Interior Materials and Products                  | 3.0 CSU |
| ID 14   | History of Furniture                             | 3.0     |
|         | and Decorative Arts                              |         |
| ID 20   | Color and Design Theory I                        | 3.0     |
| ID 21   | Color and Design Theory II                       | 3.0     |
| ID 22   | Design Drawing for Interior Design               | 3.0     |
| ID 23   | Computer Aided Drawing for<br>Interior Design    | 3.0     |
| ID 25   | Codes and Specifications<br>for Interior Design  | 3.0     |
| ID 26   | Space Planning for Interior Design               | 3.0     |
| ID 27   | Rapid Visualization                              | 3.0     |
| ID 29   | Interior Design Studio I                         | 3.0     |
| ID 31   | Building Systems                                 | 3.0     |
| 10.22   | for Interior Design                              |         |
| ID 32   | Lighting Design                                  | 3.0     |
| ID 34   | Computer Aided Drawing<br>for Interior Design II | 3.0     |
| ID 36   | Professional Practices<br>for Interior Design    | 3.0     |
|         | or                                               |         |
| ID 37   | Business Practices                               | 3.0     |
|         | for Interior Design                              |         |
| ID 38   | Internship in Interior                           | 2.0     |
|         | Design (1-3 unit course, 2 units re              | -       |
| ID 39   | Interior Design Studio II                        | 3.0     |
|         |                                                  | 50.0    |
|         | ded Electives:                                   |         |
| AGOR 13 | Interior Landscaping                             |         |
| AGOR 15 | Landscaping Design                               |         |
| ARCH 23 | Architectural Presentations                      |         |
| ARTG 20 | Exhibition Design                                |         |
| BUSA 72 | Bookkeeping - Accounting                         |         |
| ID 50   | Interior Design Specialized Studio               |         |
| ID 52   | Interior Design Laboratory Studie                | S       |

### Interior Design - Kitchen and Bath Design Consumer Science and Design Technologies

# Major S1302

The Interior Design: Kitchen and Bath Design A.S. degree provides students with specialized skills in the area of Kitchen and Bath Design and is accredited by the National Kitchen and Bath Association. Students will strengthen career perspectives and develop work to incorporate into a professional portfolio. This certificate may aid in the student's search for an intermediate position as an assistant to a kitchen and bath designer. Students completing this program and meeting the eligibility requirements will qualify to sit for the academic portion of the Certified Kitchen Designer (CKD) and Certified Bath Designer (CBD) upon graduation to earn the Associate Kitchen and Bath Designer (AKBD) designation.

# Requirements for the Major *Required courses:*

| D 10 | Introduction to Interior Design                  | 3.0   | CSU   |
|------|--------------------------------------------------|-------|-------|
| D 12 | Interior Materials and Products                  | 3.0   | CSU   |
| D 14 | History of Furniture and Decorativ               | e Art | s 3.0 |
| D 20 | Color and Design Theory I                        | 3.0   |       |
| D 21 | Color and Design Theory II                       | 3.0   |       |
| D 22 | Design Drawing for Interior Desig                | n3.0  |       |
| D 23 | Computer Aided Drawing for                       |       |       |
|      | Interior Design                                  | 3.0   |       |
| D 25 | Codes and Specifications                         | 3.0   |       |
|      | for Interior Design                              |       |       |
| D 26 | Space Planning for Interior Design               | 3.0   |       |
| D 27 | Rapid Visualization                              | 3.0   |       |
| D 29 | Interior Design Studio I                         | 3.0   |       |
| D 31 | Building Systems                                 | 3.0   |       |
|      | for Interior Design                              |       |       |
| D 32 | Lighting Design                                  | 3.0   |       |
| D 34 | Computer Aided Drawing<br>for Interior Design II | 3.0   |       |
| D 36 | Professional Practices<br>for Interior Design    | 3.0   |       |
|      | or                                               |       |       |
| D 37 | Business Practices                               | 3.0   |       |
|      | for Interior Design                              |       |       |
| D 38 | Internship in Interior Design                    | 2.0   |       |
|      | (1-3 unit course, 2 units required)              |       |       |
| D 39 | Interior Design Studio II                        | 3.0   |       |
| D 40 | Kitchen and bath Studio I                        | 3.0   |       |
| D 41 | Kitchen and bath Studio II                       | 3.0   |       |
|      |                                                  |       |       |
|      |                                                  |       |       |

| 10 10    |                                           |   |
|----------|-------------------------------------------|---|
|          | (1-3 unit course, 2 units required)       |   |
|          | Total Units 58.0                          |   |
| Recommen | ded Electives:                            |   |
| ARCH 23  | Architectural Presentations               |   |
| BUSA 72  | Bookkeeping - Accounting                  |   |
| BUSM 66  | Small Business Management                 |   |
| BUSS 50  | Retail Store Management and Merchandising | g |
| ID 50    | Interior Design Specialized Studio        |   |
| ID 52    | Interior Design Laboratory Studies        |   |
|          |                                           |   |

Internship in Kitchen and Bath 2.0

### International Business

ID 48

### 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 *Required courses:*

| negunea | , ai 5051                             |      |        |
|---------|---------------------------------------|------|--------|
| BUSL 20 | International Business Law            | 3.0  |        |
| BUSM 20 | Principles of Business                | 3.0  | CSU,UC |
| BUSM 50 | World Culture:                        | 3.0  | CSU    |
|         | A Business Perspective                |      |        |
|         | <u>or</u>                             |      |        |
| ANTH 22 | General Cultural Anthropology         | 3.0  | CSU,UC |
| BUSM 51 | Principles of International           | 3.0  | CSU    |
|         | Business                              |      |        |
| BUSM 52 | Principles of Exporting               | 3.0  | CSU    |
|         | and Importing                         |      |        |
| BUSM 61 | Business Organization                 | 3.0  | CSU    |
|         | and Management                        |      |        |
| BUSM 66 | Small Business Management             | 3.0  | CSU    |
| BUSS 36 | Principles of Marketing               | 3.0  | CSU    |
| PLUS    |                                       |      |        |
|         | (1) course from:                      |      |        |
| BUSS 70 | International Marketing Concer        |      |        |
| CHIN 1  | Beginning Chinese                     | 4.0  |        |
| FRCH 1  | Elementary French                     | 4.0  | '      |
| GERM 1  | Elementary German                     | 4.0  | CSU,UC |
| ITAL 1  | Elementary Italian                    | 4.0  | CSU,UC |
| JAPN 1  | Elementary Japanese                   | 4.0  |        |
| SPAN 1  | Elementary Spanish                    |      | CSU,UC |
|         | Total Units                           | 27.0 | - 28.0 |
|         | ded Electives:                        |      |        |
| BUSM 81 | Work Experience in Business           |      |        |
| BUSM 85 | · · · · · · · · · · · · · · · · · · · |      |        |
| BUSS 85 | Special Issues in Marketing           |      |        |
|         |                                       |      |        |

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3.0

42.0

Urban Arboriculture

Total Units

AGOR 75

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

### PLUS Colort form (A)

| Jerecciou | r (4) courses from:                                                |        |          |
|-----------|--------------------------------------------------------------------|--------|----------|
| ADJU 6    | Concepts of Enforcement Servic                                     | 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 and Corrections                                              | 3.0    | CSU      |
| 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   |          |
| Recomme   | nded Electives:                                                    |        |          |
| PE-F 50   | Physical Skills Preparation for La<br>Enforcement and Fire Science | aw     |          |
| PE-F 51   | Agility Testing Preparation for L<br>Enforcement and Fire Science  | aw     |          |
| PE-F 52   | Fitness and Conditioning for Lav                                   | w Enfo | rcement, |
|           | Fire Science and Forestry                                          |        |          |

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 coursework in nursing, science, general education and clinical nursing

practice at local hospitals and health agencies. Graduates of the program receive an Associate in Science degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

The Licensed Vocational Nurse is provided career mobility in the Nursing Program. The Licensed Vocational Nurse may choose between earning an Associate in Science degree in Nursing or completing the LVN 30-Unit Option track which leads to a certificate, not a degree. PREREQUSITE COURSES 1. Human Anatomy, including a laboratory component, a minimum of four semester units. 2. Human Physiology, including a laboratory

component, a minimum of four semester units. 3. Microbiology, including a laboratory component, a minimum of four semester units. 4. English 1A (Writing Composition) minimum of three (3) semester units with a minimum grade of C. 5. PSYC 1A Introduction to Psychology. 6. CHLD 10 Child Growth and Development or

**PSYC 14 Developmental Psychology** 

Non-course requirements: 1. An overall grade point average of 2.5 for the Human Anatomy, grade Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses. 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed. 3. Eligibility for Math 51 4. High school graduation or GED or academic degree from an accredited college/university in the United States. 5. Possess a California Licensed Vocational Nurse license. 6. A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes. 7. Current Level C-Provider CPR certification 8. Criminal background check 9. Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70, Role Transition -Due to the clinical component of NURS 70, applicants must submit their names to the Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Vocational Nurse License, physical, CPR card, Background Check (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:<br>Nutrition/Elimination/Surgical A |     | CSU |
| NURS 8 | Medical-Surgical Nursing:<br>Circulation and Oxygenation      | 5.5 | CSU |

| NURS 9                                                 | Leadership in Nursing                                 | 1.0  | CSU    |  |  |
|--------------------------------------------------------|-------------------------------------------------------|------|--------|--|--|
| NURS 10                                                | Medical-Surgical Nursing:<br>Integration/Regulation   | 4.0  | CSU    |  |  |
| NURS 11                                                | Preceptorship in Nursing                              | 2.0  | CSU    |  |  |
|                                                        | Total Units                                           | 29.0 |        |  |  |
| Requirer                                               | nents for the Major                                   |      |        |  |  |
| ANAT 35                                                | Human Anatomy                                         | 5.0  | CSU,UC |  |  |
|                                                        | and                                                   |      |        |  |  |
| ANAT 36                                                | Human Physiology                                      | 5.0  | CSU,UC |  |  |
| ANAT 10A                                               | <u>or</u><br>Introductory Human Anatomy               | 4.0  | CSU,UC |  |  |
| ANAI IUA                                               | and                                                   | 4.0  | C30,0C |  |  |
| ANAT 10B                                               | Introductory Human Physiology                         | 4.0  | CSU,UC |  |  |
| MICR 1                                                 | Principles of Microbiology                            | 5.0  | CSU,UC |  |  |
|                                                        | <u>or</u>                                             |      |        |  |  |
| MICR 22                                                | Microbiology                                          | 4.0  | CSU,UC |  |  |
| ENGL 1A                                                | Freshman Composition                                  | 4.0  | CSU,UC |  |  |
|                                                        | <u>or</u>                                             |      |        |  |  |
| ENGL 1AH                                               | Freshman Composition - Honors                         | 4.0  | CSU,UC |  |  |
| CHLD 10                                                | Child Growth and Development                          | 3.0  | CSU,UC |  |  |
|                                                        | <u>or</u>                                             |      |        |  |  |
| CHLD 10H                                               | Child Growth and Development<br>- Honors              | 3.0  | CSU,UC |  |  |
|                                                        | or                                                    |      |        |  |  |
| PSYC 14                                                | <br>Developmental Psychology                          | 3.0  | CSU,UC |  |  |
| PSYC 1A                                                | Introduction to Psychology                            | 3.0  | CSU,UC |  |  |
| SPCH 1A                                                | Public Speaking                                       | 4.0  | CSU,UC |  |  |
|                                                        | or                                                    |      |        |  |  |
| SPCH 1AH                                               | Public Speaking - Honors                              | 4.0  | CSU,UC |  |  |
|                                                        | Total Units                                           | 28.0 | - 31.0 |  |  |
| NOTE: App                                              | 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.

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:

**Procedure:** 

- 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 coursese syllabus:
  - Students completing college coursework outside of the United will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions Office).
  - Due to specific deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

APPOINTMENTS FOR ELIGIBILITY 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
- <u>Near vision</u>: 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 criterion for admission into the Licensed Vocational Nurse to RN Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

### 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.

### **Requirements for the Major**

| Required | courses: |  |
|----------|----------|--|
|          |          |  |

| AGAB 20                                                                                                             | Microcomputer Applications<br>in Agriculture                                                                                                                                                                                                                                       | 3.0                                                         | CSU,UC                                                                 | Requir                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| AGAG 1                                                                                                              | Food Production, Land Use<br>and Politics - A Global Perspective                                                                                                                                                                                                                   |                                                             | CSU,UC                                                                 | <b>Required</b><br>MFG 10                                                                                  |
| AGAG 59<br>AGAG 91<br>AGAN 1<br>AGAN 2<br>AGAN 94<br>AGLI 14<br>AGLI 16<br>AGLI 17<br>AGLI 30<br>AGLI 34<br>AGLI 96 | Work Experience in Agriculture<br>Agricultural Calculations<br>Animal Science<br>Animal Nutrition<br>Animal Breeding<br>Swine Production<br>Horse Production<br>Sheep Production<br>Beef Production<br>Livestock Judging and Selection<br>Animal Sanitation<br>and Disease Control | 1.0<br>3.0<br>3.0<br>3.0<br>3.0<br>4.0<br>3.0<br>3.0<br>3.0 | – 4.0<br>CSU,UC<br>CSU<br>CSU<br>CSU,UC<br>CSU<br>CSU<br>CSU,UC<br>CSU | MFG 11<br>MFG 12<br>MFG 15<br>MFG 17<br>MFG 19<br>MFG 38<br>MFG 38<br>MFG 38<br>MFG 39<br>MFG 39<br>MFG 85 |
| PLUS<br>Select six (                                                                                                | 6) units from:                                                                                                                                                                                                                                                                     |                                                             |                                                                        | PLUS<br>Select tv                                                                                          |
| AGOR 53                                                                                                             |                                                                                                                                                                                                                                                                                    | 3.0                                                         | CSU                                                                    | MFG 25                                                                                                     |

| AGOR 71 | Landscape Construction    | 3.0  | CSU    |
|---------|---------------------------|------|--------|
|         | Fundamentals              |      |        |
| 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    |
|         | 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.

3.0

2.0

# Requirements for the Major Required courses: MFG 10 Mathematics and Blueprint Beading for Manufacturing

|             | Reading for Manufacturing       |      |     |
|-------------|---------------------------------|------|-----|
| IFG 11      | Manufacturing Processes I       | 2.0  | CSU |
| IFG 12      | Manufacturing Processes II      | 2.0  | CSU |
| IFG 15      | AutoCAD 2D                      | 2.0  |     |
| IFG 17      | 3-D CAD - Mechanical Modeling   | 2.0  |     |
| IFG 19      | Parametric Solid Modeling       | 2.0  |     |
|             | for Manufacturing               |      |     |
| IFG 38      | MasterCAM I                     | 2.0  | CSU |
| IFG 38B     | MasterCAM II                    | 2.0  | CSU |
| IFG 39      | SurfCAM I                       | 2.0  | CSU |
| IFG 39B     | SurfCAM II                      | 2.0  | CSU |
| IFG 85      | Manual Computerized             | 2.0  | CSU |
|             | Numerical Control (CNC) Program | nmin | g   |
| LUS         |                                 |      |     |
| elect two ( | (2) course from:                |      |     |

Advanced Parametric Solid

|         | Modeling for Manufacturing |      |  |
|---------|----------------------------|------|--|
| MFG 27  | Autodesk Inventor          | 2.0  |  |
| WELD 40 | 2.0                        | CSU  |  |
|         | Total Units                | 27.0 |  |

### 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.

### Requirements for the Major

| Required c | ourses:                                              |         |        |
|------------|------------------------------------------------------|---------|--------|
| BUSA 7     | Principles of Accounting<br>- Financial              | 5.0     | CSU,UC |
|            | <u>or</u>                                            |         |        |
| BUSA 72    | Bookkeeping - Accounting                             | 5.0     |        |
| BUSM 20    | Principles of Business                               | 3.0     | CSU,UC |
| BUSM 61    | Business Organization<br>and Management              | 3.0     | CSU    |
| 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 Conce                        | pts 3.0 |        |
| BUSS 85    | Special Issues in Marketing                          | 2.0     |        |
| CISB 15    | Microcomputer Applications                           | 4.0     | CSU,UC |
| PLUS       |                                                      |         |        |
|            | (1) course from:                                     |         |        |
| BUSC 1A    | Principles of Economics<br>- Macroeconomics          | 3.0     | CSU,UC |
|            | <u>or</u>                                            |         |        |
| BUSC 1AH   | Principles of Economics<br>- Macroeconomics - Honors | 3.0     | CSU,UC |
| BUSC 1B    | Principles of Economics<br>- Microeconomics          | 3.0     | CSU,UC |
|            | <u>or</u>                                            | 2.0     |        |
| BUSC 1BH   | Principles of Economics<br>- 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     |        |
|            | Total Units                                          | 32.0    |        |
|            |                                                      |         |        |

### Mental Health Technology - Psychiatric Technician Psychiatric Technician Department

Major S1208 Completion of coursework leads to an Associate in Science degree. The Psychiatric Technology Program will prepare students to take the California State Licensure Examination for Psychiatric Technicians.

### Requirements for the Major

### **Required courses:**

| Special Information |                                                                   |         |               |  |  |
|---------------------|-------------------------------------------------------------------|---------|---------------|--|--|
|                     |                                                                   | 54.0    |               |  |  |
| PSYC 1AH            | Introduction to Psychology - Honors                               | 3.0     | CSU,UC        |  |  |
| PSYC 1A             | Introduction to Psychology or                                     | 3.0     | CSU,UC        |  |  |
|                     | in Mental Health Technology                                       | 2.0     | <u>ccu uc</u> |  |  |
| MENT 82             | Work Experience                                                   | 2.0     |               |  |  |
|                     | for Psychiatric Technicians                                       |         |               |  |  |
| MENT 73T            | Psychiatric Nursing                                               | 6.0     |               |  |  |
|                     | for Psychiatric Technicians Clinica                               |         |               |  |  |
| MENT 73L            | Psychiatric Nursing                                               | 5.5     |               |  |  |
|                     | Developmentally Disabled Person                                   | ı - Cli | nical         |  |  |
| MENT 72L            | Nursing Care of the                                               | 5.5     |               |  |  |
|                     | Developmentally Disabled Persor                                   | 1       |               |  |  |
| MENT 72             | Nursing Care of the                                               | 7.0     |               |  |  |
|                     | Technology Clinical Technicians                                   | 2.0     |               |  |  |
| MENT 70L            | Introduction to Psychiatric                                       | 2.0     |               |  |  |
|                     | Technology                                                        | 1.5     |               |  |  |
| MENT 70             | Introduction to Psychiatric                                       | 1.5 III | licdi         |  |  |
| WENT JOL            | Advanced Medical - Surgical<br>Nursing for Psychiatric Techniciar |         | vical         |  |  |
| MENT 58L            | Nursing and Pharmacology for P                                    | 1.5     |               |  |  |
| MENT 58D            | Advanced Medical - Surgical                                       | 4.0     |               |  |  |
| MENT 56L            | Clinical Experience                                               | 4.0     |               |  |  |
|                     | for Psychiatric Technicians                                       |         |               |  |  |
| MENT 56             | Medical - Surgical Nursing                                        | 9.0     |               |  |  |
|                     | and Counseling                                                    |         |               |  |  |
| MENT 40             | Introduction to Interviewing                                      | 3.0     |               |  |  |

### 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.
- g) For students who possess a college degree, the English Placement Test is not required. However, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office.

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

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

<u>EXAMPLE:</u> Mt. San Antonio College Technology and Health Division Psychiatric Technician Program 1100 North Grand Avenue Walnut, CA 91789-1399

- h) A physical examination, including specific immunizations, and consent/ disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that he/she does not have Tuberculosis. These requirements are in accordance with the healthcare agency policy that insures that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as part of this physical examination. Proof of high school graduation and malpractice insurance are required of all candidates upon acceptance.
- i) Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician.
- j) 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 125pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

### Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices)
- *Distance vision:* ability to see clearly 20 feet or more
- <u>Depth perception</u>: ability to judge distance and space relationships
- <u>Near vision:</u> 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 criterion for admission into the Mental Health Technology-Psychiatric Technician Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

### Nursing

### **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 coursework in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate in Science degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

### **Prerequisite Courses:**

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

### Non-course requirements:

PROGRAMS LEADING TO AN ASSOCIATE DEGREE

- An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of the courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for Math 51
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- Criminal background check and drug screening must be completed prior to any patient contact.
   A physical examination, including specific
- immunizations is required of all candidates prior to the beginning of nursing classes.
- 7. Current Level C-Provider CPR certification

### **Regarding Licensure:**

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

have questions regarding limitations related to licensure should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at *www.rn.ca.gov* **Requirements for Nursing** 

### Required courses:

| NURS 1AThe Nursing Process I5.0CSUNURS 1BThe Nursing Process II5.0CSUNURS 2Pharnacology2.0CSUNURS 3Medical-Surgical Nursing:<br>Locomotion/Sensation/<br>Integument/Oncology/Immunous3.0CSUNURS 4Maternity Nursing3.0CSUNURS 5Psychiatric Nursing3.0CSUNURS 6Pediatric Nursing7.5CSUNURS 7Medical-Surgical Nursing:<br>Nutrition/Elimination/Surgical Asserts7.5CSUNURS 8Medical-Surgical Nursing:<br>Integration/Regulation7.0CSUNURS 9Leadership in Nursing1.0CSUNURS 10Medical-Surgical Nursing:<br>Integration/Regulation4.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 12Human Anatomy<br>and5.0CSU,UCANAT 35Human Anatomy<br>and5.0CSU,UCANAT 36Human Anatomy<br>and5.0CSU,UCANAT 36Introductory Human Anatomy<br>Principles of Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 24Microbiology4.0CSU,UCMICR 25Microbiology4.0CSU,UCMICR 26Microbiology4.0CSU,UC <th colspan="6">Required courses:</th>                                                                                                                                                                                                                                                           | Required courses: |                                                               |            |               |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------|------------|---------------|--|--|
| NURS 2Pharmacology2.0CSUNURS 3Medical-Surgical Nursing:<br>Locomotion/Sensation/<br>Integument/Oncology/Immunous3.0CSUNURS 4Maternity Nursing3.0CSUNURS 5Psychiatric Nursing3.0CSUNURS 6Pediatric Nursing7.5CSUNURS 7Medical-Surgical Nursing:<br>Nutrition/Elimination/Surgical Assession5.5CSUNURS 8Medical-Surgical Nursing:<br>Circulation and Oxygenation1.0CSUNURS 9Leadership in Nursing<br>Integration/Regulation1.0CSUNURS 10Medical-Surgical Nursing:<br>Integration/Regulation1.0CSUNURS 11Preceptorship in Nursing<br>Integration/Regulation2.0CSUNURS 13Human Anatomy<br>Integration/Regulation5.0CSU,UCANAT 35Human Anatomy<br>Introductory Human Anatomy<br>Introductory Human Anatomy<br>Introductory Human Anatomy<br>Introductory Human Physiology5.0CSU,UCMICR 22Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology3.0CSU,UCMICR 24Microbiology3.0CSU,UCMICR 25Microbiology3.0CSU,UC <td< td=""><td>NURS 1A</td><td>The Nursing Process I</td><td>5.0</td><td>CSU</td></td<>                                                                                                                                 | NURS 1A           | The Nursing Process I                                         | 5.0        | CSU           |  |  |
| NURS 3Medical-Surgical Nursing:<br>Locomotion/Sensation/<br>Integument/Oncology/Immunology3.0CSUNURS 4Maternity Nursing3.0CSUNURS 5Psychiatric Nursing3.0CSUNURS 6Pediatric Nursing3.0CSUNURS 7Medical-Surgical Nursing:<br>Nutrition/Elimination/Surgical Aspension7.5CSUNURS 8Medical-Surgical Nursing:<br>Circulation and Oxygenation5.5CSUNURS 9Leadership in Nursing<br>Integration/Regulation1.0CSUNURS 10Medical-Surgical Nursing:<br>Integration/Regulation4.0CSUNURS 11Preceptorship in Nursing<br>Integration/Regulation2.0CSUNURS 12Human Anatomy<br>Integration/Regulation5.0CSU,UCANAT 35Human Anatomy<br>Introductory Human Anatomy<br>Introductory Human Anatomy<br>Introductory Human Physiology5.0CSU,UCANAT 10AIntroductory Human Physiology<br>Principles of Microbiology5.0CSU,UCMICR 22Microbiology<br>Principles of Microbiology<br>Integration4.0CSU,UCMICR 22Microbiology<br>Principles of Microbiology4.0CSU,UCMICR 22Microbiology<br>Principles of Microbiology3.0CSU,UCMICR 22Microbiology<br>Principles of Microbiology<br>Integration3.0CSU,UCMICR 22Microbiology<br>Principles of Microbiology<br>Principles of Microbiology3.0CSU,UCMICR 22Microbiology<br>Principles of Microbiology<br>Principles of Microbiology3.0CSU,UC                                   | NURS 1B           | The Nursing Process II                                        | 5.0        | CSU           |  |  |
| Locomotion/Sensation/<br>Integument/Oncology/ImmunolyNURS 4Maternity Nursing3.0CSUNURS 5Psychiatric Nursing3.0CSUNURS 6Pediatric Nursing3.0CSUNURS 6Pediatric Nursing3.0CSUNURS 7Medical-Surgical Nursing:7.5CSUNURS 8Medical-Surgical Nursing:5.5CSUNURS 9Leadership in Nursing1.0CSUNURS 10Medical-Surgical Nursing:4.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing5.0CSU,ANAT 35Human Anatomy5.0CSU,UC <i>and</i> Aunar5.0CSU,UC <i>ANAT</i> 36Human Physiology5.0CSU,UC <i>MICR</i> 10Introductory Human Anatomy4.0CSU,UC <i>MICR</i> 22Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCCHLD 10HÁreshman Composition - Honors4.0CSU,UCCHLD 10H <i>Or</i> Aunors3.0CSU,UC <i>PSYC</i> 14Developmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                   | NURS 2            |                                                               | 2.0        | CSU           |  |  |
| Integument/Oncology/ImmunolsyNURS 4Maternity Nursing3.0CSUNURS 5Psychiatric Nursing3.0CSUNURS 6Pediatric Nursing3.0CSUNURS 7Medical-Surgical Nursing:7.5CSUNURS 8Medical-Surgical Nursing:5.5CSUNURS 8Medical-Surgical Nursing:1.0CSUNURS 9Leadership in Nursing1.0CSUNURS 10Medical-Surgical Nursing:4.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing5.0CSU,UCAnAT 35Human Anatomy5.0CSU,UCAnAT 36Human Physiology5.0CSU,UCAnAT 36Human Physiology5.0CSU,UCMICR 10Introductory Human Anatomy4.0CSU,UCMICR 22Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                 | NURS 3            |                                                               | 3.5        | CSU           |  |  |
| NURS 4Maternity Nursing3.0CSUNURS 5Psychiatric Nursing3.0CSUNURS 6Pediatric Nursing7.5CSUNURS 7Medical-Surgical Nursing:7.5CSUNURS 7Medical-Surgical Nursing:5.5CSUNURS 8Medical-Surgical Nursing:5.5CSUNURS 9Leadership in Nursing1.0CSUNURS 10Medical-Surgical Nursing:4.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 12Human Anatomy5.0CSU,UCANAT 36Human Anatomy5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 10AIntroductory Human Anatomy4.0CSU,UCMICR 12Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCSPCH 1AHPuelospeaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                               |            |               |  |  |
| NURS 5Psychiatric Nursing3.0CSUNURS 6Pediatric Nursing7.5CSUNURS 7Medical-Surgical Nursing:<br>Nurtrition/Elimination/Surgical Assession7.5CSUNURS 8Medical-Surgical Nursing:<br>Circulation and Oxygenation5.5CSUNURS 9Leadership in Nursing1.0CSUNURS 10Medical-Surgical Nursing:<br>Integration/Regulation4.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing5.0CSU,ANAT 35Human Anatomy5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 10AIntroductory Human Anatomy<br>Principles of Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCCHLD 10HChild Growth and Development<br>-Honors3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                               |            |               |  |  |
| NURS 6Pediatric Nursing3.0CSUNURS 7Medical-Surgical Nursing:<br>Nurtition/Elimination/Surgical Aussing:<br>Circulation and Oxygenation5.5CSUNURS 8Medical-Surgical Nursing:<br>Circulation and Oxygenation1.0CSUNURS 9Leadership in Nursing1.0CSUNURS 10Medical-Surgical Nursing:<br>Integration/Regulation4.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing5.0CSU,ANAT 35Human Anatomy5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 36Introductory Human Anatomy4.0CSU,UCANAT 10AIntroductory Human Anatomy4.0CSU,UCMICR 22Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCSYC1 1ADevelopmental Psychology3.0CSU,UCSYC1 1APublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                             | NURS 4            |                                                               |            |               |  |  |
| NURS 7Medical-Surgical Nursing:<br>Nutrition/Elimination/Surgical Aussing:<br>Circulation and Oxygenation7.5CSU<br>NURS 8NURS 8Medical-Surgical Nursing:<br>(circulation and Oxygenation)5.0CSUNURS 9Leadership in Nursing<br>Integration/Regulation1.0CSUNURS 10Medical-Surgical Nursing:<br>(netgration/Regulation)4.0CSUNURS 11Preceptorship in Nursing<br>Total Units2.0CSUANAT 35Human Anatomy<br>Introductory Human Anatomy<br>Principles of Microbiology5.0CSU,UCANAT 10AIntroductory Human Anatomy<br>Principles of Microbiology5.0CSU,UCMICR 22Microbiology<br>Principles of Microbiology4.0CSU,UCMICR 24Freshman Composition - Honors<br>Principles of Microbiology3.0CSU,UCMICR 25Microbiology<br>Principles of Microbiology3.0CSU,UCMICR 26Microbiology<br>Principles of Microbiology3.0CSU,UCMICR 27Microbiology<br>Principles of Microbiology3.0CSU,UCMICR 28Microbiology<br>Principles of Microbiology3.0CSU,UCMICR 29Microbiology<br>Principles of Microbiology3.0CSU,UCMICR 29 <td< td=""><td></td><td></td><td></td><td></td></td<> |                   |                                                               |            |               |  |  |
| Nutrition/Elimination/Surgical AsepsisNURS 8Medical-Surgical Nursing:<br>(irculation and 0xygenation)5.5CSU<br>(SU)NURS 9Leadership in Nursing1.0CSU<br>(SU)NURS 10Medical-Surgical Nursing:<br>(Integration/Regulation)4.0CSUNURS 11Preceptorship in Nursing2.0CSUNURS 11Preceptorship in Nursing4.0CSUNURS 11Preceptorship in Nursing5.0CSU,ANAT 35Human Anatomy5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 10AIntroductory Human Anatomy4.0CSU,UCANAT 10AIntroductory Human Physiology5.0CSU,UCMICR 22Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCENGL 1AHFreshman Composition - Honors4.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                               |            |               |  |  |
| Circulation and OxygenationNURS 9Leadership in Nursing1.0CSUNURS 10Medical-Surgical Nursing:<br>Integration/Regulation4.0CSUNURS 11Preceptorship in Nursing2.0CSUTotal Units44.5Require                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NURS 7            | Medical-Surgical Nursing:<br>Nutrition/Elimination/Surgical A |            |               |  |  |
| NURS 9Leadership in Nursing<br>Integration/Regulation1.0CSUNURS 10Medical-Surgical Nursing:<br>Integration/Regulation4.0CSUNURS 11Preceptorship in Nursing<br>Total Units2.0CSURequire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NURS 8            | Medical-Surgical Nursing:                                     | 5.5        | CSU           |  |  |
| NURS 10Medical-Surgical Nursing:<br>Integration/Regulation4.0CSUNURS 11Preceptorship in Nursing2.0CSUTotal Units44.5Require=rnts for the MajorANAT 35Human Anatomy5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 36Introductory Human Anatomy4.0CSU,UCANAT 108Introductory Human Physiology4.0CSU,UCANAT 108Introductory Human Physiology5.0CSU,UCMICR 2Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCENGL 1AAFreshman Composition - Honors4.0CSU,UCCHLD 101Child Growth and Development3.0CSU,UCCHLD 104Or<br>Child Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   | Circulation and Oxygenation                                   |            |               |  |  |
| Integration/Regulation2.0CSUNURS 11Preceptorship in Nursing<br>Total Units2.0CSURequire-ents for the MajorANAT 35Human Anatomy<br>and5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 36Introductory Human Anatomy<br>and4.0CSU,UCANAT 108Introductory Human Physiology<br>principles of Microbiology4.0CSU,UCMICR 22Microbiology<br>Freshman Composition - Honors<br>CHLD 104.0CSU,UCMICR 22Microbiology<br>Freshman Composition - Honors<br>Child Growth and Development<br>- Honors3.0CSU,UCMICR 21 <i>Or</i><br>Freshman Composition - Honors<br>- Honors3.0CSU,UCCHLD 10H <i>Or</i><br>Child Growth and Development<br>- Honors3.0CSU,UCPSYC 14Developmental Psychology<br>- Holic Speaking3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NURS 9            | Leadership in Nursing                                         | 1.0        | CSU           |  |  |
| NURS 11Preceptorship in Nursing<br>Total Units2.0CSURequireFor the Major44.5RequireFor the Major5.0CSU,UCANAT 35Human Anatomy5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 36Introductory Human Anatomy4.0CSU,UCANAT 108Introductory Human Physiology4.0CSU,UCANAT 108Introductory Human Physiology5.0CSU,UCMICR 1Principles of Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCENGL 1AAFreshman Composition - Honors4.0CSU,UCCHLD 101Child Growth and Development3.0CSU,UCCHLD 104Or<br>Child Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NURS 10           |                                                               | 4.0        | CSU           |  |  |
| Total Units44.5Require                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NURS 11           |                                                               | 2.0        | CSU           |  |  |
| Require-static for the MajorANAT 35Human Anatomy5.0CSU,UCANAT 36And<br>Human Physiology5.0CSU,UCANAT 104And<br>Introductory Human Anatomy4.0CSU,UCANAT 108Introductory Human Physiology<br>Principles of Microbiology4.0CSU,UCMICR 22Microbiology<br>Freshman Composition - Honors4.0CSU,UCKNGL 1AHFreshman Composition - Honors4.0CSU,UCCHLD 104And<br>Freshman Composition - Honors3.0CSU,UCCHLD 105And<br>Freshman Composition - Honors3.0CSU,UCCHLD 105And<br>Freshman Composition - Honors3.0CSU,UCCHLD 106And<br>Freshman Composition - Honors3.0CSU,UCCHLD 106And<br>Freshman Composition - Honors3.0CSU,UCAnd<br>Freshman Composition - HonorsAnd<br>Freshman Composition - Honors3.0CSU,UCFreshman Composition - HonorsAnd<br>Freshman Composition - Honors<                                                                                                                                      | NON5 IT           |                                                               |            | 00            |  |  |
| ANAT 35Human Anatomy5.0CSU,UCandHuman Physiology5.0CSU,UCANAT 36Human Physiology5.0CSU,UCANAT 10AIntroductory Human Anatomy4.0CSU,UCandAnAT 10BIntroductory Human Physiology4.0CSU,UCANAT 10BIntroductory Human Physiology5.0CSU,UCMICR 1OrSUCSU,UCMICR 22Microbiology4.0CSU,UCENGL 1AFreshman Composition4.0CSU,UCCHLD 10HOrChild Growth and Development3.0CSU,UCCHLD 10HOrOrSUCSU,UCPSYC 1ADevelopmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Deminen           |                                                               |            |               |  |  |
| ANAT 36And<br>Human Physiology5.0CSU,UCANAT 10AOr<br>Introductory Human Anatomy<br>AnAT 10B4.0CSU,UC<br>CSU,UCANAT 10BIntroductory Human Physiology<br>Principles of Microbiology4.0CSU,UC<br>CSU,UCMICR 20Microbiology4.0CSU,UC<br>CSU,UCMICR 22Microbiology4.0CSU,UC<br>CSU,UCFreshman Composition4.0CSU,UC<br>CSU,UCCHLD 10HFreshman Composition - Honors<br>Child Growth and Development<br>Phonors3.0CSU,UC<br>CSU,UCCHLD 10HOr<br>Phild Growth and Development<br>Phonors3.0CSU,UC<br>CSU,UCPSYC 1A<br>SPCH 1AHDevelopmental Psychology<br>Public Speaking - Honors3.0CSU,UC<br>CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -                 |                                                               | F 0        | <u>ccu uc</u> |  |  |
| ANAT 36Human Physiology5.0CSU,UCANAT 10AIntroductory Human Anatomy<br>Introductory Human Physiology4.0CSU,UCANAT 10BIntroductory Human Physiology4.0CSU,UCMICR 1Principles of Microbiology5.0CSU,UCMICR 22Microbiology4.0CSU,UCENGL 1AFreshman Composition4.0CSU,UCCHLD 10Or<br>Child Growth and Development<br>- Honors3.0CSU,UCOYOY3.0CSU,UCPSYC 1ADevelopmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ANAI 35           |                                                               | 5.0        | CSU,UC        |  |  |
| ANAT 10A $\frac{Or}{Introductory Human Anatomy}and4.0CSU,UCCSU,UCANAT 10BIntroductory Human PhysiologyPrinciples of Microbiology4.0CSU,UCMICR 1Principles of MicrobiologyPrinciples of Microbiology5.0CSU,UCMICR 22MicrobiologyFreshman Composition4.0CSU,UCENGL 1AHFreshman Composition - HonorsChild Growth and Development4.0CSU,UCCHLD 10H\frac{Or}{Child Growth and Development}- Honors3.0CSU,UCPSYC 1ADevelopmental PsychologyHutroduction to PsychologySPCH 1AH3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                                               | г <b>о</b> | COLUC         |  |  |
| ANAT 10AIntroductory Human Anatomy4.0CSU,UCandandANAT 10BIntroductory Human Physiology4.0CSU,UCMICR 1Principles of Microbiology5.0CSU,UCOrMICR 22Microbiology4.0CSU,UCENGL 1AFreshman Composition4.0CSU,UCCHLD 10Child Growth and Development3.0CSU,UCCHLD 10HOrPSYC 1ADevelopmental Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AIVAI 30          |                                                               | 5.0        | C30,0C        |  |  |
| and<br>Introductory Human Physiology4.0CSU,UC<br>CSU,UCMICR 10Or<br>Principles of Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCFMICR 24Freshman Composition4.0CSU,UCENGL 1AHFreshman Composition - Honors4.0CSU,UCCHLD 10HOr<br>Child Growth and Development3.0CSU,UCCHLD 10HOr<br>Child Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCSPCH 1AHOr<br>Public Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A N AT 10 A       | _                                                             | 4.0        | COLUC         |  |  |
| MICR 1Principles of Microbiology5.0CSU,UC<br>OF<br>Microbiology4.0CSU,UCMICR 22Microbiology4.0CSU,UCENGL 1AFreshman Composition - Honors4.0CSU,UCCHLD 10Child Growth and Development3.0CSU,UCCHLD 10HChild Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCSPCH 1APublic Speaking - Honors4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANAI IUA          |                                                               | 4.0        | CSU,UC        |  |  |
| OrCSU,UCMICR 22Microbiology4.0CSU,UCENGL 1AFreshman Composition4.0CSU,UCOrFreshman Composition - Honors3.0CSU,UCCHLD 10Child Growth and Development3.0CSU,UCCHLD 10HOrChild Growth and Development3.0CSU,UCCHLD 10HOrChild Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCPSYC 14Public Speaking4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ANAT 10B          |                                                               | 4.0        | CSU,UC        |  |  |
| MICR 22Microbiology4.0CSU,UCENGL 1AFreshman Composition4.0CSU,UCENGL 1AHFreshman Composition - Honors4.0CSU,UCCHLD 10Child Growth and Development3.0CSU,UCCHLD 10HOr<br>Child Growth and Development3.0CSU,UCCHLD 10HOr<br>Child Growth and Development3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCPSYC 1AIntroduction to Psychology3.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MICR 1            | Principles of Microbiology                                    | 5.0        | CSU,UC        |  |  |
| ENGL 1AFreshman Composition4.0CSU,UCOrFreshman Composition - Honors4.0CSU,UCCHLD 10Child Growth and Development3.0CSU,UCCHLD 10HOrSUSUSUCHLD 10HOrSUSUSUPSYC 14Developmental Psychology3.0CSU,UCPSYC 14Introduction to Psychology3.0CSU,UCSPCH 1AOrSUSUSUSPCH 1AHPublic Speaking - Honors4.0SU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | <u>or</u>                                                     |            |               |  |  |
| Or<br>Freshman Composition - Honors4.0CSU,UC<br>CSU,UCCHLD 101Or<br>Child Growth and Development3.0CSU,UCCHLD 10HOr<br>Child Growth and Development3.0CSU,UCOr<br>- HonorsOr<br>- Honors3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCPSYC 14Introduction to Psychology3.0CSU,UCPUBLic Speaking4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   | Microbiology                                                  | 4.0        | CSU,UC        |  |  |
| ENGL 1AH<br>CHLD 10Freshman Composition - Honors<br>Child Growth and Development4.0CSU,UCCHLD 10HOr<br>Child Growth and Development<br>Child Growth and Development3.0CSU,UCCHLD 10HOr<br>Child Growth and Development<br>Porelopmental Psychology3.0CSU,UCPSYC 14Developmental Psychology3.0CSU,UCPSYC 1AIntroduction to Psychology3.0CSU,UCSPCH 1APublic Speaking4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ENGL 1A           | Freshman Composition                                          | 4.0        | CSU,UC        |  |  |
| CHLD 10Child Growth and Development3.0CSU,UCOr<br>CHLD 10HOr<br>Child Growth and Development3.0CSU,UCOr<br>PSYC 14Developmental Psychology3.0CSU,UCPSYC 14Introduction to Psychology3.0CSU,UCSPCH 1APublic Speaking4.0CSU,UCOr<br>SPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | <u>or</u>                                                     |            |               |  |  |
| Off<br>CHLD 10HOff<br>Child Growth and Development3.0CSU,UCOr<br>PSYC 14Oevelopmental Psychology3.0CSU,UCPSYC 14Introduction to Psychology3.0CSU,UCPSYC 1APublic Speaking4.0CSU,UCSPCH 1AHPublic Speaking - Honors4.0CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ENGL 1AH          |                                                               | 4.0        | CSU,UC        |  |  |
| CHLD 10HThild Growth and Development<br>- Honors3.0CSU,UCOrOrSOURCESOURCEPSYC 14Developmental Psychology3.0CSU,UCPSYC 1AIntroduction to Psychology3.0CSU,UCSPCH 1APublic Speaking4.0CSU,UCOrOrSPCH 1AHPublic Speaking - Honors4.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CHLD 10           | Child Growth and Development                                  | 3.0        | CSU,UC        |  |  |
| - Honors<br><u>or</u><br>PSYC 14 Developmental Psychology 3.0 CSU,UC<br>PSYC 1A Introduction to Psychology 3.0 CSU,UC<br>SPCH 1A Public Speaking 4.0 CSU,UC<br><u>or</u><br>SPCH 1AH Public Speaking - Honors 4.0 CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   | <u>or</u>                                                     |            |               |  |  |
| Or     3.0     CSU,UC       PSYC 14     Developmental Psychology     3.0     CSU,UC       PSYC 1A     Introduction to Psychology     3.0     CSU,UC       SPCH 1A     Public Speaking     4.0     CSU,UC       Or     Or     SPCH 1AH     Public Speaking - Honors     4.0     CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CHLD 10H          | Child Growth and Development                                  | 3.0        | CSU,UC        |  |  |
| PSYC 14     Developmental Psychology     3.0     CSU,UC       PSYC 1A     Introduction to Psychology     3.0     CSU,UC       SPCH 1A     Public Speaking     4.0     CSU,UC       Or     SPCH 1AH     Public Speaking - Honors     4.0     CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | - Honors                                                      |            |               |  |  |
| PSYC 1A     Introduction to Psychology     3.0     CSU,UC       SPCH 1A     Public Speaking     4.0     CSU,UC       Or     0     0     0       SPCH 1AH     Public Speaking - Honors     4.0     CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   | <u>or</u>                                                     |            |               |  |  |
| SPCH 1A     Public Speaking     4.0     CSU,UC       or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PSYC 14           |                                                               | 3.0        | '             |  |  |
| SPCH 1AH Public Speaking - Honors 4.0 CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PSYC 1A           |                                                               | 3.0        | -             |  |  |
| SPCH 1AH Public Speaking - Honors 4.0 CSU,UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPCH 1A           | Public Speaking                                               | 4.0        | CSU,UC        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                               |            |               |  |  |
| Total Units 28.0 - 31.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SPCH 1AH          |                                                               |            | '             |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | Total Units                                                   | 28.0       | - 31.0        |  |  |

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

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

### Requirements for the Associate degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the A.S. degree. Contact Counseling and Advising Services to schedule an appointment.

### Application Process:

Due to the high demand of nursing applications, Mt. San Antonio College Associate Degree Nursing Program will be temporarily suspending applications for the Fall 2011 and Spring 2012 semesters. We will be revising the application process on an as-needed basis. Please check the Nursing Web site (*http://www.mtsac.edu/instruction/techhealth/nursing*) frequently for updates and information. 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, 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
- space relationships

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

### Working Environment:

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

### English Language Skills:

Although proficiency in English is not a criterion for admission into the Nursing Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

### 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:

| Required co | urses:                                |       |        |
|-------------|---------------------------------------|-------|--------|
| AGAG 1      | Food Production, Land Use             | 3.0   | CSU,UC |
|             | and Politics - A Global Perspective   | Ś     |        |
| 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     | <b>Ornamental Plants - Herbaceous</b> | 3.0   | CSU,UC |
| AGOR 30     | Ornamental Plants                     | 3.0   | CSU,UC |
|             | - Trees and Woody Shrubs              |       |        |
| AGOR 32     | Landscaping                           | 3.0   | CSU    |
|             | and Nursery Management                |       |        |
| AGOR 39     | Turf Grass Production                 | 3.0   | CSU    |
|             | and Management                        |       |        |
| AGOR 50     | Soil Science and Management           | 3.0   | CSU,UC |
| AGOR 62     | Landscape Irrigation                  | 3.0   | CSU    |
|             | - Design and Installation             |       |        |
| AGOR 71     | Landscape Construction                | 3.0   | CSU    |
|             | Fundamentals                          |       |        |
| AGOR 91     | Work Experience                       | 1.0 - | - 4.0  |
|             | in Nursery Operations                 |       |        |
| PLUS        |                                       |       |        |
| • •         | ) 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                 | 3.0   | CSU    |
|             | Equipment Operations                  |       |        |
| AGOR 53     | Small Engine Repair I                 | 3.0   | CSU    |
| AGOR 63     | Landscape Irrigation                  | 3.0   |        |
|             | Systems Management                    |       |        |
| AGOR 72     | Landscape Hardscape Applications      |       | CSU    |
| AGOR 75     | Urban Arboriculture                   | 3.0   |        |
| CISB 15     | Microcomputer Applications            | 4.0   |        |
|             | Total Units 4                         | 13.0  | 46.0   |
|             |                                       |       |        |
|             |                                       |       |        |
|             |                                       |       |        |
|             |                                       |       |        |
|             |                                       |       |        |
|             |                                       |       |        |
|             |                                       |       |        |

### Paralegal/Legal Assistant **Business Administration**

### Major S0310

The paralegal program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are gualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers. The California Business & Professions Code, §6450 et seq, governs paralegals in California. **Requirements for the Major Required courses:** PLGL 30 Introduction to Paralegal 3.0 CSU PLGL 31A Legal Analysis and Writing 3.0 PLGL 31B Advanced Legal Analysis 3.0 CSU and Writing PLGL 33A Civil Procedure - Pre-Trail 3.0 CSU PLGL 33B Civil Procedure - Trial 3.0 CSU and Post-Trail PLGL 35A Law Office Procedures 3.0 CSU PLGL 35B Automated Law Office Procedures 3.0 CSU PLGL 37 3.0 CSU Tort Law PLGL 38 Employment and Ethical Issues 2.0 CSU in Paralegalism PLGL 39 Contract Law 3.0 CSU PLUS Choose two courses from: PLGL 40 Landlord-Tenant Law 3.0 CSU PLGL 41 3.0 CSU Property Law PLGL 42 Family Law 3.0 CSU PLGL 43 Wills and Trusts 3.0 CSU PLGL 44 Bankruptcy Law 3.0 CSU PLGL 45 Creditor's Rights 3.0 CSU 3.0 CSU PLGL 48 Criminal Law and Procedures PLGL 49 Evidence Law 3.0 CSU PLGL 50 **Comparative Law** 3.0 BUSL 18 **Business Law** 3.0 CSU,UC <u>or</u> 3.0 CSU, UC BUSL 18H Business Law - Honors 3.0 CSU, UC BUSL 19 Advanced Business Law BUSL 20 International Business Law 3.0

**Total Units** 

### 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

Park Facilities

Park Management

Landscape Design

**Ornamental Plants** 

**Turf Grass Production** 

and Management

Integrated Pest Management

- Trees and Woody Shrubs

Sports Turf Management

Tractor and Landscape

**Equipment Operations** Landscape Irrigation

- Design and Installation

Landscape Irrigation

Fundamentals

Landscaping Laws,

Urban Arboriculture

in Nursery Operations

Work Experience

**Total Units** 

Systems Management

Landscape Construction

Contracting and Estimating

Soil Science and Management

Ornamental Plants - Herbaceous 3.0 CSU,UC

3.0

3.0

3.0 CSU

3.0 CSU

46.0 - 49.0

Required courses:

AGOR 4

AGOR 5

AGOR 13

AGOR 24

AGOR 29

AGOR 30

AGOR 39

AGOR 40

AGOR 50

AGOR 51

AGOR 62

AGOR 63

AGOR 71

AGOR 73

AGOR 75

AGOR 91

35.0

### 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:

| 3.0 | CSU,UC       | AGAB 20 | Microcomputer Applications        | 3.0    | CSU,UC |
|-----|--------------|---------|-----------------------------------|--------|--------|
| 2.0 | <b>CC</b> 11 |         | in Agriculture                    |        |        |
| 3.0 | CSU          | AGAN 1  | Animal Science                    | 3.0    | CSU,UC |
|     |              | AGAN 2  | Animal Nutrition                  | 3.0    | CSU    |
|     | CSU          | AGAN 51 | Animal Handling and Restraint     | 3.0    | CSU    |
| 3.0 |              | AGAN 94 | Animal Breeding                   | 3.0    |        |
| 3.0 | CSU          | AGLI 96 | Animal Sanitation                 | 3.0    | CSU    |
|     |              |         | and Disease Control               |        |        |
| 3.0 | CSU          | AGPE 70 | Pet Shop Management               | 3.0    |        |
| ~ ~ |              | AGPE 71 | Canine Management                 | 3.0    |        |
| 3.0 |              | AGPE 72 | Feline Management                 | 3.0    |        |
| 2.0 | <i>cc</i> 11 | AGPE 73 | Tropical and Coldwater            | 2.0    |        |
| 3.0 | CSU          |         | Fish Management                   |        |        |
| 2.0 |              | AGPE 74 | Reptile Management                | 2.0    |        |
| 3.0 |              | AGPE 76 | Aviculture - Cage and Aviary Birc | ls 3.0 |        |
| 3.0 |              |         | Total Units                       | 34.0   |        |
|     | - 4.0        |         |                                   |        |        |
| 1.0 | 0            |         |                                   |        |        |

| Major S1<br>This progra<br>employmen<br>career oppo<br>cinema, co<br>journalism.<br>consult wit | cial and Entertainment A                                       | tudent for<br>A variety of<br>ography, art,<br>yraphics, and<br>degree should<br>nstitution they | Physical<br>Major SC<br>This progra<br>employme<br>wishing a<br>consult wir<br>plan and t | am is designed to prepare stu<br>nt in the field of Physical Edu<br>bachelor's degree (transfer pi<br>th a counselor or advisor to f<br>o discuss transferability.<br>ments for the Major | udents for<br>ucation. Students<br>rogram) should | tion and clinical nursing practice at local hospitals and<br>agencies. Graduates of the program receive an Associate NURS 4                                            | Il prerequisite courses prior<br>et provide proof of current<br>ical, CPR card, Background<br>tart of class.)<br>g<br>ng: Locomotion3.5 CSU<br>nt/Oncology/Immunology<br>3.0 CSU |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                 | ments for the Major                                            |                                                                                                  | ANAT 35                                                                                   | Human Anatomy                                                                                                                                                                             | 5.0 CSU,UC                                        | nce degree in Nursing and are eligible to take the NCLEX- NURS 6 Pediatric Nursing<br>amination leading to licensure as a Registered Nurse. NURS 7 Medical-Surgical Nu | 3.0 CSU<br>rsing: 7.0 CSU                                                                                                                                                        |
| <b>Required c</b><br>GRAP 10                                                                    | <i>ourses:</i><br>Photoshop Imagery                            | 3.0                                                                                              | ANAT 36                                                                                   | Human Physiology                                                                                                                                                                          | 5.0 CSU,UC                                        | sychiatric Technician is provided career mobility into                                                                                                                 | n/Surgical Asepsis                                                                                                                                                               |
| PHOT 10                                                                                         | Basic Digital                                                  | 3.0<br>3.0 CSU,UC                                                                                | NF 10                                                                                     | Nutrition for Personal Healt<br>and Wellness                                                                                                                                              | h 3.0 CSU                                         | ursing Program to earn an Associate degree in Nursing. NURS 8 Medical-Surgical Nu                                                                                      |                                                                                                                                                                                  |
|                                                                                                 | and Film Photography                                           | 510 150,01                                                                                       |                                                                                           | or                                                                                                                                                                                        |                                                   | Circulation and Oxyc                                                                                                                                                   |                                                                                                                                                                                  |
| PHOT 11                                                                                         | Advanced Professional                                          | 4.0                                                                                              | NF 25                                                                                     | Essentials of Nutrition                                                                                                                                                                   | 3.0 CSU,UC                                        | NUKS 9 Leadership II Nursh                                                                                                                                             |                                                                                                                                                                                  |
|                                                                                                 | Photography                                                    |                                                                                                  |                                                                                           | or                                                                                                                                                                                        | ,                                                 | a minimum of four semester units. NURS 10 Medical-Surgical Nu                                                                                                          | rsing: 4.0 CSU<br>on                                                                                                                                                             |
| PHOT 12                                                                                         | Photographic Alternatives                                      | 3.0 CSU,UC                                                                                       | NF 25H                                                                                    | Essentials of Nutrition - Hor                                                                                                                                                             | nors 3.0 CSU,UC                                   | Human Physiology, including a laboratory NURS 11 Preceptorship in Nur                                                                                                  |                                                                                                                                                                                  |
| PHOT 14                                                                                         | Commercial Lighting                                            | 3.0                                                                                              | PE 3                                                                                      | First Aid and CPR                                                                                                                                                                         | 3.0 CSU,UC                                        | component, a minimum of four semester units. Total Units                                                                                                               | 28.5                                                                                                                                                                             |
| PHOT 15                                                                                         | History of Photography                                         | 3.0 CSU,UC                                                                                       |                                                                                           | <u>or</u>                                                                                                                                                                                 |                                                   | Microbiology, including a laboratory component, a Requirements for the Ma                                                                                              | ijor                                                                                                                                                                             |
| PHOT 16                                                                                         | Fashion Photography                                            | 3.0                                                                                              | PE 5                                                                                      | Advanced First Aid/                                                                                                                                                                       | 3.0 CSU                                           | minimum of four semester units.<br>ANAT 35 Human Anatomy                                                                                                               | 5.0 CSU,UC                                                                                                                                                                       |
| PHOT 18                                                                                         | <u>or</u><br>Portraiture                                       | 3.0                                                                                              | 05.47                                                                                     | CPR/Emergency Response                                                                                                                                                                    |                                                   | English 1A (Writing Composition) minimum of three semester units with units with a minimum grade of C.                                                                 |                                                                                                                                                                                  |
| FIIUT TO                                                                                        | and Wedding Photography                                        | 5.0                                                                                              | PE 17                                                                                     | Introduction to Physical Education                                                                                                                                                        |                                                   | PSYC 1A Introduction to Psychology                                                                                                                                     | 5.0 CSU,UC                                                                                                                                                                       |
| PHOT 17                                                                                         | Photocommunication                                             | 3.0                                                                                              | PE 19                                                                                     | Introduction to Care/Preven<br>of Activity/Sports - Related                                                                                                                               | ,                                                 | CIII D 10 Child Crowth and Development or                                                                                                                              |                                                                                                                                                                                  |
| PHOT 20                                                                                         | Color Photography                                              | 3.0                                                                                              | PE 34                                                                                     | Fitness for Living                                                                                                                                                                        | 3.0 CSU,UC                                        | PSYC 14 Developmental Psychology                                                                                                                                       | Anatomy 4.0 CSU,UC                                                                                                                                                               |
| PHOT 21                                                                                         | Exploring Color Photography                                    | 3.0                                                                                              | PLUS                                                                                      | Thirds for Living                                                                                                                                                                         | 5.0 650,00                                        |                                                                                                                                                                        |                                                                                                                                                                                  |
| PHOT 28                                                                                         | Photography Portfolio                                          | 3.0                                                                                              | Select eigh                                                                               | nt (8) courses from:                                                                                                                                                                      |                                                   | ANAL TO INTOQUEED Y NUMBER                                                                                                                                             |                                                                                                                                                                                  |
|                                                                                                 | Development                                                    |                                                                                                  | DNCE                                                                                      | Dance: Activity                                                                                                                                                                           | 0.5 - 2.0 CSU,UC                                  | Anatomy Human Physiology and Microbiology                                                                                                                              | ology 5.0 CSU,UC                                                                                                                                                                 |
| PHOT 30                                                                                         | Commercial                                                     | 3.0                                                                                              | PE-A                                                                                      | Physical Education:                                                                                                                                                                       | 0.5 - 2.0 CSU,UC                                  | prerequisite courses with no grade less than a "C" for MICP 22 Microbiology                                                                                            | 4.0 CSU,UC                                                                                                                                                                       |
|                                                                                                 | and Illustrative Photography                                   |                                                                                                  |                                                                                           | Aquatics                                                                                                                                                                                  |                                                   | each course and no more than one repetition of any FNGL 1A Freshman Composition                                                                                        |                                                                                                                                                                                  |
| -                                                                                               | Total Units                                                    | 37.0                                                                                             | PE-F                                                                                      | Physical Education: Fitness                                                                                                                                                               |                                                   | A cumulative grade point average (GPA) of 2.5 for all                                                                                                                  | 4.0 050,00                                                                                                                                                                       |
|                                                                                                 | ded Electives:                                                 |                                                                                                  | PE-I                                                                                      | Physical Education:                                                                                                                                                                       | 0.5 - 1.0 CSU,UC                                  | College Coursework completed.                                                                                                                                          | on - Honors 4.0 CSU,UC                                                                                                                                                           |
| AHIS 1                                                                                          | Understanding the Visual Arts                                  |                                                                                                  |                                                                                           | Individual                                                                                                                                                                                |                                                   | Eligibility for MATH 51. CHI D 10 Child Growth and De                                                                                                                  | velopment 3.0 CSU,UC                                                                                                                                                             |
| ARTB 1                                                                                          | <u>Or</u><br>Understanding the Visual Arts                     |                                                                                                  | PE-L                                                                                      | Physical Education:                                                                                                                                                                       | 0.5 - 1.0 CSU,UC                                  | High school graduation or GED or academic degree from                                                                                                                  |                                                                                                                                                                                  |
| GRAP 12                                                                                         | Understanding the Visual Arts<br>Advanced Photo Editing with F | Photoshon                                                                                        | PE-S                                                                                      | Adaptive<br>Physical Education:                                                                                                                                                           | 0.5 - 1.0 CSU,UC                                  | an accredited college/university in the United States. CHLD 10H Child Growth and De                                                                                    | velopment 3.0 CSU,UC                                                                                                                                                             |
| PHOT 1                                                                                          | Laboratory Studies:                                            | notosnop                                                                                         | FE-3                                                                                      | Team Sports                                                                                                                                                                               | 0.3 - 1.0 C30,0C                                  | Possess a current California Psychiatric Technician License Honors                                                                                                     |                                                                                                                                                                                  |
|                                                                                                 | Black and White Photography                                    |                                                                                                  |                                                                                           | Total Units                                                                                                                                                                               | 28.6 - 41.5                                       | Criminal background check and drug screening must PSYC 14 Developmental Psyc                                                                                           |                                                                                                                                                                                  |
| PHOT 25                                                                                         | Digital Capture Work Flow                                      |                                                                                                  |                                                                                           | iotal office                                                                                                                                                                              | 2010 1115                                         | be passed prior to any patient contact. PSYC 1A Introduction to Psyc<br>A physical examination, including specific SPCH 1A Public Speaking                             |                                                                                                                                                                                  |
| PHOT 29                                                                                         | Studio Business Practices                                      |                                                                                                  |                                                                                           |                                                                                                                                                                                           |                                                   | increase in a second set all second in the second set and                                                                                                              | 4.0 CSU,UC                                                                                                                                                                       |
|                                                                                                 | for Commercial Artists                                         |                                                                                                  |                                                                                           |                                                                                                                                                                                           |                                                   | the beginning of nursing classes. <u>or</u><br>SPCH 1AH Public Speaking - Ho                                                                                           | nors 4.0 CSU,UC                                                                                                                                                                  |
|                                                                                                 |                                                                |                                                                                                  |                                                                                           |                                                                                                                                                                                           |                                                   | Current Level C-Provider CPR certification Total Units                                                                                                                 | 28.0 - 31.0                                                                                                                                                                      |
|                                                                                                 |                                                                |                                                                                                  |                                                                                           |                                                                                                                                                                                           |                                                   | Nursing 70 Role Transition must be completed with a <b>NOTE: Applicants planning to co</b>                                                                             |                                                                                                                                                                                  |
|                                                                                                 |                                                                |                                                                                                  |                                                                                           |                                                                                                                                                                                           |                                                   | credit grade prior to entrance into the program. <i>and enter a baccalaureate prog</i>                                                                                 |                                                                                                                                                                                  |
|                                                                                                 |                                                                |                                                                                                  |                                                                                           |                                                                                                                                                                                           |                                                   | 70: Role Transition - Due to the clinical component of                                                                                                                 |                                                                                                                                                                                  |
|                                                                                                 |                                                                |                                                                                                  |                                                                                           |                                                                                                                                                                                           |                                                   | 70, applicants must submit their names to Nursing         and ANAT 10B and MICR 1 inste                                                                                | ad of MICK 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:

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

### Working Environment:

- n May be exposed to infectious and contagious disease, without prior notification
- n Regularly exposed to the risk of blood borne diseases
- $\tt n \quad Exposed \ to \ hazardous \ agents, \ body \ fluids \ and \ wastes$
- n Exposed to odorous chemicals and specimens
- n Subject to hazards of flammable, explosive gases
- n 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
- n Handle emergency or crisis situations
- n Subject to many interruptions
- n Requires decisions/actions related to end life issues
- n Exposed to products containing latex

### English Language Skills:

Although proficiency in English is not a criterion for admission into the Nursing Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

### 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 courses.

### Requirements for the Major Required courses:

| R-TV 01     | Introduction to Broadcasting      | 3.0   | CSU    |
|-------------|-----------------------------------|-------|--------|
| R-TV 09     | Broadcast Sales and Promotion     | 3.0   |        |
| R-TV 10     | Radio Management                  | 3.0   |        |
|             | and Programming                   |       |        |
| R-TV 11A    | Beginning Radio Production        | 3.0   | CSU    |
| R-TV 11B    | Advanced Radio Production         | 3.0   | CSU    |
| R-TV 12     | Commercial Copywriting            | 3.0   |        |
| R-TV 15     | Broadcast Business Practices      | 3.0   |        |
| R-TV 96     | Campus Radio Station Lab          | 1.0 - | - 2.0  |
| R-TV 97A    | Radio/Entertainment               | 1.0   |        |
|             | Industry Seminar                  |       |        |
|             | <u>and</u>                        |       |        |
| R-TV 97B    | Radio/Entertainment               | 1.0   |        |
|             | Industry Internship               |       |        |
| PLUS        |                                   |       |        |
| Select nine | (9) units from:                   |       |        |
| R-TV 26     | Legal Issues in Entertainment Lav | N3.0  |        |
| R-TV 31     | History of Radio DJs              | 3.0   |        |
| R-TV 32     | R-TV Internet Applications        | 3.0   |        |
| R-TV 33     | Radio Show Producer Techniques    | 3.0   |        |
|             | and Procedures                    |       |        |
|             | Total Units                       | 33.0  | - 34.0 |
|             |                                   |       |        |
|             |                                   |       |        |
|             |                                   |       |        |
|             |                                   |       |        |
|             |                                   |       |        |
|             |                                   |       |        |
|             |                                   |       |        |
|             |                                   |       |        |
|             |                                   |       |        |

### 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, induding disc jockey, news anchor, sportscaster, and commercial voice-overs. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of optional courses. Students intending to pursue a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

# Requirements for the Major *Required courses:*

|     | R-TV 01     | Introduction to Broadcasting                       | 3.0   |        |
|-----|-------------|----------------------------------------------------|-------|--------|
|     | R-TV 02     | On-Air Personality Development<br>or               | 3.0   | CSU    |
| U   | R-TV 02A    | On-Air Personality Development<br>- Spanish Market | 3.0   | CSU    |
|     | R-TV 05     | Radio-TV Newswriting                               | 3.0   |        |
|     | R-TV 07A    | Beginning Commercial Voice-Over                    | s 3.0 |        |
| U   | R-TV 11A    | Beginning Radio Production                         | 3.0   | CSU    |
| U   | R-TV 11B    | Advanced Radio Production                          | 3.0   | CSU    |
| 0   | R-TV 15     | Broadcast Business Practices                       | 3.0   |        |
|     | R-TV 96     | Campus Radio Station Lab                           | 1.0 - | - 2.0  |
| .0  | R-TV 97A    | Radio/Entertainment                                | 1.0   |        |
| .0  |             | Industry Seminar                                   |       |        |
|     | R-TV 97B    | Radio/Entertainment                                | 1.0   |        |
|     |             | Industry Internship                                |       |        |
|     | PLUS        |                                                    |       |        |
|     | Select nine | (9) units from:                                    |       |        |
|     | R-TV 03     | Sportscasting and Reporting                        | 1.5   |        |
|     | R-TV 04     | Broadcast News Field Reporting                     | 3.0   |        |
|     | R-TV 06     | Broadcast Traffic Reporting                        | 1.5   |        |
|     | R-TV 07B    | Advanced Commercial Voice-Ove                      | rs3.0 |        |
|     | R-TV 09     | Broadcast Sales and Promotion                      | 3.0   |        |
|     | R-TV 10     | Radio Management                                   | 3.0   |        |
|     |             | and Programming                                    |       |        |
| 1.0 | R-TV 12     | Commercial Copywriting                             | 3.0   |        |
|     | R-TV 17     | Internet Radio and Podcasting                      | 3.0   |        |
|     | R-TV 26     | Legal Issues in Entertainment La                   |       |        |
|     | R-TV 31     | History of Radio DJs                               | 3.0   |        |
|     | R-TV 32     | Radio-TV Internet Applications                     | 3.0   |        |
|     | R-TV 33     | Radio Show Producer Techniques<br>and Procedures   | 5 3.0 |        |
|     |             |                                                    | 33.0  | - 34.0 |
|     |             |                                                    |       |        |
|     |             |                                                    |       |        |

### **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 in Science degree in Radiologic Technology, graduates are eligible to apply for the registry examination through the American Registry of Radiologic Technologists and the California Certification of Radiologic Technology. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.

# Requirements for the Major *Required courses:*

| ANAT 10A | Introductory Human Anatomy   | 4.0 | CSU,UC |
|----------|------------------------------|-----|--------|
| 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                   | 5.0 | CSU    |
|          | of Radiologic Technology     |     |        |
| RAD 52B  | Techniques                   | 2.5 | CSU    |
|          | of Radiologic Technology     |     |        |
| RAD 53   | Techniques                   | 5.0 | CSU    |
|          | of Radiologic Technology     |     |        |
| RAD 54   | Techniques                   | 3.0 | CSU    |
|          | of Radiologic Technology     |     |        |
| RAD 55A  | Techniques                   | 7.5 | CSU    |
|          | of Radiologic Technology     |     |        |
| RAD 55B  | Techniques                   | 2.5 | CSU    |
|          | of Radiologic Technology     |     |        |
| RAD 56   | Techniques                   | 7.0 | CSU    |
|          | of Radiologic Technology     |     |        |
| RAD 57   | Techniques                   | 4.5 | CSU    |
|          | of Radiologic Technology     |     |        |

| RAD 61A                                          | Theory of Radiologic Technology | 4.0  | CSU |  |  |  |  |
|--------------------------------------------------|---------------------------------|------|-----|--|--|--|--|
| RAD 61B                                          | Radiographic Positioning        | 3.0  | CSU |  |  |  |  |
| RAD 61C                                          | Radiologic Technology Seminar   | 1.5  | CSU |  |  |  |  |
| RAD 62A                                          | Theory of Radiologic Technology | 4.0  | CSU |  |  |  |  |
| RAD 62B                                          | Radiographic Positioning        | 3.0  | CSU |  |  |  |  |
| RAD 62C                                          | Radiologic Technology Seminar   | 1.5  | CSU |  |  |  |  |
| RAD 63                                           | Theory of Radiologic Technology | 4.0  | CSU |  |  |  |  |
| RAD 64                                           | Theory of Radiologic Technology | 4.0  | CSU |  |  |  |  |
| RAD 91                                           | Nursing Procedures              | 1.5  | CSU |  |  |  |  |
|                                                  | in Radiologic Technology        |      |     |  |  |  |  |
|                                                  | Total Units                     | 79.0 |     |  |  |  |  |
| NOTE: ANAT 104 and MEDI 00 may be taken prior to |                                 |      |     |  |  |  |  |

# 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.
- 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 Algebra (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 Radiologic Technology Program to the Technology and Health Division Office (909) 594-5611, ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. A program begins each summer 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.
- 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

Make an appointment with an educational advisor to review general education requirements for graduation.

### Acceptance Requirements:

- 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.
- b) 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.
- c) 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:

- 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Require    | ments for the Major                     |        |        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------|--------|--------|
|      | or herself from injury caused by patients exhibiting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Required c | ourses:                                 |        |        |
|      | aggressive behaviors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BUSR 50    | Real Estate Principles                  | 3.0    | CSU    |
| e)   | Physically place patients in the proper positions for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BUSR 51    | Legal Aspects of Real Estate            | 3.0    |        |
|      | the examination according to established procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BUSR 52    | Real Estate Practice, or                | 3.0    |        |
|      | and standards of speed and accuracy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BUSR 52D   | Real Estate Practice                    | 3.0    |        |
| f)   | Rapidly respond to situations involving the health                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | Work Experience                         |        |        |
|      | and safety of patients, providing physical and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BUSR 53    | Real Estate Finance                     | 3.0    |        |
|      | emotional support to the patient during radiographic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BUSR 55    | Real Estate Economics                   | 3.0    |        |
|      | procedures, providing basic first aid and emergency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BUSR 81    | Appraisal:                              | 3.5    |        |
| ,    | care in the absence of or until a physician arrives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Principles and Procedures               |        |        |
| g)   | Function adequately under stressful situations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CISB 15    | Microcomputer Applications              | 4.0    | CSU,UC |
|      | related to technical and procedural standards of patient care situations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PLUS       |                                         |        |        |
| L)   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Group A    |                                         |        |        |
| h)   | Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | (2), three (3) or four (4) courses      |        |        |
|      | individuals remote from the location of the student.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BUSR 57    | Income Tax Aspects                      | 3.0    |        |
| :)   | Speak English clearly enough to explain and direct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | of Real Estate Investments              |        |        |
| i)   | procedural information to patients, and to communicate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BUSR 59    | Real Estate Property Managem            |        |        |
|      | with physicians, technical staff, and faculty. Students for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BUSR 60    | Real Estate Investment Plannir          |        |        |
|      | which English is a second language may be required to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BUSR 62    | Mortgage Loan Brokering                 | 3.0    |        |
|      | complete a verbal communication assessment prior to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | and Lending                             |        |        |
|      | entering the program.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BUSR 76    | Escrow Procedures I                     | 3.0    |        |
| j)   | Calculate and select proper technical exposure factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PLUS       |                                         |        |        |
|      | according to the individual needs of the patient's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Group B    | (0) and (1) an true (2) courses for     |        |        |
|      | condition and requirements of the procedure with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BUSA 7     | (0), one (1) or two (2) courses fr      |        | COLUC  |
|      | speed and accuracy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BUSA /     | Principles of Accounting<br>- Financial | 5.0    | CSU,UC |
| k)   | View and evaluate the recorded images of a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BUSA 11    | Fundamentals of Accounting              | 3.0    |        |
|      | radiograph for the purpose of identifying porper patient positioning, accurate procedural sequencing,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BUSA 72    | Bookkeeping - Accounting                | 5.0    |        |
|      | proper exposure (and/or"s" number), and other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BUSL 18    | Business Law                            | 3.0    | CSU,UC |
|      | established technical qualities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BUSM 20    | Principles of Business                  |        | CSU,UC |
| Fnal | ish Language Skills:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BUSM 60    | Human Relations in Business             |        | CSU    |
|      | 5 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BUSM 66    | Small Business Management               |        | CSU    |
|      | ough proficiency in English is not a criterion for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUSO 5     | Business English                        | 3.0    |        |
|      | ission into the Radiologic Technology Program,<br>ents must be able to speak, write and read English to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BUSO 25    | Business Communications                 | 3.0    | CSU    |
|      | re patient safety and to complete classes successfully.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BUSO 26    | Oral Communications for Busin           | ess3.0 |        |
|      | re putent surcey and to complete classes successions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BUSS 35    | Professional Selling                    | 3.0    | CSU    |
| Do   | al Estate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BUSS 36    | Principles of Marketing                 |        | CSU    |
|      | iness Administration Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PSYC 1A    | Introduction to Psychology              |        | CSU,UC |
|      | or S0512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | Total Units                             |        | - 44.5 |
|      | program prepares students for employment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                         |        |        |
|      | wing graduation. Students wishing a bachelor's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Real Fe    | tate Appraisal                          |        |        |
|      | ee (transfer program) should consult with a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | Administration Departme                 | ent    |        |
|      | and a second strain of a second | Dasiness   |                                         |        |        |

Major S0513

This program prepares students for employment

to discuss transferability of courses.

following graduation. Students wishing a bachelor's

degree (transfer program) should consult with an advisor

- Rapidly respond to situations inv f) and safety of patients, providing emotional support to the patient procedures, providing basic first care in the absence of or until a p
- q) Function adequately under stress related to technical and procedur patient care situations.
- Hear well enough (average 30 de h) to respond to directions or calls for individuals remote from the locat
- Speak English clearly enough to ex i) procedural information to patients with physicians, technical staff, and which English is a second language complete a verbal communication entering the program.
- Calculate and select proper techn i) according to the individual needs condition and requirements of th speed and accuracy.
- View and evaluate the recorded k) radiograph for the purpose of ide patient positioning, accurate proc proper exposure (and/or "s" numl established technical qualities.

### **English Language Skills:**

### **Real Estate**

### **Business Administration Depar** Major S0512

This program prepares students for en following graduation. Students wishin degree (transfer program) should cons 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.

|                                                            | Required c                                                                                                                                                                                                                                                                            | ourses:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                              |                                                                                                               |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| CSU                                                        | BUSR 81                                                                                                                                                                                                                                                                               | Appraisal: Principles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.5                                                                                                                                                                                          |                                                                                                               |
|                                                            |                                                                                                                                                                                                                                                                                       | and Procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                                                                                                               |
|                                                            | BUSR 82                                                                                                                                                                                                                                                                               | Uniform Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.0                                                                                                                                                                                          |                                                                                                               |
|                                                            |                                                                                                                                                                                                                                                                                       | of Professional Appraisal Practi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ice                                                                                                                                                                                          |                                                                                                               |
|                                                            | BUSR 83                                                                                                                                                                                                                                                                               | Residential Appraisal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.5                                                                                                                                                                                          |                                                                                                               |
|                                                            | BUSR 84                                                                                                                                                                                                                                                                               | Residential Appraisal: Case Stu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | dies2.5                                                                                                                                                                                      |                                                                                                               |
|                                                            | PLUS                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                              |                                                                                                               |
|                                                            |                                                                                                                                                                                                                                                                                       | n (7) courses from:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                               |
|                                                            | BUSA 11                                                                                                                                                                                                                                                                               | Fundamentals of Accounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.0                                                                                                                                                                                          |                                                                                                               |
| CSU,UC                                                     | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                              |                                                                                                               |
|                                                            | BUSR 76                                                                                                                                                                                                                                                                               | Escrow Procedures I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.0                                                                                                                                                                                          |                                                                                                               |
|                                                            | CISB 15                                                                                                                                                                                                                                                                               | Microcomputer Applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4.0                                                                                                                                                                                          | CSU,UC                                                                                                        |
|                                                            | INSP 70                                                                                                                                                                                                                                                                               | Elements of Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                              | CSU                                                                                                           |
|                                                            |                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 21 5                                                                                                                                                                                         | - 32.5                                                                                                        |
|                                                            |                                                                                                                                                                                                                                                                                       | Total Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 51.5                                                                                                                                                                                         | - 32.3                                                                                                        |
| CSU,UC                                                     | Agricultu                                                                                                                                                                                                                                                                             | ered Veterinary Tech<br>Iral Sciences Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                              |                                                                                                               |
| CSU,UC                                                     | Agricultu<br>Major SO<br>The program<br>students to                                                                                                                                                                                                                                   | ered Veterinary Tech<br>Iral Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | gned to                                                                                                                                                                                      | <b>gy</b><br>enable                                                                                           |
| CSU,UC<br>CSU,UC                                           | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural                                                                                                                                                                                                    | ered Veterinary Tech<br>Iral Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | gned to<br>tial and<br>iensive<br>in that i                                                                                                                                                  | enable<br>diverse                                                                                             |
| -                                                          | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro                                                                                                                                                                                     | ered Veterinary Tech<br>Iral Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designe                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | gned to<br>tial and<br>tensive<br>in that i<br>ed to gi                                                                                                                                      | enable<br>diverse<br>most<br>ve the                                                                           |
| CSU,UC<br>CSU,UC<br>CSU                                    | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c                                                                                                                                                                      | ered Veterinary Tech<br>aral Sciences Department<br>105<br>m of courses in Agriculture is desi-<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designed<br>ombination of practical skills and                                                                                                                                                                                                                                                                                                                                                                                                                             | gned to<br>tial and<br>tensive<br>in that t<br>ed to gi<br>technic                                                                                                                           | enable<br>enable<br>diverse<br>most<br>ve the<br>al                                                           |
| CSU,UC<br>CSU,UC                                           | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge                                                                                                                                                         | ered Veterinary Tech<br>aral Sciences Department<br>105<br>m of courses in Agriculture is desi-<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designed<br>ombination of practical skills and<br>. Students who intend to transfer                                                                                                                                                                                                                                                                                                                                                                                        | gned to<br>tial and<br>tensive<br>in that i<br>ed to gi<br>technic<br>should                                                                                                                 | PGY<br>enable<br>diverse<br>most<br>ve the<br>al<br>check                                                     |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU                      | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d                                                                                                                                          | ered Veterinary Tech<br>aral Sciences Department<br>105<br>m of courses in Agriculture is desi-<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designed<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalo                                                                                                                                                                                                                                                                                                                                                 | gned to<br>tial and<br>nensive<br>in that i<br>ed to gi<br>technic<br>should<br>og of the                                                                                                    | PGY<br>enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college                                        |
| CSU,UC<br>CSU,UC<br>CSU                                    | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit                                                                                                                          | ered Veterinary Tech<br>Iral Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designed<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalod<br>y which they plan to attend and                                                                                                                                                                                                                                                                                                              | gned to<br>tial and<br>tensive<br>in that i<br>ed to gi<br>technic<br>should<br>og of the<br>also the                                                                                        | PGY<br>enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college                                        |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU                      | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester au                                                                                                           | ered Veterinary Tech<br>and Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designe<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalo<br>y which they plan to attend and<br>and year in which courses are offer                                                                                                                                                                                                                                                                          | gned to<br>tial and<br>tial and<br>tensive<br>in that i<br>ed to gi<br>technic<br>should<br>og of the<br>also the<br>red.                                                                    | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college                                               |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU<br>CSU               | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester au<br>The followin                                                                                           | ered Veterinary Tech<br>and Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience design<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalo<br>y which they plan to attend and<br>and year in which courses are offer<br>ng programs list all courses neede                                                                                                                                                                                                                                     | gned to<br>tial and<br>eensive<br>in that i<br>ed to gi<br>technic<br>should<br>og of the<br>also the<br>red.<br>d to sat                                                                    | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college                                               |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU        | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester au<br>The followin<br>major requi                                                                            | ered Veterinary Tech<br>and Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience design<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalo<br>y which they plan to attend and<br>and year in which courses are offer<br>ng programs list all courses needed<br>irements. It is recommended that a                                                                                                                                                                                              | gned to<br>tial and<br>tensive<br>in that i<br>ed to gi<br>technic<br>should<br>og of the<br>also the<br>red.<br>d to sat<br>all stude                                                       | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college<br>sisfy<br>ents                              |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU,UC     | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester an<br>The followin<br>major requi<br>consult witt                                                            | ered Veterinary Tech<br>and Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designe<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalo<br>y which they plan to attend and<br>and year in which courses are offer<br>ng programs list all courses needed<br>irements. It is recommended that a<br>h the department chairperson or f                                                                                                                                                        | gned to<br>tial and<br>ensive<br>in that i<br>ed to gi<br>technic<br>should<br>og of the<br>also the<br>red.<br>d to sat<br>all stude<br>faculty a                                           | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college<br>s<br>isfy<br>ents<br>dvisor to             |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU        | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester an<br>The followin<br>major requi<br>consult with<br>file an educ<br>plan with ti                            | ered Veterinary Tech<br>and Sciences Department<br>105<br>m of courses in Agriculture is desi-<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designe<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalo<br>y which they plan to attend and<br>and year in which courses are offer<br>ng programs list all courses needed<br>irements. It is recommended that a<br>the department chairperson or f<br>fational plan. Students must file an<br>he Director of the Registered Veter                                                                          | gned to<br>tial and<br>tensive<br>in that 1<br>technic<br>should<br>yg of the<br>also the<br>red.<br>d to sat<br>all stude<br>faculty a<br>n educa<br>rinary                                 | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college<br>s<br>isfy<br>ents<br>dvisor to             |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU,UC     | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester an<br>The followin<br>major requi<br>consult with<br>file an educ<br>plan with ti                            | ered Veterinary Tech<br>and Sciences Department<br>105<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designe<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalo<br>y which they plan to attend and<br>and year in which courses are offer<br>ng programs list all courses needed<br>irements. It is recommended that a<br>the department chairperson or f<br>fational plan. Students must file an                                                                                                                  | gned to<br>tial and<br>tensive<br>in that 1<br>technic<br>should<br>yg of the<br>also the<br>red.<br>d to sat<br>all stude<br>faculty a<br>n educa<br>rinary                                 | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college<br>s<br>isfy<br>ents<br>dvisor to             |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU,UC     | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester an<br>The followin<br>major requi<br>consult with<br>file an educ<br>plan with t<br>Technology<br>These prog | ered Veterinary Tech<br>aral Sciences Department<br>(105)<br>m of courses in Agriculture is desi<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience designed<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalor<br>y which they plan to attend and<br>and year in which courses are offer<br>ng programs list all courses needer<br>rements. It is recommended that<br>the department chairperson or f<br>ational plan. Students must file ar<br>he Director of the Registered Veter<br>Program during the first year of s<br>rams are intended to prepare st | gned to<br>tial and<br>nensive<br>in that i<br>ed to gi<br>technic<br>should<br>bg of the<br>also the<br>red.<br>d to sat<br>all stude<br>faculty a<br>n educa<br>rinary<br>tudy.<br>cudents | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college<br>st<br>isfy<br>ents<br>idvisor to<br>tional |
| CSU,UC<br>CSU,UC<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU<br>CSU | Agricultu<br>Major SO<br>The program<br>students to<br>profession.<br>agricultural<br>courses pro<br>student a c<br>knowledge<br>the lower d<br>or universit<br>semester an<br>The followin<br>major requi<br>consult with<br>file an educ<br>plan with t<br>Technology<br>These prog | ered Veterinary Tech<br>and Sciences Department<br>problem of courses in Agriculture is design<br>prepare for a career in this essen<br>The department offers a compreh<br>sciences program and is unique i<br>vide hands-on experience design<br>ombination of practical skills and<br>. Students who intend to transfer<br>livision requirements in the catalor<br>y which they plan to attend and<br>and year in which courses are offer<br>ng programs list all courses needer<br>rements. It is recommended that<br>the department chairperson or f<br>ational plan. Students must file ar<br>he Director of the Registered Veter<br>Program during the first year of s                                        | gned to<br>tial and<br>nensive<br>in that i<br>ed to gi<br>technic<br>should<br>bg of the<br>also the<br>red.<br>d to sat<br>all stude<br>faculty a<br>n educa<br>rinary<br>tudy.<br>cudents | enable<br>diverse<br>most<br>ve the<br>al<br>check<br>e college<br>st<br>isfy<br>ents<br>idvisor to<br>tional |

**Requirements for the Major** 

dents for 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 AGLI 30 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 Animal Sanitation 3.0 CSU AGLI 96 and Disease Control

### Reauired courses 2nd vear: Medical Nursing and Animal Care 4.0 CSU AGHE 60 AGHE 61 4.0 CSU Surgical Nursing 4.0 CSU AGHE 62A Clinical Pathology 4.0 CSU AGHE 62B Clinical Pathology AGHE 64 Veterinary Pharmacology 3.0 CSU AGHE 65 Veterinary Radiography 2.0 CSU AGHE 79 Laboratory Animal Medicine 3.0 CSU and Care AGHE 84A Applied Animal Health Procedures 1.0 01 AGHE 84B Applied Animal Health Procedures 1.0 AGHE 85 Seminar in Animal 1.0 Health Technology Anatomy and Physiology of AGHE 86 4.0 **Domestic Animals** PLUS Select four (4) units of work experience: AGHE 83A Work Experience in Animal Health1.0 – 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,UC 3.0 CSU AGLI 17 Sheep Production AGLI 18 Horse Ranch Management 4.0 CSU 2.0 CSU AGLI 19 Horse Hoof Care

**Beef Production** 

PROGRAMS LEADING

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 | y Birds 3.0 |
|         | Total Units                  | 58.0        |

### **Respiratory Therapy Respiratory Technology Department** Major 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 the ability to perform fine motor movements with hands and fingers is required in learning the operation of specialized equipment. This includes diagnostic apparatus which aids the physician in detecting cardiorespiratory diseases.

2.0. ((1)

### **Requirements for the Major** Required courses: 10. . .

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| RESD 50  | Theory and Principles             |     | CSU |
|----------|-----------------------------------|-----|-----|
|          | of Respiratory Therapy            |     |     |
| RESD 51A | Respiratory Therapy Science       | 4.0 | CSU |
| RESD 51B | Respiratory Therapy Science       | 4.0 | CSU |
| RESD 52  | Pulmonary Anatomy                 | 3.0 | CSU |
|          | and Physiology                    |     |     |
| RESD 53  | Cardiopulmonary Pathophysiology   | 3.0 | CSU |
| RESD 55  | Adult Respiratory Intensive Care  | 3.0 | CSU |
| RESD 56A | Techniques of Respiratory Therapy | 2.5 | CSU |
| RESD 56B | Techniques of Respiratory Therapy | 6.0 | CSU |
| RESD 56C | Techniques of Respiratory Therapy | 2.5 | CSU |
| RESD 56D | Techniques of Respiratory Therapy | 6.0 | CSU |
| RESD 57A | Special Procedures                | 1.5 | CSU |
|          | for Respiratory Care              |     |     |
| RESD 57B | Special Procedures                | 1.5 | CSU |
|          | for Respiratory Care              |     |     |

| RESD 58 | Neonatal Intensive Care          | 3.0    | CSU |
|---------|----------------------------------|--------|-----|
| RESD 59 | Respiratory Therapeutic          | 3.0    | CSU |
|         | Modalities                       |        |     |
| RESD 60 | Comprehensive Pulmonary          | 2.0    | CSU |
|         | Assessment                       |        |     |
| RESD 61 | Current Issues in Respiratory Ca | re 3.0 | CSU |
|         | Total Units                      | 50.0   |     |

### **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.
- File a college application and be accepted as a 2) 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

- 4) Submit an application for the Respiratory Therapy Program to the Technology and Health Division Office (Bldg. 28A, Room 101E), (909) 594-5611, ext. 4750. All applications are dated upon receipt.
  - It is highly recommended that students complete their general education requirements prior to entering the program.

### Foreian 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.

### **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 Reauirements:**

RESD 50 pre-requisites ANAT 10A/10B, CHEM 10, MATH 51 must be completed prior to entering the program.

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
- <u>Depth perception:</u> ability to judge distance and space relationships
- *Near vision:* ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

### Working Environment:

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

### English Language Skills:

Although proficiency in English is not a criterion for admission into the Respiratory Therapy Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

### 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 in Arts degree.

All students entering the program must submit an educational plan showing the major course requirements with the general education requirements for the degree.

To remain in the program, students must maintain a "C" or better grade in all courses.

Upon completion of the 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.

### **Readmission Policy**

To remain in the program, students must maintain a "C" or better grade in all courses. Students who are dropped, failed, or withdrew from the program may request readmission for the following year in the semester in which they were stopped or may re-start the program. Students who re-start the program will be required to retake all Respiratory Therapy courses even if satisfactory grades were received. Re-entry may occur only one time.

### 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 in Science degree in Sign Language/Interpreting.

| Requirements             | for | the | Major |
|--------------------------|-----|-----|-------|
| <b>Required courses:</b> |     |     |       |

| 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     | 3.0 | CSU,UC |
|          | Structure                  |     |        |
| SIGN 220 | Translation: American Sign | 3.0 | CSU    |
|          | Language/English           |     |        |
| SIGN 223 | Principles of Interpreting | 3.0 | CSU    |
| SIGN 225 | Ethical Decision Making    | 2.0 |        |
|          | for Interpreters           |     |        |
| 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 thre | e (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                                                   | 5.0  | CSU,UC |  |  |
|                                                               | - Financial                                                                |      |        |  |  |
| 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    |  |  |
|                                                               | and Management                                                             |      |        |  |  |
| 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 |  |  |
|                                                               | Total Units                                                                | 30.0 |        |  |  |
| Recomment                                                     | led 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      |                                                                            |      |        |  |  |
| ,                                                             | ssor of Small Business Management<br>which electives would best suit their |      | ,      |  |  |
| 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 gualifies the student for an Associate in 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 Reauired courses:**

| R-TV 01     | Introduction to Broadcasting           | 3.0  | CSU    |
|-------------|----------------------------------------|------|--------|
| R-TV 14     | Media Aesthetics                       | 3.0  |        |
| R-TV 19A    | <b>Beginning Television Production</b> | 3.0  | CSU    |
| R-TV 19B    | Advanced Television Production         | 3.0  | CSU    |
| R-TV 22     | Editing for Film and Television        | 3.0  |        |
| R-TV 100    | Work Experience in Film and TV         | 1.0  | 3.0    |
| PLUS        |                                        |      |        |
| Select 12.0 | -12.5 units from:                      |      |        |
| R-TV 05     | Radio-TV Newswriting                   | 3.0  |        |
| R-TV 18     | Writing for Television/Film            | 3.0  | CSU    |
| R-TV 20     | <b>Television News Production</b>      | 3.0  |        |
| R-TV 21     | <b>Remote Television Production</b>    | 3.5  |        |
|             | and Engineering                        |      |        |
| R-TV 23     | Reality Show Production                | 3.0  |        |
|             | Total Units                            | 28.0 | - 30.5 |
| Recommen    | ded Electives:                         |      |        |
| ANIM 115    | Storyboarding                          |      |        |
| R-TV 26     | Current Issues in Entertainment        | Law  |        |
| THTR 17     | Acting for the Camera                  |      |        |
|             |                                        |      |        |
|             |                                        |      |        |

### Welding

Air Conditioning, Water & Welding Technologies Maior 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. 

| Requirer    | nents for the Major         |                   |
|-------------|-----------------------------|-------------------|
| Required co | ourses:                     |                   |
| WELD 40     | Introduction to Welding     | 2.0 CSU           |
| WELD 50     | Oxyacetylene Welding        | 2.0               |
| WELD 51     | Basic Electric Arc Welding  | 2.0               |
| WELD 53A    | Welding Metallurgy          | 3.0 CSU           |
| WELD 70A    | Beginning Arc Welding       | 3.0               |
| WELD 70B    | Intermediate Arc Welding    | 3.0               |
| WELD 70C    | Certification for Welders   | 3.0               |
| WELD 80     | Construction Fabrication    | 3.0               |
|             | and Welding                 |                   |
|             | Total Units                 | 21.0              |
| Recommen    | ded Electives:              |                   |
| BUSM 61     | Business Organization and N | lanagement        |
| EDT 11      | Technical Engineering Drawi | ing l             |
| MFG 70      | Technical Mathematics       |                   |
|             | - Manufacturing Application | IS                |
| WELD 30     | Metal Sculpture             |                   |
| WELD 60     | Print Reading and Computat  | tions for Welders |
| WELD 81     | Pipe and Tube Welding       |                   |
|             |                             |                   |
|             |                             |                   |
|             |                             |                   |
|             |                             |                   |

### ASSOCIATE IN ARTS DEGREES (A.A.)

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

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

Mt. San Antonio College's Associate in 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 in 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 in 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<br>(choos                                               | Emphasis Requirem                                                                                                                                                           | nents                                           | BUSC 1B                                              | Principles of Economics<br>- Microeconomics<br><u>or</u>                                                                                                | 3.0               |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Associate in Arts degree                                        |                                                                                                                                                                             | BUSC 1BH                                        | Principles of Economics<br>- Microeconomics - Honors | 3.0                                                                                                                                                     |                   |
| in Libe                                                         | ral Arts and Sciences                                                                                                                                                       | 5                                               | CISB 15                                              | Microcomputer Applications                                                                                                                              | 4.0               |
| Emphasis                                                        | s in Business                                                                                                                                                               |                                                 |                                                      | <u>or</u>                                                                                                                                               |                   |
| Degree A                                                        |                                                                                                                                                                             |                                                 | CISB 11                                              | Computer Information Systems                                                                                                                            | 3.5               |
|                                                                 | is in Business provides the student                                                                                                                                         |                                                 | Plus select a minimum of three courses from the      |                                                                                                                                                         |                   |
| understanding of business and its role in society. Students     |                                                                                                                                                                             |                                                 |                                                      |                                                                                                                                                         |                   |
|                                                                 | 5                                                                                                                                                                           | /                                               | following v                                          | which should be selected in consu                                                                                                                       | Itation           |
| will have kr                                                    | nowledge of various business func                                                                                                                                           | tions and                                       | -                                                    | vhich should be selected in consu<br>nselor or educational advisor.                                                                                     | ltation           |
| will have kr<br>economic a                                      | 5                                                                                                                                                                           | tions and<br>legree students                    | -                                                    |                                                                                                                                                         | Itation<br>3.0    |
| will have kr<br>economic a<br>will be prep                      | nowledge of various business funct<br>nalysis. Upon completion of this o<br>vared for an entry level job in the                                                             | tions and<br>legree students                    | with a cou                                           | nselor or educational advisor.                                                                                                                          |                   |
| will have kr<br>economic a<br>will be prep                      | nowledge of various business funct<br>nalysis. Upon completion of this o<br>nared for an entry level job in the<br>Ined Courses                                             | tions and<br>legree students                    | with a could BUSO 25                                 | <b>nselor or educational advisor.</b><br>Business Communications                                                                                        | 3.0<br>3.0        |
| will have kr<br>economic a<br>will be prep<br><b>Core/Requi</b> | nowledge of various business funct<br>nalysis. Upon completion of this o<br>vared for an entry level job in the                                                             | tions and<br>legree students<br>business world. | with a could BUSO 25<br>BUSM 20                      | <b>nselor or educational advisor.</b><br>Business Communications<br>Principles of Business                                                              | 3.0<br>3.0        |
| will have kr<br>economic a<br>will be prep<br><b>Core/Requi</b> | nowledge of various business funct<br>nalysis. Upon completion of this of<br>nared for an entry level job in the l<br><b>red Courses</b><br>Principles of Economics         | tions and<br>legree students<br>business world. | with a could<br>BUSO 25<br>BUSM 20<br>BUSA 7         | <b>nselor or educational advisor.</b><br>Business Communications<br>Principles of Business<br>Principles of Accounting - Financial                      | 3.0<br>3.0<br>5.0 |
| will have kr<br>economic a<br>will be prep<br><b>Core/Requi</b> | owledge of various business funct<br>nalysis. Upon completion of this o<br>ared for an entry level job in the<br>red Courses<br>Principles of Economics<br>- Macroeconomics | tions and<br>legree students<br>business world. | with a could<br>BUSO 25<br>BUSM 20<br>BUSA 7         | nselor or educational advisor.<br>Business Communications<br>Principles of Business<br>Principles of Accounting - Financial<br>Principles of Accounting | 3.0<br>3.0<br>5.0 |

| lective C | ourse:                      |             |
|-----------|-----------------------------|-------------|
| PCH 7     | Intercultural Communication | 3.0         |
|           | Total Units                 | 18.5 - 23.0 |
|           | for Area of Emphasis        |             |
|           |                             |             |

# Associate in Arts degree in Liberal Arts and Sciences

### Emphasis in Communication

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**Degree A8982** An emphasis in Communication provides the student with an understanding of communication strategies, reasoning, logic, and critical analysis as it relates to human interaction within multiple cultural contexts.

# Core/Required Courses (7 units) SPCH 1A Public Speaking 4.0 Or 4.0 4.0 Or 4.0 4.0 Or 4.0 4.0 SPCH 1AH Fundamentals of Communication 4.0 Or 5PCH 26 Interpersonal Communication 3.0 Or 0r 0 0

SPCH 26H Interpersonal Communication 3.0 - Honors PLUS

### Select 11 units from the following:

| SPCH 1A  | Public Speaking                                      | 4.0 |
|----------|------------------------------------------------------|-----|
|          | (if not used in core)                                |     |
|          | <u>or</u>                                            |     |
| SPCH 1AH | Public Speaking - Honors<br>(if not used in core)    | 4.0 |
| SPCH 1B  | Intermediate Public Speaking                         | 3.0 |
| SPCH 2   | Fundamentals of Communication (if not used in core)  | 4.0 |
| SPCH 3   | Voice and Diction                                    | 3.0 |
| SPCH 4   | Performance of Literature                            | 3.0 |
| SPCH 6   | Group Communication                                  | 3.0 |
| SPCH 7   | Intercultural Communication                          | 4.0 |
|          | <u>or</u>                                            |     |
| SPCH 7H  | Intercultural Communication<br>- Honors              | 4.0 |
| SPCH 8   | Professional and Organizational                      | 3.0 |
|          | Speaking<br><u>or</u>                                |     |
| SPCH 8H  | Professional and Organizational<br>Speaking - Honors | 3.0 |
| SPCH 15  | Forensics Team                                       | 2.0 |
| SPCH 16  | Forensics - Individual Events                        | 2.0 |
| SPCH 17  | Forensics - Debate                                   | 2.0 |
|          |                                                      |     |

| SPCH 18  | Forensics - Readers Theater              | 2.0  |
|----------|------------------------------------------|------|
| SPCH 20  | Argumentation and Debate or              | 2.0  |
| SPCH 20H | <br>Argumentation and Debate<br>- Honors | 2.0  |
| SPCH 30  | Gateway to Communication<br>Studies      | 2.0  |
| SPCH 99  | Special Projects in Speech               | 2.0  |
| JOUR 100 | Mass Media and Society                   | 2.0  |
| JOUR 101 | Beginning News Writing                   | 2.0  |
| JOUR 102 | Intermediate News Writing                | 2.0  |
| JOUR 111 | Broadcast News Writing                   | 2.0  |
| PHOT 10  | Basic Digital and Film                   | 2.0  |
|          | Photography                              |      |
| R-TV 01  | Introduction to Broadcasting             | 2.0  |
| R-TV 11A | Beginning Radio Production               | 2.0  |
| R-TV 19A | Beginning Television Production          | 2.0  |
| R-TV 99  | Radio/TV Special Projects                | 2.0  |
|          | Total Units                              | 18.0 |
|          | for Area of Emphasis                     |      |

### Associate in Arts degree in Liberal Arts and Sciences 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 6 units from the list of approved 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 | Beginning Painting I             | 3.0    |
| AHIS 4   | History of Western Art:          | 3.0    |
|          | Prehistoric Through Gothic       |        |
|          | <u>or</u>                        |        |
| AHIS 4H  | History of Western Art:          | 3.0    |
|          | Prehistoric Through Gothic - Hon | ors    |
| AHIS 5   | History of Western Art:          | 3.0    |
|          | Renaissance Through Modern       |        |
|          | <u>or</u>                        |        |
| AHIS 5H  | History of Western Art:          | 3.0    |
|          | Renaissance Through Modern - H   | lonors |
| 1        |                                  |        |

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| Select two studio electives              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MUS 14A       | World Music         | 3.0                               | PHIL 12H   | Ethics - Honors               | 3.0 CSU,UC                                 | Foreign La | Foreign Languages:           |                                     |                    |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|-----------------------------------|------------|-------------------------------|--------------------------------------------|------------|------------------------------|-------------------------------------|--------------------|
| Select six (6) units from the following: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MUS 14B       | American Folk Music | 3.0                               | PHIL 20A   | History of Western Philosophy | 3.0                                        | ARAB 2     | Continuing Elementary Arabic |                                     |                    |
| ANIM 101A                                | Drawing - Gesture and Figure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0           | MUS 15              | Rock Music History                | 3.0        |                               | <u>or</u>                                  |            | CHIN 2                       | Continuing Elementary Chines        | e 4.0              |
| ARTB 14                                  | Basic Studio Arts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0           |                     | and Appreciation                  |            | PHIL 20AH                     | History of Western Philosophy              | 3.0        | CHIN 3                       | Intermediate Chinese                | 4.0                |
| ARTC 100                                 | Graphic Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.0           | Art History         | :                                 |            |                               | - Honors                                   |            | FRCH 2                       | Continuing Elementary French        | 4.0                |
|                                          | Illustration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0           | AHIS 3              | History of Women                  | 3.0        | PHIL 20B                      | History of Western Philosophy              | 3.0        | FRCH 3                       | Intermediate French                 | 4.0                |
| ARTD 15B                                 | Drawing: Intermediate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.0           |                     | and Gender in Art                 |            |                               | <u>or</u>                                  |            | GERM 2                       | Continuing Elementary Germa         | n 4.0              |
| ARTD 16                                  | Drawing: Perspective                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.0           |                     | <u>or</u>                         |            | PHIL 20BH                     | History of Western Philosophy              | 3.0        | GERM 3                       | Intermediate German                 | 4.0                |
|                                          | Drawing: Life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.0           | AHIS 3H             | History of Women                  | 3.0        | 00115                         | - Honors                                   |            | ITAL 2                       | Continuing Elementary Italian       | 4.0                |
| ARTD 27                                  | Painting: Watercolor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.0           |                     | and Gender in Art - Honors        |            | POLI 5                        | Political Theory I                         | 3.0        | ITAL 3                       | Intermediate Italian                | 4.0                |
|                                          | Introduction to Printmaking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.0           | AHIS 4              | History of Western Art:           | 3.0        | DOLLO                         | - Ancient to Modern                        | 2.0        | JAPN 2                       | Continuing Elementary Japane        | ese 4.0            |
|                                          | Printmaking: Introduction to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0           | /////               | Prehistoric Through Gothic        | 5.0        | POLI 9                        | Introduction to International<br>Relations | 3.0        | JAPN 3                       | Intermediate Japanese               | 4.0                |
| אדד עוווא                                | Lithography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.0           |                     | <u>or</u>                         |            |                               |                                            |            | SPAN 11                      | Spanish for the Spanish Speak       | ing 4.0            |
| ARTD 45A                                 | Printmaking: Introduction to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0           | AHIS 4H             | History of Western Art:           | 3.0        | English and                   | d Dramatic Arts Literatures:               |            | SPAN 12                      | Continuing Spanish                  | 4.0                |
| AKI D 45A                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.0           |                     | Prehistoric Through Gothic - Hon  |            | FRCH 60                       | French Culture Through Cinema              | 3.0        |                              | for the Spanish Speaking            |                    |
|                                          | Screen Printing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.0           | AHIS 5              | History of Western Art:           | 3.0        | ITAL 60                       | Italian Culture Through Cinema             | 3.0        | SPAN 2                       | Continuing Elementary Spanis        | h 4.0              |
| ARTG 20                                  | Art, Artists and Society                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.0           |                     |                                   | 5.0        | LIT 10                        | Survey of Shakespeare                      | 3.0        | SPAN 3                       | Intermediate Spanish                | 4.0                |
| ARTG 21A                                 | Introduction to Exhibition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.0           |                     | Renaissance Through Modern        |            | LIT 11A                       | World Literature                           | 3.0        | SIGN 101                     | American Sign Language 1            | 4.0                |
|                                          | Production                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                     | <u>or</u>                         | 2.0        | LIT 11B                       | World Literature                           | 3.0        | SIGN 101                     | American Sign Language 2            | 4.0                |
|                                          | Ceramics: Beginning I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.0           | AHIS 5H             | History of Western Art:           | 3.0        | LIT 15                        | Introduction to Cinema                     | 3.0        |                              | Total Units                         | <b>21.0 - 25.0</b> |
| ARTS 33                                  | Ceramics: Hand Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.0           |                     | Renaissance Through Modern - H    |            | SPCH 4                        | Oral Interpretation of Literature          | 3.0        |                              |                                     | 21.0-23.0          |
|                                          | Sculpture: Beginning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.0           | AHIS 6              | History of Modern Art             | 3.0        | THTR 10                       | History of Theater Arts                    | 3.0        |                              | for Area of Emphasis                |                    |
| ARTS 41A                                 | Sculpture: Life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.0           |                     | <u>or</u>                         |            |                               | d Literatures:                             |            |                              |                                     |                    |
| PHOT 10                                  | Basic Digital                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.0           | AHIS 6H             | History of Modern Art - Honors    | 3.0        | PHIL 15                       | Major World Religions                      | 2.0        |                              | ate in Arts degree                  |                    |
|                                          | and Film Photography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | AHIS 9              | History of Asian Art              | 3.0        | PHIL IS                       | , ,                                        | 3.0        |                              | ral Arts and Science                |                    |
|                                          | Total Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30.0          | AHIS 10             | A History of Greek and            | 3.0        |                               | <u>or</u>                                  | 2.0        | -                            | s in Information Technolo           | gy                 |
|                                          | for Area of Emphasis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                     | Roman Art and Architecture        |            | PHIL 15H                      | Major World Religions - Honors             | 3.0        | Degree A                     |                                     |                    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | AHIS 11             | History of African, Oceanic       | 3.0        | LIT 36                        | Introduction to Mythology                  | 3.0        |                              | s in Information Technology provide |                    |
| Associa                                  | ite in Arts degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                     | and Native American Art           |            | LIT 46                        | The Bible as Literature:                   | 3.0        |                              | lerstanding of software developmer  |                    |
|                                          | ral Arts and Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | s             | AHIS 12             | History of Precolumbian Art       | 3.0        |                               | Old Testament                              |            | -                            | s, operating systems, networks, and | network securi     |
|                                          | in Humanities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                     | <u>or</u>                         |            | LIT 47                        | The Bible as Literature:                   | 3.0        |                              | on Technology Basics                |                    |
| Degree A                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | AHIS 12H            | History of Precolumbian Art       | 3.0        |                               | New Testament                              |            | (3.5 - 4 un                  | its from the following):            |                    |
|                                          | is in Humanities provides the st                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | udent with an |                     | - Honors                          |            | History:                      |                                            |            | CISB 11                      | Computer Information System         | s 3.5              |
|                                          | ing of the interrelationship bety                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               | ARCH 31             | World Architecture I              | 3.0        | HIST 3                        | History of World Civilization              | 3.0        | CISB 15                      | Microcomputer Applications          | 4.0                |
|                                          | tory, music, literature and the o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                     | <u>or</u>                         |            |                               | <u>or</u>                                  |            | Software L                   | Development                         |                    |
|                                          | phical and political thought. The term of term |               | ARCH 32             | World Architecture II             | 3.0        | HIST 3H                       | History of World Civilization              | 3.0        |                              | lected from the following):         |                    |
|                                          | hens the understanding of othe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | er cultures   |                     | Philosophy and Political Science: |            |                               | - Honors                                   |            | CISP 11                      | Programming in Visual Basic         | 4.0                |
| through the                              | e study of a foreign language.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | PHIL 12             | Ethics                            | 3.0        | HIST 4                        | History of World Civilization              | 3.0        | CISP 21                      | Programming in Java                 | 4.0                |
| Select a tot                             | al of 18 units choosing courses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | from at least |                     | <u>or</u>                         |            |                               | <u>or</u>                                  |            | CISP 31                      | Programming in C++                  | 4.0                |
| 5 of the fol                             | lowing 7 categories:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | PHIL 12H            | Ethics - Honors                   | 3.0        | HIST 4H                       | History of World Civilization              | 3.0        | CISP 41                      | Programming in C#                   | 4.0                |
| Music:                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | PHIL 20A            | History of Western Philosophy     | 3.0        |                               | - Honors                                   | 5.0        | CISP 41<br>CISW 21           |                                     |                    |
| MUS 11A                                  | Music Literature Survey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.0           | PHIL 20R            | History of Western Philosophy     | 3.0        | HIST 10                       | History of Asia                            | 3.0        |                              | Secure Client Side                  | 4.0 CSU            |
| MUS 11B                                  | Music Literature Survey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.0           | POLI 5              | Political Science Theory          | 3.0        | HIST 11                       | History of Asia                            | 3.0        |                              | Web Programming                     | 4.0                |
| MUS 12                                   | History of Jazz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.0           | POLI 5<br>POLI 9    | Introduction to International     | 3.0<br>3.0 | HIST 16                       | The Wild West                              | 3.0        | CISW 24                      | Secure Server Side                  | 4.0                |
| MUS 12<br>MUS 13                         | Introduction to Music Appreciatio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               | LULI A              |                                   | 0.0        | סדוכוה                        |                                            | 5.0        |                              | Web Programming                     |                    |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11 3.0        |                     | Relations                         |            | LUCT 10                       | - A History, 1800-1890                     | 2.0        | Database                     | Technology                          |                    |
| MUC 101                                  | <u>or</u><br>Introduction to Music                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.0           |                     | and Political Sciences:           |            | HIST 19                       | History of Mexico                          | 3.0        | (4 units se                  | lected from the following):         |                    |
| MUS 13H                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.0           | PHIL 12             | Ethics                            | 3.0 CSU,UC | HIST 35                       | History of Africa                          | 3.0        | CISD 11                      | Database Management                 | 4.0                |
|                                          | Appreciation - Honors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                     | <u>or</u>                         |            | HIST 44                       | History of Native Americans                | 3.0        |                              | - Microcomputers                    |                    |

| CISD 21            | SQL Server                                                                            | 4.0        | PE 19        | Introduction to Care/               | 3.0            | PSYC 33      | Psychology for Effective Living           | 3.0             | READ 100         | Analysis and Critical Reading                           | 3.0     |
|--------------------|---------------------------------------------------------------------------------------|------------|--------------|-------------------------------------|----------------|--------------|-------------------------------------------|-----------------|------------------|---------------------------------------------------------|---------|
| CISD 31            | Database Management                                                                   | 4.0        |              | Prevention of Activity/Sports-Re    | lated Injuries | SOC 1        | Sociology                                 | 3.0             | SIGN 210         | American Sign                                           | 3.0     |
| Oneratina          | Systems and Networking                                                                |            | PE 34        | Fitness for Living                  | 3.0            |              | <u>or</u>                                 |                 |                  | Language Structure                                      |         |
|                    | lected from the following):                                                           |            | PE 39        | Techniques of Fitness Testing       | 2.0            | SOC 1H       | Sociology - Honors                        | 3.0             | STDY 100         | Student Achievement                                     | 3.0     |
| CISN 11            | Telecommunications Networking                                                         | 40         | PE 44        | Theory of Coaching                  | 3.0            | SOC 2        | Sociology                                 | 3.0             |                  | and Fundamentals of Learning                            |         |
| CISN 21            |                                                                                       | 4.0        | DN-T 18      | Introduction to Dance               | 3.0            |              | <u>or</u>                                 |                 | Lanauaae         | Arts and Diversity                                      |         |
| CISN 31            |                                                                                       |            | DN-T 20      | History and Appreciation of Dance   | 3.0            | SOC 2H       | Sociology - Honors                        | 3.0             |                  | 6 units selected from the follow                        | vina):  |
|                    | units selected from the following)                                                    |            | Scientific a | nd Nutrition Background             |                | SOC 20       | Sociology of Ethnic Relations             | 3.0             | SPAN 1           | Elementary Spanish                                      | 4.0     |
|                    | •                                                                                     |            | (A minimun   | n of 3 units selected from the fo   | llowing):      |              | <u>or</u>                                 |                 | SPAN 2           | Continuing Elementary Spanish                           |         |
| CISS 13            |                                                                                       | 4.0        | ANAT 10A     | Introductory Human Anatomy          | 4.0            | SOC 20H      | Sociology of Ethnic Relations             | 3.0             | SPAN 3           | Intermediate Spanish                                    | 4.0     |
|                    | Systems Security                                                                      | 10         |              | <u>or</u>                           |                |              | - Honors                                  |                 | SPAN 4           | Continuing Intermediate Spanis                          |         |
| CISS 15<br>CISS 21 | 1 57 7                                                                                | 4.0<br>4.0 | ANAT 35      | Human Anatomy                       | 5.0            | COUN 2       | College Success Strategies                | 3.0             | SPAN 5           | Advanced Spanish                                        | 4.0     |
| (133 2 1           | and Countermeasures                                                                   | 4.0        | ANAT 10B     | Introductory Human Physiology       | 4.0            | COUN 5       | Career/Life Planning                      | 3.0             | SPAN 6           | Continuing Advanced Spanish                             | 4.0     |
|                    |                                                                                       | 9.5 – 20.0 |              | <u>or</u>                           |                |              | Total Units                               | 18.0            | SPAN 11          | Spanish for the Spanish Speakin                         | ng 4.0  |
|                    | for Area of Emphasis                                                                  |            | ANAT 36      | Human Physiology                    | 5.0            |              | for Area of Emphasis                      |                 | SPAN 12          | Continuing Spanish                                      | 4.0     |
| Recomme            | nded Electives:                                                                       |            | CHEM 10      | Chemistry for Allied                | 4.0            | Plus addit   | onal units taken from any cours           | ses in clusters |                  | for the Spanish Speaking                                |         |
| BUSA 7             | Principles of Accounting - Financia                                                   | al         |              | Health Majors                       |                | 1 – 3 abov   | e for a total of at least 18 units        |                 | SPAN 25          | Spanish Literature                                      | 3.0     |
| BUSM 20            | Principles of Business                                                                | 41         |              | <u>or</u>                           |                | Activity Co  | urses                                     |                 | SPAN 53          | Conversational Spanish                                  | 3.0     |
| BUSM 60            | Human Relations in Business                                                           |            | CHEM 40      | Introduction                        | 4.0            | (A minimu    | m of two units selected from the          | e following):   | SPAN 54          | Conversational Spanish                                  | 3.0     |
| BUSO 25            | Business Communications                                                               |            |              | to General Chemistry                |                |              | ho are getting an AA degree with a        |                 | FRCH 1           | Elementary French                                       | 4.0     |
| BUSS 36            | Principles of Marketing                                                               |            | MICR 1       | Principles of Microbiology          | 5.0            |              | and Wellness are required to take a       |                 | FRCH 2           | Continuing Elementary French                            | 4.0     |
| CISB 31            | Microsoft Word                                                                        |            |              | <u>or</u>                           |                |              | courses in at least two areas of ph       |                 | FRCH 3           | Intermediate French                                     | 4.0     |
| CISB 51            | Microsoft PowerPoint                                                                  |            | MICR 22      | Microbiology                        | 4.0            |              | E-A (Aquatics); PE-F (Fitness); PE-I      |                 | FRCH 4           | Continuing Intermediate French                          | 1 4.O   |
| CISM 11            | Systems Analysis and Design                                                           |            | PHYS 1       | Physics                             | 4.0            | Sports); PE- | S (Team Sports); PE-L (Adaptive); D       | INCE (Dance).   | FRCH 5           | Advanced French                                         | 4.0     |
| R-TV 17            | Internet Radio and Podcasting                                                         |            |              | <u>or</u>                           |                |              |                                           |                 | FRCH 6           | Continuing Advanced French                              | 4.0     |
| SPCH 26            | Interpersonal Communication                                                           |            | PHYS 2AG     | General Physics                     | 4.0            |              | ate in Arts degree                        |                 | FRCH 53          | Continuing Conversational French                        | h 3.0   |
|                    | <u>or</u>                                                                             |            | PSYC 1B      | Biological Psychology               | 3.0            |              | ral Arts and Sciences                     | 5               | FRCH 54          | Advanced Conversational French                          | n 3.0   |
| SPCH 26H           | Interpersonal Communication - Ho                                                      | onors      | BIOL 1       | General Biology                     | 4.0            |              | s in Language Arts                        |                 | ITAL 1           | Elementary Italian                                      | 4.0     |
|                    |                                                                                       |            | BIOL 5       | Contemporary Health Issues          | 3.0            | Degree A     | 18987<br>is in Language Arts provides the | ctudant with    | ITAL 2           | Continuing Elementary Italian                           | 4.0     |
| Associ             | ate in Arts degree                                                                    |            |              | <u>or</u>                           |                |              | anding of the acquisition of lang         |                 | ITAL 3           | Intermediate Italian                                    | 4.0     |
|                    | ral Arts and Sciences                                                                 |            | BIOL 13      | Human Reproduction,                 | 3.0            |              | ading, writing, listening, and spe        |                 | ITAL 4           | Continuing Intermediate Italian                         |         |
|                    | s in Kinesiology and Wellnes                                                          | s          |              | Development and Aging               |                |              | nvironment. In addition to the f          |                 | ITAL 5           | Advanced Italian                                        | 4.0     |
| Degree /           | A8986                                                                                 |            | NF 10        | Nutrition for Personal Health       | 3.0            |              | equisition courses, students sele         |                 | ITAL 6           | Continuing Advanced Italian                             | 4.0     |
|                    | is in Kinesiology and Wellness provides                                               |            |              | and Wellness                        |                | options that | at will strengthen their individua        | l interests and | ITAL 52          | Conversational Italian                                  | 3.0     |
|                    | derstanding of physical education, healt                                              |            | 115.05       | <u>or</u>                           | 2.0            | goals with   | n Language Arts.                          |                 | ITAL 53          | Continuing Conversational Italia                        |         |
|                    | and the mechanics of human bodily m                                                   |            | NF 25        | Essentials of Nutrition             | 3.0            | Language     | Acquisition                               |                 | ITAL 54          | Advanced Conversational Italian                         |         |
|                    | the foundational physical education and                                               |            |              | <u>Or</u>                           | 2.0            | (minimum     | 9 units selected from the follow          | ving):          | GERM 1           | Elementary German                                       | 4.0     |
|                    | dents select courses from a scientific an<br>vioral development and diversity cluster |            | NF 25H       |                                     | 3.0            | CHLD 51      | Early Literacy                            | 3.0             | GERM 2           | Continuing Elementary German                            |         |
|                    | ducation, Movement, and Health Pi                                                     |            |              | Development and Diversity           |                |              | in Child Development                      |                 | GERM 3           | Intermediate German                                     | 4.0     |
| •                  | im of 6 units selected from the follo                                                 | autin als  |              | n of 3 units selected from the fo   |                | ENGL 1C      | Critical Thinking and Writing             | 4.0             | CHIN 1           | Elementary Chinese                                      | 4.0     |
| PE 3               |                                                                                       |            | PSYC 1A      | Introduction to Psychology          | 3.0            |              | <u>or</u>                                 |                 | CHIN 2           | Continuing Elementary Chinese                           |         |
| re o               |                                                                                       | 3.0        |              | <u>or</u>                           |                | ENGL 1CH     | Critical Thinking and Writing             | 4.0             | CHIN 3           | Intermediate Chinese<br>Continuing Intermediate Chinese | 4.0     |
| PE 5               | or<br>Advanced First Aid/CPR/                                                         | 2.0        | PSYC 1AH     | Introduction to Psychology - Honors |                |              | - Honors                                  |                 | CHIN 4           |                                                         |         |
| I L J              | Emergency Response                                                                    | 3.0        | PSYC 3       | Introduction to Research            | 4.0            |              | <u>or</u>                                 |                 | JAPN 1<br>JAPN 2 | Elementary Japanese<br>Continuing Elementary Japanese   | 4.0     |
| PE 13              |                                                                                       | 3.0        |              | Methods in Psychology               | 2.0            | PHIL 9       | Critical Thinking                         | 3.0             | JAPN 2<br>JAPN 3 | Intermediate Japanese                                   | 4.0 4.0 |
| PE 13<br>PE 17     | Introduction to Physical Education                                                    |            | PSYC 17      | Introduction to Human Services      |                | ENG: AL      | and Logical Writing                       |                 | JAPN 3<br>JAPN 4 | Continuing Intermediate Japanese                        |         |
| 1 - 1/             | incroduction to r hysical Luucation.                                                  |            | PSYC 26      | Psychology of Sexuality             | 3.0            | ENGL 81      | Language Acquisition                      | 3.0             |                  | continuing intermetiate Japanes                         | JC 7.U  |

PROGRAMS LEADING TO AN ASSOCIATE DEGREE

| JAPN 5      | Advanced Japanese                 | 4.0 |     | LIT   |
|-------------|-----------------------------------|-----|-----|-------|
| LATN 1      | Elementary Latin                  | 4.0 |     |       |
| LATN 2      | Continuing Elementary Latin       | 4.0 |     | LIT   |
| ARAB 1      | Elementary Arabic                 | 4.0 |     | LIT ( |
| ARAB 2      | Continuing Elementary Arabic      | 4.0 |     |       |
| SIGN 101    | American Sign Language 1          | 4.0 |     | LIT ( |
| SIGN 102    | American Sign Language 2          | 4.0 |     | LIT 4 |
| SIGN 103    | American Sign Language 3          | 4.0 |     | R-T\  |
| SIGN 104    | American Sign Language 4          | 4.0 |     | SPC   |
| SIGN 105    | American Sign Language 5          | 4.0 |     |       |
| LIT 3       | Multicultural American Literature |     |     |       |
| LIT 11A     | World Literature                  | 3.0 |     |       |
|             | <u>or</u>                         |     |     | As    |
| LIT 11B     | World Literature                  | 3.0 |     | in    |
| LIT 20      | African American Literature       | 3.0 |     | Em    |
| LIT 25      | Contemporary Mexican              | 3.0 |     | Deg   |
|             | American Literature               |     |     | An e  |
| CHLD 50     | Multicultural Education:          | 3.0 |     | an u  |
|             | Anti-Bias Perspective             |     |     | add   |
| JOUR 100    | Mass Media and Society            | 3.0 |     | may   |
| JOUR 107    | Race, Culture, Sex and            |     |     | Core  |
|             | Mass Media Images                 |     | 3.0 | (mii  |
| R-TV 01     | Introduction to Broadcasting      | 3.0 |     | mos   |
| R-TV 02A    | On-Air Personality                | 3.0 |     | MAT   |
|             | Development – Spanish Market      |     |     | MAT   |
| Personal Op |                                   |     |     | MAT   |
|             | 3 units selected from the followi | -   |     | MAT   |
| BUSO 25     | Business Communications           | 3.0 |     | MAT   |
| CHLD 61     | Language Arts and Art Media       | 3.0 |     | MAT   |
|             | For Young Children                |     |     | MAT   |
| ENGL 1B     | English - Introduction            | 3.0 |     |       |
|             | to Literary Types                 |     |     | MAT   |
|             | <u>or</u>                         |     |     | MAT   |
| ENGL 1BH    | English - Introduction            | 3.0 |     | ccc   |
|             | to Literary Types - Honors        |     |     | CSC   |
| ENGL 8A     | Creative Writing - Fiction        | 3.0 |     | csc   |
| ENGL 8B     | Creative Writing - Poetry         | 3.0 |     | CSC   |
| ENGL 8C     | Creative Writing – Novel          | 3.0 |     | ccc   |
| ENGL 8D     | Creative Writing – Poetry         | 3.0 |     | CSC   |
|             | Collection                        |     |     |       |
| ENGL 8E     | Creative Writing – Memoir         | 3.0 |     |       |
| ENGL 8F     | Creative Writing – Nonfiction     | 3.0 |     |       |
| ENGL 9      | Writing the Personal Journal      | 3.0 |     | Rec   |
| JOUR 101    | Beginning News Writing            | 3.0 |     | MAT   |
|             | <u>or</u>                         |     |     | MAT   |
| JOUR 102    | Intermediate News Writing         | 3.0 |     |       |
| JOUR 108    | Writing for Public Relations      | 3.0 |     | MAT   |
|             |                                   |     | 1   |       |

| LIT 1                | Early American Literature                                  | 3.0           | MATH   |
|----------------------|------------------------------------------------------------|---------------|--------|
|                      | <u>or</u>                                                  |               | MATH   |
| LIT 2                | Modern American Literature                                 | 3.0           | CHEM   |
| LIT 6A               | Survey of English Literature                               | 3.0           |        |
|                      | or                                                         |               | CHEM   |
| LIT 6B               | Survey of English Literature                               | 3.0           | CHEM   |
| LIT 40               | Children's Literature                                      | 3.0           | PHYS 4 |
| R-TV 05              | Radio-TV Newswriting 3.0                                   | 5.0           | PHYS 4 |
| SPCH 4               | Oral Interpretation of Literature                          | 3.0           | PHYS   |
| JI CIT 4             |                                                            | 18.0          | 1113.  |
|                      |                                                            | 10.0          |        |
|                      | for Area of Emphasis                                       |               | Asso   |
|                      |                                                            |               | in Li  |
|                      | ite in Arts degree                                         |               | Empł   |
|                      | ral Arts and Sciences                                      |               | Degr   |
| Emphasis             | in Mathematics                                             |               | An em  |
| Degree A             | 8989                                                       |               | unders |
|                      | is in Mathematics provides the st                          |               | wester |
|                      | inding of college level mathemat                           |               | studen |
|                      | the foundational calculus course                           |               | Core/F |
| may select           | from computer science programr                             | ning options. | MUS 2  |
| Core/Requi           | red Courses                                                |               | MUS 3  |
| (minimum             | 18 units selected from the follow                          | ving with at  | MUS 5  |
|                      | SCI courses):                                              | 2             |        |
| MATH 130             | College Algebra                                            | 4.0           | MUS 5  |
| MATH 140             | Calculus for Business                                      | 4.0           |        |
| MATH 150             | Trigonometry                                               | 3.0           | MUS 1  |
| MATH 160             | Precalculus Mathematics                                    | 4.0           | MUS 1  |
| MATH 180             | Calculus and Analytic Geometry                             | 4.0           | MUS 2  |
| MATH 180<br>MATH 181 |                                                            |               |        |
| MATH 181<br>MATH 245 | Calculus and Analytic Geometry<br>A Transition to Advanced |               | Piano  |
| MAIH 245             | A fransition to Advanced<br>Mathematics                    | 3.0           | MUS 1  |
| MATH 280             | Calculus and Analytic Geometry                             | 4.0           | MUS 1  |
|                      |                                                            |               | MUS 1  |
| MATH 285             | Linear Algebra                                             | 5.0           | Perfor |
| CC CI 440            | and Differential Equations                                 |               | (1-3 u |
| CSCI 110             | Fundamentals                                               | 3.5           | MUS 2  |
|                      | of Computer Science                                        |               | MUS 3  |
| CSCI 140             | C++ Language                                               | 4.0           | MUS 3  |
|                      | and Object Development                                     |               | MUS 3  |
| CSCI 145             | Java Language                                              | 4.0           |        |
|                      | and Object Oriented Programming                            | ng            | MUS 3  |
|                      | Total Units                                                | 18 Units      | MUS 3  |
|                      | for Area of Emphasis                                       |               | MUS 3  |
| Recommen             | ded Electives:                                             |               | MUS 3  |
| MATH 100             |                                                            | 3.0           | MUS 4  |
|                      | Survey of College Mathematics                              | 3.0           | MUS 4  |
| MATH 110             | Elementary Statistics                                      | 3.0           | MUS 4  |
|                      | <u>or</u>                                                  | 2.0           | MUS 4  |
| MAIH 110H            | Elementary Statistics - Honors                             | 3.0           | MUS 4  |
|                      |                                                            |               |        |

|                  |                                                                                                                  |                  |                           |                                                                                                                        | inate acgre              |
|------------------|------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------|
| NATH 115         | Statway II                                                                                                       | 5.0              | MUS 48                    | Men's Vocal Ensemble                                                                                                   | 2.0                      |
| NATH 120         | Finite Mathematics                                                                                               | 3.0              | MUS 49                    | Wind Ensemble                                                                                                          | 3.0                      |
| HEM 50           | General Chemistry I                                                                                              | 5.0              |                           | Total Units                                                                                                            | 18.0 - 20.0              |
|                  | <u>or</u>                                                                                                        |                  |                           | for Area of Emphasis                                                                                                   |                          |
| HEM 50H          | General Chemistry I - Honors                                                                                     | 5.0              | Stronaly F                | Recommended Electives:                                                                                                 |                          |
| HEM 51           | General Chemistry II                                                                                             | 5.0              | MUS 11B                   | Music Literature Survey                                                                                                | 3.0                      |
| 'HYS 4A          | Engineering Physics                                                                                              | 5.0              | MUS 16                    | Individual Instruction                                                                                                 | 3.0                      |
| HYS 4B           | Engineering Physics                                                                                              | 5.0              | 100510                    | (every semester)                                                                                                       | 5.0                      |
| HYS 4C           | Engineering Physics                                                                                              | 5.0              | MUS 9                     | Introduction to Music Technolo                                                                                         | gy 3.0                   |
|                  | ate in Arts degree<br>ral Arts and Sciences                                                                      |                  |                           | ate in Arts degree                                                                                                     |                          |
|                  | s in Music                                                                                                       | •                |                           | eral Arts and Sciences<br>is in Natural Sciences                                                                       | S                        |
| Degree A         | A8990                                                                                                            |                  | Degree                    |                                                                                                                        |                          |
|                  | is in Music provides the student wit                                                                             |                  |                           | sis in Natural Sciences provides the s                                                                                 | tudent with an           |
| vestern mu       | ing of music theory, harmony, and<br>usic. In addition to the foundationa<br>lect courses in piano and a perform | I Music courses, | understand<br>an apprecia | ling of living and non-living systems<br>ation of the methodologies and tools<br>ay select courses that focus on a spe | and promotes of science. |
| ore/Requ         | ired Courses (15 units)                                                                                          |                  |                           | complementary courses to strength                                                                                      |                          |
| NUS 2            | Music Theory                                                                                                     | 3.0              | focus or the              | ey may select courses that strengthe                                                                                   | n and broaden            |
| AUS 3A           | Harmony                                                                                                          | 3.0              | their overal              | I understanding of the Natural Scier                                                                                   | ices.                    |
| AUS 5A           | Musicianship                                                                                                     | 1.0              | Select a m                | ninimum of 18 units from the fol                                                                                       | llowing:                 |
|                  | - Ear Training and Sight Singing                                                                                 |                  | ASTR 5                    | Introduction to Astronomy                                                                                              | 3.0                      |
| AUS 5B           | Musicianship                                                                                                     | 1.0              |                           | or                                                                                                                     | 510                      |
|                  | - Ear Training and Sight Singing                                                                                 |                  | ASTR 5H                   | Introduction to Astronomy                                                                                              | 3.0                      |
| AUS 11A          | Music Literature Survey                                                                                          | 3.0              |                           | - Honors                                                                                                               |                          |
| AUS 16           | Individual Instruction                                                                                           | 3.0              |                           | and                                                                                                                    |                          |
| AUS 22           | Conducting                                                                                                       | 1.0              | ASTR 5L                   | Astronomical Observing                                                                                                 | 1.0                      |
|                  | nits selected from the following                                                                                 |                  | , is in se                | Laboratory                                                                                                             | 1.0                      |
|                  | -                                                                                                                |                  |                           | or                                                                                                                     |                          |
| AUS 17A          | Elementary Class Piano                                                                                           | 1.0              | ASTR 7                    | Geology of the Solar System                                                                                            | 3.0                      |
| AUS 17B          | Intermediate Class Piano                                                                                         | 1.0              |                           | and                                                                                                                    |                          |
| AUS 18           | Advanced Class Piano                                                                                             | 1.0              | ASTR 5L                   | Astronomical Observing                                                                                                 | 1.0                      |
|                  | nce Ensemble                                                                                                     |                  |                           | Laboratory                                                                                                             |                          |
| 1-3 units        | selected from the following):                                                                                    |                  |                           | <u>or</u>                                                                                                              |                          |
| AUS 27           | Chamber Winds                                                                                                    | 2.0              | ASTR 8                    | Introduction to Stars, Galaxies                                                                                        | 3.0                      |
| AUS 30           | Collegiate Chorale                                                                                               | 1.0              |                           | and the Universe                                                                                                       |                          |
| AUS 31           | Concert Choir                                                                                                    | 2.0              |                           | <u>and</u>                                                                                                             |                          |
| AUS 32           | Masterworks Chorale                                                                                              | 1.0              | ASTR 5L                   | Astronomical Observing                                                                                                 | 1.0                      |
| AUS 34           | Women's Vocal Ensemble                                                                                           | 2.0              |                           | Laboratory                                                                                                             |                          |
| AUS 36           | Concert and Community Band                                                                                       | 2.0              | BIOL 2                    | Plant & Animal Biology                                                                                                 | 4.0                      |
| AUS 38           | Ensemble                                                                                                         | 1.0              | BIOL 3                    | Ecology and Field Biology                                                                                              | 4.0                      |
| AUS 39           | Laboratory Band                                                                                                  | 2.0              | BIOL 4                    | Biology for Majors                                                                                                     | 4.0                      |
| AUS 40           | Pep Band                                                                                                         | 1.0              |                           | or                                                                                                                     |                          |
| AUS 44           | Vocal Jazz Ensemble                                                                                              | 3.0              | BIOL 4H                   | Biology for Majors - Honors                                                                                            | 4.0                      |
| AUS 45           | Chamber Singers                                                                                                  | 3.0              | BIOL 8                    | Cell and Molecular Biology                                                                                             | 4.0                      |
| AUS 45           | Mt. SAC Singers                                                                                                  | 2.0              | BIOL 20                   | Marine Biology                                                                                                         | 3.0                      |
| AUS 40<br>AUS 47 | Jazz Band                                                                                                        | 3.0              |                           | and                                                                                                                    | 5.0                      |
| 1034/            | Jazz Dallu                                                                                                       | 5.0              |                           | unu                                                                                                                    |                          |

| BIOL 21 |                                      |      |               |                                                     |                |                   |                                                   |            |             |                                                |                |
|---------|--------------------------------------|------|---------------|-----------------------------------------------------|----------------|-------------------|---------------------------------------------------|------------|-------------|------------------------------------------------|----------------|
|         | Marine Biology Lab                   | 2.0  |               |                                                     |                |                   | <u>or</u>                                         |            | SOC 15      | Child Development                              | 3.0            |
| BIOL 34 | Fundamentals of Genetics             | 3.0  |               | ate in Arts degree                                  |                | ANTH 22           | General Cultural Anthropology                     | 3.0        | Bioloav as  | it Relates to Behavior or Society              | ,              |
|         | Plant Structures, Functions          | 5.0  | in Libe       | ral Arts and Sciences                               |                | GEOG 2            | Human Geography                                   | 3.0        |             | of 3 units selected from the follo             |                |
|         | and Diversity                        | 510  | Emphasis      | in Social & Behavioral Sci                          | ences          |                   | <u>or</u>                                         |            | ANTH 1      | Biological Anthropology                        | 3.0            |
|         | •                                    | 3.0  | Degree A      | 8991                                                |                | GEOG 2H           | Human Geography - Honors                          | 3.0        | BIOL 6      | Humans and the Environment                     | 3.0            |
|         | Environment                          | 5.0  | An emphas     | is in Social & Behavioral Sciences                  | provides the   | GEOG 5            | World Regional Geography                          | 3.0        | BIOL 17     | Neurobiology and Behavior                      | 3.0            |
|         | and                                  |      | student wit   | h an understanding of statistics,                   | cultural and   |                   | or                                                |            | BIOL 34     | Fundamentals of Genetics                       | 3.0            |
|         |                                      | 1.0  | gender dive   | ersity, the development of the pe                   | rson, biology  | GEOG 30           | Geography of California                           | 3.0        | PSYC 1B     | Biological Psychology                          | 3.0            |
|         | Weather and the Atmospheric          | 1.0  | as it relates | to behavior or society, and the h                   | nistorical and |                   | or                                                |            |             | nd Political Implications on Soc               |                |
|         | Environment Laboratory               | E O  | political im  | plications on society.                              |                | GEOG 30H          | Geography of California - Honors                  | 3.0        |             |                                                | •              |
|         | Principles of Microbiology           | 5.0  | Foundation    | a (a minimum of 6-7 units select                    | ed from the    | JOUR 100          | Mass Media and Society                            | 3.0        |             | n of 3 units selected from the fo              |                |
|         | <u>Or</u><br>Misseliala au           | 4.0  | following):   | -                                                   |                | JOUR 107          | Race, Culture, Sex                                | 3.0        | GEOG 8      | The Urban World                                | 3.0            |
|         | Microbiology                         | 4.0  | ANTH 1        | Biological Anthropology                             | 3.0            |                   | and Mass Media Images                             |            | HIST 1      | History of the United States                   | 3.0            |
|         | General Chemistry                    | 5.0  | ANTEL         |                                                     | 5.0            | POLI 25           | Politics of the Mexican American                  | 3.0        |             | <u>or</u>                                      | 2.0            |
|         | <u>or</u>                            |      | ANTH 1H       | <u>or</u><br>Biological Anthropology                | 3.0            | POLI 35           | African American Politics                         | 3.0        | HIST 7      | History of the United States                   | 3.0            |
|         | General Chemistry - Honors           | 5.0  |               | - Honors                                            | 5.0            | SPCH 7            | Intercultural Communication                       | 3.0        | 11167 711   | <u>Or</u>                                      |                |
|         | General Chemistry II                 | 5.0  | DOLL 1        | Political Science                                   | 2.0            |                   | or                                                |            | HIST 7H     | History of the United States                   | 3.0            |
|         | . ,                                  | 5.0  | POLI 1        |                                                     | 3.0            | SPCH 7H           | Intercultural Communication                       | 3.0        |             | - Honors                                       |                |
|         | Organic Chemistry                    | 5.0  | DOL 111       | <u>Oľ</u><br>Delitical Science - Honova             | 2.0            | 5                 | - Honors                                          | 510        | LUCT O      | <u>or</u>                                      | 2.0            |
| CHEM 81 | Organic Chemistry                    | 5.0  | POLI 1H       | Political Science – Honors                          | 3.0            | HIST 36           | Women in American History                         | 3.0        | HIST 8      | History of the United States                   | 3.0            |
| GEOG 1  | Elements of Physical Geography       | 3.0  | PSYC 1A       | Introduction to Psychology                          | 3.0            |                   | - Beyond the Stereotypes                          |            |             | <u>or</u>                                      |                |
|         | or                                   |      | DCVC 1AU      | <u>Or</u>                                           | - 2.0          | BIOL 15           | Human Sexuality                                   | 3.0        | HIST 8H     | History of the United States                   | 3.0            |
| GEOG 1H | Elements of Physical Geography       | 3.0  | PSYC 1AH      | Introduction to Psychology - Honor                  |                | 0.02.10           | <u>or</u>                                         | 510        | LUCT 40     | - Honors                                       | 2.0            |
|         | - Honors                             |      | SOC 1         | Sociology                                           | 3.0            | BIOL 15H          | Human Sexuality - Honors                          | 3.0        | HIST 10     | History of Asia                                | 3.0            |
|         | and                                  |      |               | <u>or</u>                                           |                | PSYC 25           | The Psychology of Women                           | 3.0        |             | <u>or</u>                                      |                |
| GEOG 1L | Physical Geography Laboratory        | 1.0  | SOC 1H        | Sociology – Honors                                  | 3.0            | PSYC 26           | Psychology of Sexuality                           | 3.0        | HIST 11     | History of Asia                                | 3.0            |
|         | Physical Geology                     | 4.0  | BUSC 1A       | Principles of Economics                             | 3.0            | R-TV 01           | Introduction to Broadcasting                      | 3.0        |             | <u>or</u>                                      |                |
|         | Historical Geology                   | 4.0  |               | Macroeconomics                                      |                | SOC 5             | Introduction to Criminology                       | 3.0        | HIST 16     | The Wild West                                  | 3.0            |
|         | Earth Science                        | 3.0  | DUCCIAL       | <u>or</u>                                           | 2.0            | SOC 14            | Marriage and the Family                           | 3.0        |             | - A History, 1800-1890                         | 2.0            |
|         | or                                   | 5.0  | BUSC 1AH      | Principles of Economics                             | 3.0            |                   | or                                                | 510        | HIST 30     | History of the African American                | 3.0            |
|         | Earth Science – Honors               | 3.0  | DUCC 1D       | - Macroeconomics - Honors                           | 2.0            | SOC 14H           | Marriage and the Family - Honor                   | 53.0       | LUCT 21     | <u>Or</u>                                      | 2.0            |
|         | and                                  | 5.0  | BUSC 1B       | Principles of Economics                             | 3.0            | SOC 20            | Sociology of Ethnic Relations                     | 3.0        | HIST 31     | History of the African American                | 3.0            |
|         | Earth Science Laboratory             | 1.0  |               | - Microeconomics                                    |                |                   | <u>or</u>                                         |            |             | <u>Or</u>                                      | 2.0            |
|         |                                      | 3.0  |               | <u>Or</u><br>Driverin lass of <b>F</b> and a series | 2.0            | SOC 20H           | Sociology of Ethnic Relations                     | 3.0        | HIST 35     | History of Africa                              | 3.0            |
|         | • • • •                              | 5.0  | BUSC 1 BH     |                                                     | 3.0            |                   | - Honors                                          | 510        | HIST 40     | History of the Mexican American                | 1 3.0          |
|         | and<br>Intro to Oceanomy have Hanner | 2.0  | LUCT 1        | - Microeconomics - Honors                           | 2.0            | Develonme         | nt of the Person                                  |            |             | <u>Or</u>                                      |                |
|         | Intro. to Oceanography - Honors      | 3.0  | HIST 1        | History of the United States                        | 3.0            |                   | n of 3 units selected from the fol                | lowing).   | HIST 44     | History of Native Americans                    | l-4            |
|         | and                                  | 1.0  | 11167 7       | <u>or</u>                                           | 2.0            | BIOL 5            | Contemporary Health Issues                        | 3.0        | POLI 9      | Introduction to International Re               | lations 3.0    |
|         | Introduction to Oceanography         | 1.0  | HIST 7        | History of the United States                        | 3.0            | BIOL 3<br>BIOL 13 | Human Reproduction,                               | 3.0        | DOLLOF      | <u>Or</u><br>Delition of the Manieron American |                |
|         | Laboratory                           |      |               | <u>Or</u>                                           |                | DIUL 15           | Development and Aging                             | 5.0        | POLI 25     | Politics of the Mexican American               | 1 3.0          |
|         | Physical Science                     | 4.0  | HIST 7H       | History of the United States                        | 3.0            |                   |                                                   | 2.0        | DOLLAS      | <u>Or</u>                                      | 2.0            |
|         | and                                  |      |               | - Honors                                            |                | CHLD 1            | Child, Family and Community                       | 3.0        | POLI 35     | African American Politics                      | 3.0            |
|         | Physical Science Laboratory          | 1.0  |               | the following:                                      |                | CHLD 10           | Child Growth and Development                      | 3.0        | PSYC 17     | Introduction to Human Services                 |                |
|         | General Physics                      | 4.0  | MATH 110      | Elementary Statistics                               | 3.0            |                   | <u>Or</u><br>Child Crowth and Davalanment         | 2.0        |             |                                                | 18.0 - 19.0    |
|         | General Physics                      | 4.0  |               | <u>or</u>                                           |                |                   | Child Growth and Development                      | 5.0        | C. I        | for Area of Emphasis                           | 101            |
|         | Engineering Physics                  | 5.0  |               | Elementary Statistics – Honors                      |                | DCVC 14           | - Honors                                          | 2.0        |             | ho decide to major in the Social a             |                |
|         | Engineering Physics                  | 5.0  | PSYC 10       | Statistics for the Behavioral Science               | s 4.0          | PSYC 14           | Developmental Psychology                          | 3.0        |             | strongly encouraged to gain a st               |                |
| PHYS 4C | Engineering Physics                  | 5.0  | Cultural &    | Gender Diversity                                    |                | PSYC 19           | Abnormal Psychology                               | 3.0        |             | ckground by taking PSYC 3 Introd               |                |
| ENGR 40 | Statics                              | 3.0  | (a minimur    | n of 3 units selected from the fo                   | llowing):      | SOC 2             | Sociology                                         | 3.0        |             | ethods in Psychology (4.0 units) o             |                |
| ENGR 41 | Dynamics                             | 3.0  | ANTH 30       | The Native American                                 | 3.0            | 0000              | <u>Or</u><br>Cociolomy Honora                     | 2.0        | Information | Resources and Research Methods                 | ; (3.0 units). |
|         | ,                                    | 18.0 | ANTH 5        | Principles of Cultural Anthropology                 | 3.0            | SOC 2H<br>SOC 4   | Sociology - Honors<br>Introduction to Gerontology | 3.0<br>3.0 |             |                                                |                |
|         |                                      |      |               |                                                     |                |                   |                                                   |            |             |                                                |                |

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# Programs Leading to an Associate degree

| Other recon | nmended 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                     | 3.0 |
|             | and Development                         |     |
| 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                    | 3.0 |
|             | American Literature                     |     |
| LIT 3       | Multicultural American Literature       | 3.0 |
| PSYC 17     | Introduction to Human Services          | 3.0 |
| PSYC 19     | Abnormal Psychology                     | 3.0 |
| PSYC 33     | Psychology for Effective Living         | 3.0 |
| SPCH 26     | Interpersonal Communication             | 3.0 |
|             | <u>or</u>                               |     |
| SPCH 26H    | Interpersonal Communication<br>- Honors | 3.0 |
| SL 1        | Service Learning/Seminar                | 6.0 |
|             | for Health Occupations                  |     |
|             | <u>or</u>                               |     |
| SL 2        | Linked Service Learning                 | 1.0 |
|             | <u>or</u>                               |     |
| SL 3        | Service Learning/Seminar                | 3.0 |
|             | in Community Involvement                |     |
|             | <u>or</u>                               |     |
| SL 4        | Service Learning and Community          | 1.0 |
|             |                                         |     |



# section nine

Transferring to California Colleges and Universities

#### **PROGRAMS OF STUDY LEADING TO TRANSFER**

Mt. San Antonio College offers lower division transfer courses to meet the requirements for most baccalaureate majors offered by accredited colleges and universities in the United States. Students should meet with a counselor or an educational advisor in the Student Services Center for information about transfer courses in their major. It is advised that the student visit the Counseling 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.

#### **Liberal Arts**

Art Art History Classics **Comparative Cultures** Creative Studies Drama/Theater Arts English and Literature Foreign Languages and Literatures Humanities Liberal Studies Linguistics Medieval Studies Museum Studies Music Musicology Philosophy **Reliaious Studies** Renaissance Studies Rhetoric

# Social Sciences

Anthropology Behavioral Sciences Child Development Cultural Geography Economics Ethnic and Area Studies Asian Studies Chicana/Chicano Studies Comparative Cultures **European Studies** Latin American Studies Middle Fastern Studies Native American Studies Third World Studies History Human Development Law and Society Legal Studies Peace and Conflict Studies Political Science Psychology

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

#### **Natural Sciences & Math**

LIFE SCIENCES Biological Sciences Animal Physiology Biochemistry Biomedical Sciences Botany Ecology Environmental Biology Genetics Integrative Biology Marine Biology Microbiology Molecular Biology Zoology Health Sciences PHYSICAL SCIENCES Astrophysics Atmospheric Sciences Chemistry Earth Science Geophysics Geoloav Oceanography Physical Geography Physical Sciences Physics Soil/Water Sciences MATH Mathematics Statistics **Ouantitative Methods** Agriculture/Natural **Resources/Environment** Agricultural Management Aariculture Animal Science **Bio-resources** Conservation Entomology Environmental Biology/ Toxicology Fisheries **Environmental Science/Studies** Food Science Forestry Natural Resources Management Park Management Petroleum Studies Plant Biology 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

Photo – Journalism

Public – Relations

Photography

Services

Counseling

Criminal Justice

Motion Picture – Television

Radio – Television Services

Communicative Disorders

Deaf Studies Dental Hygiene (UCSF) Fire Protection Administration Government/Public Service Health Care Management Human Services Liberal Studies Library Science Medical Lab Technology Nursing Nutrition Occupational Therapy Physical Education Public Health Radiologic Technology Recreation Administration Rehabilitation Social Work

#### THE CALIFORNIA STATE UNIVERSITY

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

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

*The above information is from the 2011-2012 California State University (CSU) undergraduate application.* 



#### **CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2011-12**

#### The requirements listed below are for the 2011-2012 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) 274-4293.

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

minimum grade of "C." Students who have attended other colleges are urged to consult with a counselor or educational advisor for advice on satisfying General Education-Breadth Requirements.

Students beginning Fall 2011 must follow 2011-2012 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. 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

| Area A                                               |                                                                                      | +CHEM 50        | General Chemistry I                          | +ANTH 1L        | Biological Anthropology Laboratory        | Area C               |                                              |
|------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------|----------------------------------------------|-----------------|-------------------------------------------|----------------------|----------------------------------------------|
| The English Language and Critical Thinking (9 units) |                                                                                      | +CHEM 50H       | General Chemistry I – Honors                 | +BIOL 1         | General Biology                           | Arts, Literatu       | re, Philosophy and                           |
| Select <u>one</u> course from each group:            |                                                                                      | +CHEM 51        | General Chemistry II                         | +BIOL 2         | Plant and Animal Biology                  |                      | juages ( <i>9 units</i> )                    |
| A-1: Oral Communication:                             |                                                                                      | GEOG 1          | Elements of Physical Geography               | +BIOL 3         | Ecology and Field Biology                 |                      | ourses, with at least <u>one</u> course from |
| SPCH 1A                                              | Public Speaking                                                                      | GEOG 1H         | Elements of Physical Geography – Honors      | +BIOL 4         | Biology for Majors                        | "Arts" and <u>on</u> | <u>e</u> course from "Humanities":           |
| SPCH 1AH                                             | Public Speaking – Honors                                                             | +GEOG 1L        | Physical Geography Laboratory                | +BIOL 4H        | Biology for Majors – Honors               | C-1: Arts            |                                              |
| SPCH 2                                               | Fundamentals of Communication                                                        | +GEOG 1LH       | Physical Geography Laboratory – Honors       | BIOL 6          | Humans and the Environment                | AHIS 1               | Understanding the Visual Arts, <b>or</b>     |
| SPCH 8                                               | Professional and Organizational Speaking                                             | +GEOL 1         | Physical Geology                             | +BIOL 6L        | Humans and the Environment Laboratory     | ARTB 1               | Understanding the Visual Arts                |
| SPCH 8H                                              | Professional and Organizational Speaking                                             | GEOL 7          | Geology of California                        | +BIOL 8         | Cell and Molecular Biology                | AHIS 1H              | Understanding the Visual Arts – Honors       |
|                                                      | - Honors                                                                             | GEOL 8          | Earth Science                                | BIOL 17         | Neurobiology and Behavior                 | AHIS 3               | History of Women and Gender in Art           |
|                                                      | Communication:                                                                       | GEOL 8H         | Earth Science – Honors                       | BIOL 20         | Marine Biology                            | AHIS 3H              | History of Women and Gender in Art –         |
| ENGL 1A                                              | Freshman Composition                                                                 | +GEOL 8L        | Earth Science Laboratory                     | +BIOL 21        | Marine Biology Laboratory                 |                      | Honors                                       |
| ENGL 1AH                                             | Freshman Composition – Honors                                                        | GEOL 9          | Environmental Geology                        | BIOL 34         | Fundamentals of Genetics                  | AHIS 4               | History of Western Art: Prehistoric          |
| A-3: Critical                                        |                                                                                      | GEOL 10         | Natural Disasters                            | +BIOL 34L       | Fundamentals of Genetics Laboratory       |                      | Through Gothic                               |
| ENGL 1C                                              | Critical Thinking and Writing                                                        | METO 3          | Weather and the Atmospheric Environment      | +MICR 1         | Principles of Microbiology                | AHIS 4H              | History of Western Art: Prehistoric          |
| ENGL 1CH                                             | Critical Thinking and Writing – Honors                                               | +METO 3L        | Weather and Atmospheric                      | +MICR 22        | Microbiology                              |                      | Through Gothic – Honors                      |
| PHIL 3                                               | Logic in Practice                                                                    |                 | Environment Laboratory                       | PSYC 1B         | Biological Psychology                     | AHIS 5               | History of Western Art: Renaissance          |
| PHIL 3H                                              | Logic in Practice – Honors                                                           | OCEA 10         | Introduction to Oceanography                 | B-3: Lab Scie   | nce                                       |                      | Through Modern                               |
| PHIL 8<br>PHIL 9                                     | Critical Thinking                                                                    | OCEA 10H        | Introduction to Oceanography – Honors        | This requirem   | ent is met by taking ONE of the           | AHIS 5H              | History of Western Art: Renaissance          |
| PHIL 9<br>PSYC 5                                     | Critical Thinking and Logical Writing<br>Psychology of Reasoning and Problem Solving | +0CEA 10L       | Introduction to Oceanography Laboratory      | courses above   | indicated by a " $+$ " sign. Lab must be  |                      | Through Modern — Honors                      |
| SPCH 1B                                              | Intermediate Public Speaking                                                         | +PHSC 3         | Energy Science                               |                 | ng section to the lecture course taken.   | AHIS 6               | History of Modern Art                        |
| SPCH 1D                                              | Argumentation and Debate                                                             | PHSC 7          | Physical Science                             | B-4: Mathem     |                                           | AHIS 6H              | History of Modern Art – Honors               |
| SPCH 20H                                             | Argumentation and Debate – Honors                                                    | +PHSC 7L        | Physical Science Laboratory                  | Select at least | one course from the following list:       | AHIS 9               | History of Asian Art                         |
|                                                      | Argumentation and Debate Thomois                                                     | +PHYS 1         | Physics                                      | BUSC 17         | Applied Business Statistics               | AHIS 10              | A History of Greek and Roman Art             |
| Area B                                               |                                                                                      | +PHYS 2AG       | General Physics                              | MATH 100        | Survey of College Mathematics             |                      | and Architecture                             |
|                                                      | Universe & Life (9 units minimum):                                                   | +PHYS 2BG       | General Physics                              | MATH 110        | Elementary Statistics                     | AHIS 11              | History of African, Oceanic and Native       |
| Select <u>one</u> cou                                | rse from each group. Also, one lab (+)                                               | +PHYS 4A        | Engineering Physics                          | MATH 110H       | Elementary Statistics – Honors            |                      | American Art                                 |
|                                                      | e included in <u>one</u> of the science groups.                                      | +PHYS 4B        | Engineering Physics                          | MATH 115        | Statway 11                                | AHIS 12              | History of Precolumbian Art                  |
| B-1: Physical                                        |                                                                                      | +PHYS 4C        | Engineering Physics                          | MATH 120        | Finite Mathematics                        | AHIS 12H             | History of Precolumbian Art – Honors         |
|                                                      | one course from the following list:                                                  | B-2: Life Scie  | ence                                         | MATH 130        | College Algebra                           | ARCH 31              | World Architecture I                         |
| ASTR 5<br>ASTR 5H                                    | Introduction to Astronomy                                                            | Select at least | t <u>one</u> course from the following list: | MATH 140        | Calculus for Business                     | ARCH 32              | World Architecture II                        |
| +ASTR 5H                                             | Introduction to Astronomy — Honors<br>Astronomical Observing Laboratory              | AGOR 1          | Horticultural Science                        | MATH 150        | Trigonometry                              | ARTB 14              | Basic Studio Arts                            |
| ASTR 3L                                              | Geology of the Solar System                                                          | +ANAT 10A       | Introductory Human Anatomy                   | MATH 160        | Precalculus Mathematics                   | ARTD 15A             | Drawing: Beginning                           |
| ASTR 8                                               | Introduction to Stars, Galaxies and                                                  | +ANAT 10B       | Introductory Human Physiology                | MATH 180        | Calculus and Analytic Geometry            | ARTD 20              | Design: Two Dimensional                      |
| ASINO                                                | the Universe                                                                         | +ANAT 35        | Human Anatomy                                | MATH 181        | Calculus and Analytic Geometry            | ARTD 25A             | Beginning Painting I                         |
| +CHEM 10                                             | Chemistry for Allied Health Majors                                                   | +ANAT 36        | Human Physiology                             | MATH 280        | Calculus and Analytic Geometry            | ARTG 20              | Art, Artists and Society                     |
| +CHEM 20                                             | Introductory Organic and Biochemistry                                                | ANTH 1          | Biological Anthropology                      | MATH 285        | Linear Algebra and Differential Equations | ARTS 22              | Design: Three-Dimensional                    |
| +CHEM 40                                             | Introduction to General Chemistry                                                    | ANTH 1H         | Biological Anthropology – Honors             | PSYC 10         | Statistics for the Behavioral Sciences    | ARTS 30A             | Ceramics: Beginning I                        |
|                                                      |                                                                                      |                 | 5 1 1 5 1                                    |                 |                                           | ARTS 40A             | Sculpture: Beginning                         |

# Transferring to California Colleges and Universities

|                        |                                             | CALIF                 | ORNIA STATE UNIVERSITY GENER           | AL EDUCAT      | ION REOUIREMENTS 2011-12                 |                        |                                            |
|------------------------|---------------------------------------------|-----------------------|----------------------------------------|----------------|------------------------------------------|------------------------|--------------------------------------------|
| DN-T 20                | History and Appreciation of Dance           | * HIST 19             | History of Mexico                      | * POLI 7       | Political Theory II — Early Modern       | BUSC 1B                | Principles of Economics – Microeconomics   |
| ID 14                  | History of Furniture and Decorative Arts    | * HIST 30             | History of the African American        |                | to Contemporary                          | BUSC 1BH               | Principles of Economics –                  |
| MUS 7                  | Fundamentals of Music                       | * HIST 31             | History of the African American        | SIGN 101       | American Sign Language 1                 | bose ibii              | Microeconomics – Honors                    |
| MUS 11A                | Music Literature Survey                     | * HIST 35             | History of Africa                      | SIGN 102       | American Sign Language 2                 | JOUR 100               | Mass Media and Society                     |
| MUS 11B                | Music Literature Survey                     | * HIST 36             | Women in American History              | SIGN 102       | American Sign Language 3                 |                        | -                                          |
| MUS 112                | History of Jazz                             | * HIST 39             | California History                     | SIGN 105       | American Sign Language 4                 | D-3: Ethnic S          |                                            |
| MUS 12<br>MUS 13       | Introduction to Music Appreciation          | * HIST 40             | History of the Mexican American        | SIGN 202       | American Deaf Culture                    | * HIST 30              | History of the African American            |
| MUS 13H                | Introduction to Music Appreciation – Honors | HUMA 1                | The Humanities                         | SPAN 1         | Elementary Spanish                       | * HIST 31              | History of the African American            |
| MUS 13H<br>MUS 14A     | World Music                                 | ITAL 1                | Elementary Italian                     | SPAN 2         | Continuing Elementary Spanish            | * HIST 40              | History of the Mexican American            |
| MUS 14A<br>MUS 14B     | American Folk Music                         | ITAL 2                | Continuing Elementary Italian          | SPAN 3         | Intermediate Spanish                     | * HIST 44              | History of Native Americans                |
| MUS 14B<br>MUS 15      | Rock Music History and Appreciation         | ITAL 2                | Intermediate Italian                   | SPAN 4         | Continuing Intermediate Spanish          | JOUR 107               | Race, Culture, Sex, and Mass Media Images  |
|                        | History of Photography                      | ITAL 3                | Continuing Intermediate Italian        | SPAN 5         | Advanced Spanish                         | * POLI 25              | Politics of the Mexican American           |
| PHOT 15                | , , ,                                       | ITAL 4                | Advanced Italian                       | SPAN 6         | Continuing Advanced Spanish              | * POLI 35              | African American Politics                  |
| SPCH 4                 | Performance of Literature                   | ITAL 5                | Continuing Advanced Italian            | SPAN 11        | Spanish for the Spanish Speaking         | * SOC 20               | Sociology of Ethnic Relations              |
| THTR 9                 | Introduction to Theatre Arts                | ITAL 60               | Italian Culture Through Cinema         | SPAN 12        | Continuing Spanish for the Spanish       | * SOC 20H              | Sociology of Ethnic Relations — Honors     |
| THTR 10                | History of Theatre Arts                     | JAPN 1                | Elementary Japanese                    |                | Speaking                                 | D-4: Gender            | Studies                                    |
| THTR 11                | Principles of Acting I                      | JAPN 1<br>JAPN 2      | Continuing Elementary Japanese         | SPAN 25        | Spanish Literature                       | * HIST 36              | Women in American History                  |
| C-2: Humani            | ties                                        | JAPN 2<br>JAPN 3      | Intermediate Japanese                  | JIAN 25        | Spanish Literature                       | * PSYC 25              | The Psychology of Women                    |
| ARAB 1                 | Elementary Arabic                           | JAPN 4                | Continuing Intermediate Japanese       | Area D         |                                          |                        | , ,,                                       |
| ARAB 2                 | Continuing Elementary Arabic                | JAPN 5                | Advanced Japanese                      | Social, Politi | cal, and Economic Institutions and       | D-5: Geograp           |                                            |
| CHIN 1                 | Elementary Chinese                          | LATN 1                | Elementary Latin                       |                | storical Background                      | GEOG 2                 | Human Geography                            |
| CHIN 2                 | Continuing Elementary Chinese               | LATN 2                | Continuing Elementary Latin            |                | rses: Minimum 9 units with courses from  | GEOG 2H                | Human Geography — Honors                   |
| CHIN 3                 | Intermediate Chinese                        | LIT 1                 | Early American Literature              | at least two a | lisciplines (D0 – D9):                   | GEOG 5                 | World Regional Geography                   |
| CHIN 4                 | Continuing Intermediate Chinese             | LIT 2                 | Modern American Literature             | D-0: Sociolog  | gy & Criminology                         | GEOG 8                 | The Urban World                            |
| ENGL 1B                | English — Intro to Literary Types           | LIT 2                 | Multicultural American Literature      | CHLD 1         | Child, Family, School and Community      | GEOG 30                | Geography of California                    |
| ENGL 1BH               | English – Intro to Literary Types – Honors  | LIT 6A                | Survey of English Literature           | SOC 1          | Sociology                                | D-6: History           |                                            |
| FRCH 1                 | Elementary French                           | LIT 6B                | Survey of English Literature           | SOC 1H         | Sociology – Honors                       | * HIST 1               | History of the United States               |
| FRCH 2                 | Continuing Elementary French                | LIT 10                | Survey of Shakespeare                  | SOC 2          | Sociology                                | * HIST 3               | World History: Prehistoric to Early Modern |
| FRCH 3                 | Intermediate French                         | LIT 10                | World Literature to 1650               | SOC 2H         | Sociology – Honors                       | * HIST 3H              | World History: Prehistoric to Early Modern |
| FRCH 4                 | Continuing Intermediate French              | LIT 11R               | World Literature from 1650             | SOC 211        | Introduction to Gerontology              |                        | – Honors                                   |
| FRCH 5                 | Advanced French                             | LIT 14                | Introduction to Modern Poetry          | SOC 5          | Introduction to Criminology              | * HIST 4               | World History: Early Modern to the         |
| FRCH 6                 | Continuing Advanced French                  | LIT 14                | Introduction to Cinema                 | SOC 5H         | Introduction to Criminology – Honors     |                        | Present                                    |
| FRCH 60                | French Culture Through Cinema               | LIT 20                | African American Literature            | SOC 14         | Marriage and the Family                  | * HIST 4H              | World History: Early Modern to the         |
| GERM 1                 | Elementary German                           | LIT 25                | Contemporary Mexican American Lit      | SOC 14         | Marriage and the Family – Honors         |                        | Present – Honors                           |
| GERM 2                 | Continuing Elementary German                | LIT 36                | Introduction to Mythology              | * SOC 15       | Child Development                        | * HIST 7               | History of the United States               |
| GERM 3                 | Intermediate German                         | LIT 30                | Children's Literature                  | * SOC 15       | Sociology of Ethnic Relations            | * HIST 7H              | History of the United States – Honors      |
| * HIST 1               | History of the United States                | LIT 40<br>LIT 46      | The Bible as Literature: Old Testament | * SOC 20       | Sociology of Ethnic Relations – Honors   | * HIST 8               | History of the United States               |
| * HIST 3               | World History: Prehistoric to Early Modern  | LIT 40                | The Bible as Literature: New Testament |                |                                          | * HIST 8H              | History of the United States – Honors      |
| * HIST 3H              | World History: Prehistoric to Early Modern  | PHIL 5                | Introduction to Philosophy             | -              | oology & Archeology                      | * HIST 10              | History of Asia                            |
|                        | - Honors                                    | PHIL 5H               | Introduction to Philosophy – Honors    | ANTH 3         | Archeology                               | * HIST 11              | History of Asia                            |
| * HIST 4               | World History: Early Modern to the          | PHIL 12               | Ethics                                 | ANTH 5         | Principles of Cultural Anthropology      | * HIST 19              | History of Mexico                          |
|                        | Present                                     | PHIL 12               | Ethics – Honors                        | ANTH 22        | General Cultural Anthropology            | * HIST 30              | History of the African American            |
| * HIST 4H              | World History: Early Modern to the          | PHIL 15               | Major World Religions                  | ANTH 30        | The Native American                      | * HIST 31              | History of the African American            |
|                        | Present – Honors                            | PHIL 15               | Major World Religions — Honors         | D-2: Econom    | ics                                      | * HIST 35              | History of Africa                          |
| * HIST 7               | History of the United States                | PHIL 13H              | History of Western Philosophy          | AGAG 1         | Food Production, Land Use and Politics – | * HIST 36              | Women in American History                  |
| * HIST 7H              | History of the United States – Honors       | PHIL 20A              | History of Western Philosophy – Honors |                | A Global Perspective                     | * HIST 39              | California History                         |
| * HIST 8               | History of the United States – Honors       | PHIL 20AH             | History of Western Philosophy – Honors | AGFR 20        | Conservation of Natural Resources        | * HIST 40              | History of the Mexican American            |
| * HIST 8H              | History of the United States – Honors       | PHIL 20B<br>PHIL 20BH | , , ,                                  | BUSC 1A        | Principles of Economics – Macroeconomics | * HIST 40<br>* HIST 44 | History of Native Americans                |
| * HIST 10              | History of Asia                             | * POLI 5              | Political Theory I – Ancient to Modern | BUSC 1A        | Principles of Economics – Macheeonomics  |                        | HISTORY OF MALIVE ATHEIICANS               |
| * HIST 10<br>* HIST 11 | History of Asia                             | FULID                 | ronucal meory i – Ancient to Mouern    |                | Macroeconomics – Honors                  |                        |                                            |
|                        |                                             |                       |                                        |                |                                          |                        |                                            |

# Transferring to California Colleges and Universities

| CALIFORNIA STATE UNIVERSITY GENE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RAL EDUCATION REQUIREMENTS 2011-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 2-7: Interdisciplinary Social or Behavioral<br>(CHD 10)       Child Growth and Development<br>(CHD 10)       POL1 7       Political Theory II – Early Modern<br>to Contemporary         2-7: Interdisciplinary Social or Behavioral<br>(CHD 10)       Child Growth and Development – Honors<br>SPCH 7/1       Intercultural Communication<br>SPCH 7/1       POL1 7       Political Theory II – Early Modern<br>to Contemporary         SPCH 7/1       Intercultural Communication<br>SPCH 30       Interpersonal Communication – Honors<br>SPCH 30       POL1 9       Introduction to Psychology<br>POL1 3       Politics Science, Overnment, and<br>Legal Institutions         POL1 1       Political Science – Honors<br>POL1 2       Political Science – Honors<br>POL1 3       PSYC 1A       Introduction to Psychology<br>PSYC 13H       Introduction to Child Psychology<br>PSYC 14H       Introduction to Psychology<br>PSYC 14H | RAL EDUCATION REQUIREMENTS 2011-12         Area E         Lifelong Understanding & Self Development (3 units)         Select at least <u>one</u> course.         AD 3       Chemical Dependency: Intervention,<br>Treatment and Recovery         BIOL 5       Contemporary Health Issues         BIOL 13       Human Reproduction, Development<br>and Aging         BIOL 15       Human Sexuality         BIOL 15       Human Sexuality – Honors         * CHLD 10       Child Growth and Development – Honors         COUN 5       Career/Life Planning         FCS 41       Life Management         LEAD 55       Exploring Leadership         NF 10       Nutrition for Personal Health and<br>Wellness         NF 25       Essentials of Nutrition         NF 25       Essentials of Nutrition – Honors         NF 28       Cultural and Ethnic Foods         PE 34       Fitness for Living         * PSYC 14       Developmental Psychology         * PSYC 25       The Psychology of Women         PSYC 26       Psychology for Effective Living         * SOC 15       Child Development         * SPCH 26       Interpersonal Communication         * SPCH 26H       Interpersonal Communication – Honors <td><ol> <li>Notes         <ol> <li>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 complete with grades of "C" or better.</li> <li>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 44 (Writing Proficiency Examination).</li> <li>Courses on this list have been approved by the CS Office of the Chancellor for Fall 2011 and beyond. a course was completed prior to approval, it cannuble certified for CSU General Education—Breadth requirements.</li> <li>Some majors at CSU do not allow double counting of major preparation courses and general education courses. Students are advised to consult wit a counselor or advisor to determine if courses can be double counted.</li> <li>Some majors require specific general education courses. Students planning to transfer are advised to plan their schedules carefully in order to maintain progress.</li> <li>Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.</li> </ol> </li></ol></td> | <ol> <li>Notes         <ol> <li>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 complete with grades of "C" or better.</li> <li>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 44 (Writing Proficiency Examination).</li> <li>Courses on this list have been approved by the CS Office of the Chancellor for Fall 2011 and beyond. a course was completed prior to approval, it cannuble certified for CSU General Education—Breadth requirements.</li> <li>Some majors at CSU do not allow double counting of major preparation courses and general education courses. Students are advised to consult wit a counselor or advisor to determine if courses can be double counted.</li> <li>Some majors require specific general education courses. Students planning to transfer are advised to plan their schedules carefully in order to maintain progress.</li> <li>Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.</li> </ol> </li></ol> |

#### THE UNIVERSITY OF CALIFORNIA

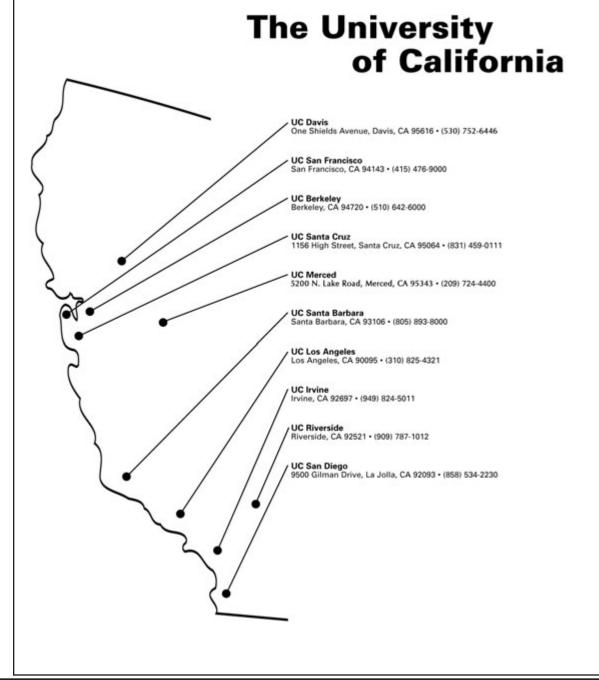
#### **UC Minimum Admission Requirements**

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

- If you were eligible for admission to the University when you graduated from high school – meaning you satisfied the Subject, Scholarship, and Examination Requirements, or were identified by the University during your senior year in high school as eligible in the Local Context – you are eligible for transfer if you have a 2.0 GPA in your transferable coursework.
- 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.
- 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; <u>and</u>
  - B. Complete the following course pattern requirement, earning a grade of "C" or better in each course:
    - two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
    - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; <u>and</u>
    - four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

Students who satisfy the Intersegmental General Education Transfer Curriculum [IGETC] prior to transferring to UC may satisfy Option 3B of the transfer admission requirements.



#### **INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) 2011-12**

#### The requirements listed below are for the 2011-2012 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) 274-4293.

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 2011 must follow 2011-2012 IGETC requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling Center.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | INTERSEGMENTAL GENERAL EDUCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TRANSFER CURRICULUM (IGETC) 2011-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Area 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Biological Science:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 ANTH 22         General Cultural Anthropology, BUSC 1A       Principles of Economics: Macroeconomics         BUSC 1AH       Principles of Economics: Macroeconomics         BUSC 1B       Principles of Economics: Microeconomics         BUSC 1BH       Principles of Economics: Microeconomics         BUSC 1BH       Principles of Economics: Microeconomics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ANAT 10AIntroductory Human AnatomyANAT 10BIntroductory Human PhysiologyANAT 35Human AnatomyANAT 36Human PhysiologyANTH 1Biological AnthropologyANTH 1HBiological Anthropology – HonorsANTH 1LBiological Anthropology LaboratoryBIOL 1General BiologyBIOL 2Plant and Animal BiologyBIOL 3Ecology and Field BiologyBIOL 4Biology for Majors                                                                                                                                                                                                                 | BIOL 4HBiology for Majors – HonorsBIOL 6Humans and the EnvironmentBIOL 6LHumans and the Environment LaboratoryBIOL 8Cell and Molecular BiologyBIOL 20Marine BiologyBIOL 21Marine Biology LaboratoryBIOL 34Fundamentals of GeneticsMICR 12MicrobiologyMICR 22MicrobiologyPSYC 1BBiological Psychology                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Microeconomics – Honors<br>GEOG 2 Human Geography<br>GEOG 2H Human Geography – Honors<br>GEOG 8 The Urban World<br>GEOG 30 Geography of California<br>HIST 44 History of Native Americans<br>POL 1 Political Science<br>POL 1H Political Science – Honors<br>*POL 5 Political Theory I – Ancient to Modern<br>*POL 7 Political Theory II – Early Modern to<br>Contemporary<br>POL 9 Introduction to International Relations<br>POL 10 Environmental Politics<br>POL 25 Politics of the Mexican American<br>POL 35 African American Politics<br>POL 35 African American Politics<br>PSYC 1A Introduction to Psychology<br>PSYC 1AH Introduction to Psychology<br>PSYC 1AH Introduction to Psychology<br>PSYC 15 The Psychology of Women<br>SOC 1 Sociology<br>SOC 1H Sociology – Honors<br>SOC 2 Sociology<br>SOC 2H Sociology – Honors<br>SOC 4 Introduction to Criminology<br>SOC 5H Introduction to Criminology<br>SOC 5H Introduction to Criminology<br>SOC 20 Sociology of Ethnic Relations<br>SOC 20 Hinterpersonal Communication<br>SPCH 26 Interpersonal Communication Studies | the Universe<br>CHEM 10<br>Chemistry for Allied Health Majors<br>CHEM 20<br>Introductory Organic and Biochemistry<br>CHEM 50<br>General Chemistry I<br>CHEM 50<br>General Chemistry I<br>CHEM 51<br>General Chemistry II<br>GEOG 1<br>Elements of Physical Geography<br>GEOG 1H<br>Elements of Physical Geography – Honors<br><u>GEOG 1L</u><br>Physical Geography Laboratory<br><u>GEOG 1LH</u><br>Physical Geography Laboratory – Honors<br><u>GEOL 1</u><br>Physical Geography Laboratory – Honors<br><u>GEOL 8</u><br>Earth Science<br>GEOL 8H<br>Earth Science – Honors<br><u>GEOL 8L</u><br>Earth Science Laboratory<br>GEOL 9<br>Environmental Geology<br>METO 3<br>Weather and Atmospheric Environment<br><u>Laboratory</u><br>OCEA 10<br>Introduction to Oceanography – Honors<br><u>OCEA 10L</u><br>Introduction to Oceanography Laboratory<br><u>PHSC 3</u><br>Energy Science<br><u>PHYS 1</u><br>Physics<br><u>PHYS 2AG</u><br>General Physics<br><u>PHYS 4A</u><br>Engineering Physics<br><u>PHYS 44</u><br>Engineering Physics<br><u>PHYS 44</u><br>Engineering Physics | CHIN 1       Elementary Chinese       SIGN 101 A         FRCH 1       Elementary French       SPAN 1       El         GERM 1       Elementary German       SPAN 11       Spintary         ITAL 1       Elementary Italian       Spintary       Spintary         CSU GRADUATION REQUIREMENTS ONLY IN U.S. HIS         Note:       UCSB requires a college-level U.S. history or gove         Option 1:       HIST 7 (or 7H) + HIST 8 (or 8H)       If Option #1 is selected, DO NOT select an         Or       Or       Or       Option #1       Option #1 | ementary Japanese<br>merican Sign Language 1<br>ementary Spanish<br>panish for the Spanish Speaking<br>STORY, CONSTITUTION, AND AMERICAN IDEALS:<br>ernment course.<br>nother D6 course as your third Area D course.<br>ory plus one course from American Institutions.<br><i>ates History and American Institutions.</i><br>HIST 36 Women in American History<br>HIST 40 History of the Mexican American<br><b>American Institutions:</b><br>POLI 1 Political Science<br>POLI 1 Political Science – Honors<br>POLI 25 Politics of the Mexican American<br>POLI 35 African American Politics<br>eview the UC Transfer Course Agreement (TCA) with an<br>Center. Students must see an educational advisor or<br>tification, the course must be on the list during the year |

#### **Transferring to California Colleges and Universities**

#### 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.

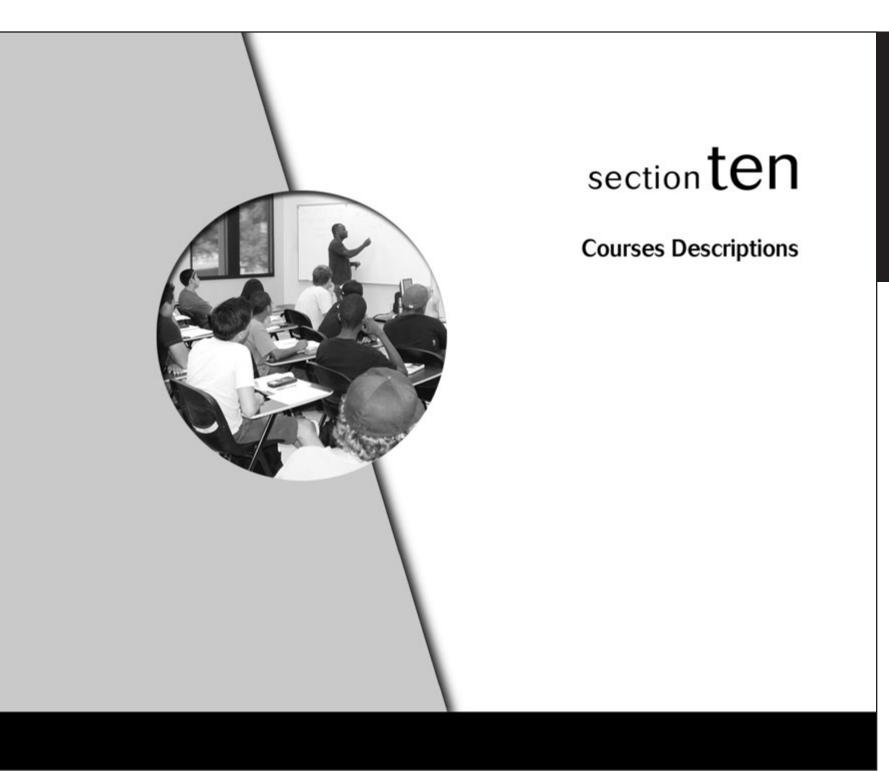
#### The independent colleges and universities include:

- Alliant International University
- American Academy of Dramatic Arts Los Angeles
- American Jewish University
- Antioch University Los Angeles
- Art Center College of Design
- Azusa Pacific University
- Biola University
- Brandman 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

- California Institute of Integral Studies
- The Chicago School of Professional Psychology
- Claremont Graduate University
- Claremont McKenna College
- Claremont University Consortium
- Cogswell Polytechnical College
- Concordia University
- DeVRY Institute of Technology
- Dominican University of California
- Drexel University Center for Graduate Studies
- Fielding Graduate University
- Fresno Pacific University
- Golden Gate University
- Harvey Mudd College
- Holy Names College
- Hope International University
- Humphreys College
- Keck Graduate Institute
- La Sierra University
- Laguna College of Art and Design
- Loma Linda University
- Loyola Marymount University
- Marymount College
- The Master's College
- Menlo College
- Mills College
- Mount St. Mary's College
- National University
- Notre Dame de Namur University
- Occidental College
- Otis College of Art and Design
- Pacific Oaks College
- Pacific Union College
- Palo Alto University
- Patten College
- Pepperdine University
- Phillips Graduate Institute
- Pitzer College
- Point Loma Nazarene University
- Pomona College
- Saint Mary's College of California
- Samuel Merritt College
- San Diego Christian College
- San Francisco Conservatory of Music
- Santa Clara University
- Saybrook Graduate School and Research Center
- Scripps College
- Simpson University
- Soka University of America
- Southern California University of Health Sciences
- Stanford University
- Thomas Aquinas College
- Touro University
- 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 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.

# 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

| AD       Atobio Drug Conscient;       119       CEM       Computer Information Systems: Networking,       124         ABID       Administration of Assist: Law Enforment;       110       CEN       Computer Information Systems: Networking,       145       MEDI       Medical Terminology       175         ARID       Amonautics       Ceneral Subjects       112       CEN       Computer Information Systems: Security       144       MICE       Medical International Systems       146       MICE       Medical International Systems       146       MICE       Medical International Systems       147       MICE       Medical International Systems       146       MICE       Medical International Systems       146       MICE       Medical International Systems       148       MICE       MiCE       147       MICE       Medical International Systems       146       MICE       Medical International Systems       147       MICE       Marce       147       MICE       Marce       147       MICE       Marce       148       MICE       MiCe       MiCe       148       MiCe       MiCe       MiCe       148       MiCe       MiCe       MiCe       148       MiCe       MiCe       148       MiCe       MiCe       148       MiCe       MiCe       149       MiCe       148                                                                                                                                                                               |      |                                                      | 1    |                                                | 1   |      |                                      |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------|------|------------------------------------------------|-----|------|--------------------------------------|-----|
| ADUL         Administration of Justice: Law Enforcement         110         CSP         Computer Information Systems: Networking         43         MEIT         Mental Health/Psychiatri (Exhindian         175           AEAG         Agriculture: General Subjects         112         CSS         Computer Information Systems: Networking         44         MIG         Manufacturing Technology         176           AEAG         Agriculture: General Subjects         112         CSS         Computer Information Systems: Networking         44         MIG         Manufacturing Technology         176           AEAG         Agriculture: Forestry, conservation         112         CSS         Computer Information Systems: Networking         44         MIG         Manufacturing Technology         176           AEAG         Agriculture: Enversion         110         CHE         Computer Information Systems: Networking         44         MIG         Manufacturing Agriculture: Social Systems: Networking         46         MIR         Marculture: Networking         118         Marculture: Networkin                                 | AD   | Alcohol Drug Counseling                              | CISM | Computer Information Systems: Management       | 142 | MEDI | Medical Terminology                  | 175 |
| AER0         Aeronautics         110         GSP         Computer Information Systems: Programming         143         MEIO         Meteorology         172           AG6A         Apriculture: Ceneral Subjects         112         CGS         Computer Information Systems: Web Applications         144         MKIC         MicroBiology         172           AG6A         Apriculture: Animal Kolth Technology         112         CGSV         Computer Information Systems: Web Applications         144         MKIC         MicroBiology         176           AG6A         Apriculture: Animal Kolth Technology         112         CGSV         Computer Information Systems: Availary         144         MKIC         MicroBiology         176           AG6A         Agriculture: Animal Hoath Technology         112         CGSV         Genetic and Networking Technology         170           AG6F         Agriculture: Personal Society         148         NIT         Nit Faffic Control         168         Physical Education: Reading Society         182           AG7F         Agriculture: Relationing & Refringeration         117         DNL         Date: Theory         149         Physical Education: Reading Society         182           AG7F         Agriculture: Control         DAte: Control         Date: Theory         162         Physica                                                                                             | ADJU | Administration of Justice: Law Enforcement           | CISN | . , ,                                          |     | MENT | Mental Health/Psychiatric Technician | 175 |
| AGAG         Apriculture General Subjects         112         CISS         Computer Information Systems: Security         44         MFG         Mandacturing Technology         172           AGRM         Apriculture Forestry, Conservation         112         CISS         Computer Information Systems: Veh Applications.         44         MIG         Microbiology         176           AGRF         Apriculture Torestry, Conservation         112         CISS         Computer and Networking Tech         44         MIG         Microbiology         176           AGRF         Apriculture: Unsetode Production         112         CISS         Computer and Networking Tech         44         MIG         National Science         46         NIES         Nutrition & Science         46         NIES         Nutrition & Science         47         PLA         Physical Education: Theory         192           ARGE         Apriculture: Per Science         15         PLA         Physical Education: Theory         192           ARGE         Apriculture: Per Science         16         PLA         Physical Education: Apaties         184           ARGE         Apriculture: Per Science         16         PLA         Physical Education: Apaties         184           ARGE         Apriculture: Per Science         15                                                                                                                            | AERO |                                                      | CISP | Computer Information Systems: Programming      | 143 | METO |                                      |     |
| AGAN         Agriculture: Animal Science - General.         112         CISW         Computer Information Systems: Xuoliany.         114         MICR Microbiology         776           AGRE         Agriculture: Animal Hoshih Technology.         111         CISK         Computer Information Systems: Xuoliany.         114         NIF         Nurthtion & Food         181           AGAR         Agriculture: Comamental Horticulture         113         COUN         Comanesting         147         OCEA         Oceanography         182           AGRE         Agriculture: Persident Productions         115         COUN         Comanesting         147         OCEA         Oceanography         182           AGRE         Agriculture: Persident Science         145         PP         Physical Exclustore: Intervery         191           AGRE         Agriculture: Persident Science         147         PCE         Physical Exclustore: Intervery         191           ARIM         Antarting Physical Science         147         PCE         Physical Exclustore: Intervery         191           ARIM         Antartory         Physical Exclustore: Intervery         191         PL         Physical Exclustore: Intervery         194           ARIM         Antartory         Physical Exclustore: Intervery         194                                                                                                                            | AGAG | Agriculture: General Subjects                        | CISS |                                                |     | MFG  | Manufacturing Technology             | 172 |
| AGFR         Agriculture: Forestry, Conservation         112         CKS         Computer Information Systems: Auxiliary         141         MUS         Music         776           AGER         Agriculture: Intervention I Commert and Networking Tech         146         Nets                                                                                                                                                                                                               | AGAN | Agriculture: Animal Science – General                | CISW | Computer Information Systems: Web Applications | 144 | MICR |                                      |     |
| AGHE         Agriculture: Animal Health Technology         111         CME         Computer and Networking Tech.         164         IF         Nutrition & Food         181           AGL         Agriculture: Omamental Horticulture         113         COUN         Counseling Sciences         146         NUES         NUES<                                                                                                                                                                                                      | AGFR |                                                      | CISX | Computer Information Systems: Auxiliary        | 141 | MUS  | Music                                | 176 |
| AGLI         Agriculture: Livestock Production         112         CORS         Correctional Sciences         146         NURS         Nursing         180           AGGR         Agriculture: Vert Science         115         CSL         Gomputer Science         145         PAP         Physician Assistant Preparatory         192           ARR         Arr Confisioning & Refrigoration         115         DNC         Dance:         147         PE         Physicial Education: Aquatics         184           ARR         Air Taffic Control         116         DYS         Diabled Students         150         PE         Physical Education: Aquatics         184           ARIT         Air Taffic Control         116         DYS         Diabled Students         150         PE         Physical Education: Individual         184           ANIA         American Language         112         ELC         Elc Control         151         PE         Physical Education: Individual         184           ANIA         Anterican Language         121         ELC         Elc Control         153         PES         Physical Education: Adaptive         184           ANIA         Anterican Language         121         EMS         Energency Medical Eschindiage         155         PHO         <                                                                                                                                                        | AGHE |                                                      | CNET |                                                |     | NF   | Nutrition & Food                     | 181 |
| AGOR         Agriculture: Ornamental Horticulture         113         COUN         Counseling         147         OCCA         Occanography         182           AGPE         Agriculture: Pert Science         115         CSL         Omputer Science         149         PE         Physical Asistant Preparatory         192           AIR         Air Gonditioning & Refrigeration         115         DN-T         Dance: Theory         147         PE-A         Physical Education: Aquatics         184           AIR Air Arriffic Contol         116         DS*D         Dance: Theory         151         PE-I         Physical Education: Individual         188           AMIA         Anorny & Physical publication: Adaptive         184         PM-I         Antropology         151         PE-I         Physical Education: Individual         188           AMIA         Antory & Physical publication: Canogroup         120         Education: Teamosopits         190         184           ANTI         Antropology         121         ELK         Electronics         151         PE-S         Physical Education: Reanogroup         182           ANTI         Art: Advertising Design/Graphics         124         ENG         Englishic Composition         155         PHI         Philosphy         182 <td>AGLI</td> <td></td> <td>CORS</td> <td></td> <td></td> <td>NURS</td> <td>Nursing</td> <td> 180</td>                                       | AGLI |                                                      | CORS |                                                |     | NURS | Nursing                              | 180 |
| AGPE         Agriculture: Pet Science         145         PAP         Physical Education: Massitant Preparatory         192           ARR         Air Griffictioning & Refrigeration         115         DN-T         Dance:         147         PE         Physical Education: Rayatics         184           AIR         Air Taffic Control         116         DSF         Dacaled Students         150         PE-F         Physical Education: Ruduatics         184           AIRT         Air Taffic Control         116         DSF         Dacaled Students         150         PE-F         Physical Education: Ruduatics         184           AIRT         Antorony & Physical Education: Aquatics         184         Education: Ruduatics         184           ANNA         Ancence         121         EEC         Electronics         151         PE-L         Physical Education: Ruduatics         186           ANNA         Anchicectural Technology         121         EMS         Energency Medical Service         153         PE-L         Physical Education: Ruduatics         185           ARG         Architectural Technology         121         EMS         Energency Medical Service         153         PE-L         Physical Education: Ruduatics         185           ARG         Architectural Techno                                                                                                                                         | AGOR | Agriculture: Ornamental Horticulture                 | COUN | Counseling                                     | 147 | OCEA | Oceanography                         | 182 |
| AIRCAIRC onditioning & Refrigeration115DN-TDance: Theory149PEPhysical Education: Revery191AIRMAircaff Maintenance Technology117DNCEDance:117PLFPhysical Education: Aquatics184AIRTAir Taffic Control116DSPSDisabled Students150PLFPhysical Education: Aquatics184AIRTAirt Taffic Control116DSPSDisabled Students151PLFPhysical Education: Adaptive184AIRTAntropology212ELECElectronics151PLFPhysical Education: Adaptive184ANTHAnthropology212ELECElectronics151PLFPhysical Education: Adaptive184ARABArchitectural Technology212EMSEnregency Medical Technician154PHIPhysical Education: Adaptive183ARMArchitectural Technology212EMSEnregency Medical Technician154PHIPhysical Glucation: Adaptive183ANIMArt duritistion Artices212ENGREngineering154PHIPhysical Science192ARTEArt: Back Studio Arts215ESTElectronics Systems Technology159Physical Science192ARTEArt: Secial Studio Arts216FASHRashion Merchandising & Design168Physical Science192ARTEArt: Secial Studio Arts217FASHRashion Merchandising & Design168Physical Science <td>AGPE</td> <td></td> <td>CSCI</td> <td>Computer Science</td> <td>145</td> <td>PAP</td> <td>Physician Assistant Preparatory</td> <td> 192</td>                                                                                                                                                                                                                                                                                            | AGPE |                                                      | CSCI | Computer Science                               | 145 | PAP  | Physician Assistant Preparatory      | 192 |
| ART         Air Taffic Control         116         DSP.         Physical Education: Fitness         187           AMLA         American Language         119         EDUC         Education         151         PE-L         Physical Education: Individual         188           ANTA         Anatomy & Physiology         120         EDUC         Education         151         PE-L         Physical Education: Individual         188           ANTH         Antoropology         121         ELEC         Electronics         151         PE-S         Physical Education: Aduative         184           ANTH         Antoropology         121         ELEC         Electronics         153         PE-S         Physical Education: Thiletics         185           ARCH         Architectural Technology         121         EMS         Emergency Medical Echnician         154         PHIL         Philics Physical Education: Thiletics         182           ANIM         Art: Baic'S Studio Arts         125         ENGE         Englise: Composition         155         PHOT         Photography         182           ARTB         Art: Baic'S Studio Arts         125         FCS         Fanily & Consumer Sciences         158         PHIC         Physical Education         175 <td< td=""><td>AIRC</td><td></td><td>DN-T</td><td>Dance: Theory</td><td>149</td><td>PE</td><td>Physical Education: Theory</td><td> 191</td></td<>                            | AIRC |                                                      | DN-T | Dance: Theory                                  | 149 | PE   | Physical Education: Theory           | 191 |
| ART         Air Taffic Control         116         DSP.         Physical Education: Fitness         187           AMLA         American Language         119         EDUC         Education         151         PE-L         Physical Education: Individual         188           ANTA         Anatomy & Physiology         120         EDUC         Education         151         PE-L         Physical Education: Individual         188           ANTH         Antoropology         121         ELEC         Electronics         151         PE-S         Physical Education: Aduative         184           ANTH         Antoropology         121         ELEC         Electronics         153         PE-S         Physical Education: Thiletics         185           ARCH         Architectural Technology         121         EMS         Emergency Medical Echnician         154         PHIL         Philics Physical Education: Thiletics         182           ANIM         Art: Baic'S Studio Arts         125         ENGE         Englise: Composition         155         PHOT         Photography         182           ARTB         Art: Baic'S Studio Arts         125         FCS         Fanily & Consumer Sciences         158         PHIC         Physical Education         175 <td< td=""><td>AIRM</td><td>Aircraft Maintenance Technology</td><td>DNCE</td><td>Dance</td><td>147</td><td>PE-A</td><td>Physical Education: Aquatics</td><td> 184</td></td<> | AIRM | Aircraft Maintenance Technology                      | DNCE | Dance                                          | 147 | PE-A | Physical Education: Aquatics         | 184 |
| ANATAnatomy & Physiology.120EDTEngineering Design Technology.155PE-LPhysical Education: Adaptive184ANTHAnthropology.121EDTEngineering Design Technology.151PF-SPhysical Education: Adaptive180ARABArabic121EMSEmergency Medical Service.153PF-XPhysical Education: Adaptive.183ARIMArt: Advertising Design/Graphics124EMSEmergency Medical Technician154PHITPhilosophy.183ANIMArt: Advertising Design/Graphics124ENGEEngineering.154PHITPhysical Therapy.192ARTBArt: Basic Studio Arts125ESTElectronics Systems Technology133PHISPhysics192ARTGArt: Sacis Studio Arts125ESTEffectronics Systems Technology160POUPolitical Science192ARTDArt: Iwo-Dimensional Studio Arts127FRCHFrench161PSYCPsychology194Art: Sacis Sudio Arts126EGO Geography161R-TV Radio & Technology197194AHTArt History128GEOG Geology163READ Reading198READ Reading198RATDArt History128GEOG Geology161R-TV Radio & Technology197194BUSA Business: Accounting131HRM Hospicially & Restaurant Management163READ Reading198RNTBology130GERM G                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AIRT |                                                      | DSPS | Disabled Students                              | 150 | PE-F | Physical Education: Fitness          | 187 |
| ANTHAnthropology121ELECElectronic151PE-SPhysical Education: Team Sports190ARABArabic121EMSEmergency Medical Service153PE-XPhysical Education: Athletics182ARRHArchitectural Technology121EMSEmergency Medical Service153PHIPhilosophy182ANIMArt: Advertising Design/Graphics124EMCEnglish: Composition155PHOTPhotography183ANIMArt: Animation122ENGEnglish: Composition154PHITPhysical Therapy192ARTBArt: Sasic Studio Arts125ETElectronics Systems Technology154PHYSPhysical Seince192ARTGArt: Social Studio Arts125FKSFashion Mechandising & Design158PHYSPhysical Seince192ARTGArt: Social Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Twoe-Dimensional Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Twoe-Dimensional Studio Arts129GEOGGeography161R-TVRadio & Television195ARTArt: Social Studio Arts129GEOGGeography161R-TVRadio & Television195ARTArt: Social Studio Arts129GEOGGeography163RADRadio & Television195ART <t< td=""><td>AMLA</td><td>American Language 119</td><td>EDUC</td><td>Education</td><td>151</td><td>PE-I</td><td>Physical Education: Individual</td><td> 188</td></t<>                                                                                                                                                                                                                                                                                                                                | AMLA | American Language 119                                | EDUC | Education                                      | 151 | PE-I | Physical Education: Individual       | 188 |
| ARAB       Arabic       121       EMS       Emergency Medical Service       153       PE-X       Physical Education: Athletics       185         ARCH       Architectural Technology       121       EMT       Emergency Medical Technician       154       PHIL       Philosophy       183         ANIM       Art: Advertising Design/Graphics       122       ENGE       English: Composition       155       PHOT       Photography       183         ANIM       Art: Advertising Design/Graphics       122       ENGE       English: Composition       154       PHTH       Physical Science       192         ARTB       Art: Basic Studio Arts       125       EST       Electronics Systems Technology       158       PHOS       Physical Science       192         ARTZ       Art: Special Studio Arts       125       FCS       Fashion Merchandising & Design       158       PHOS       Physical Science       192         ARTD       Art: Inree-Dimensional Studio Arts       126       FRK       French       161       POLI       Political Science       193         ARTD       Art: Inree-Dimensional Studio Arts       126       GEOG       Geology       168       POLI       Political Science       194         ARTD       Astronomy       <                                                                                                                                                                                                                     | ANAT | Anatomy & Physiology 120                             | EDT  | Engineering Design Technology                  | 155 | PE-L | Physical Education: Adaptive         | 184 |
| ARCHArchitectural Technology121EMTEmergency Medical Technician154PHILPhilosophy182ANIMArt: Advertising Design/Graphics124EMGEnglish: Composition155PHOTPhotography183ANIMArt: Animation122ENGREnglish: Composition155PHOTPhotography183ARTBArt: Gallery & Professional Practices125ESTElectronics Systems Technology153PHSCPhysics192ARTGArt: Gallery & Professional Studio Arts125FSSFashion Mechandising & Design158PLGBusiness: Pralegal134ARTDArt: Twe-Dimensional Studio Arts126FIREFire Fench161PSYCPsychology193ARTDArt: Two-Dimensional Studio Arts127FRCHFrench161PSYCPsychology194ARTSAttistory128GEOGGeography161R-TVRalo & Relevision195BINBotany130GERMGerman161RSVCPsychology194BUSABusiness: Roommications131HKMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Subsect Sommunications132HTHistort-hology167SPCService Learning200BUSCBusiness: Management133IDInterior Design167SPLService Learning202BUSCBusiness: Sa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANTH | Anthropology 121                                     | ELEC |                                                |     | PE-S | Physical Education: Team Sports      | 190 |
| ANIMArt: Advertising Design/Graphics124ENGLEnglist: Composition155PHOTPhotography183ANIMArt: Animation122ENGREngineering154PHTHPhysical Therapy192ARTGArt: Gallery & Professional Practices125FTElectronics Systems Technology153PHYSPhysical Science192ARTGArt: Gallery & Professional Studio Arts125FTFTElectronics Systems Technology158PHYSPhysical Science192ARTSArt: Three-Dimensional Studio Arts126FIREFire Fire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts127FRCHFrench161PSYCPsychology194ASTRArt: Two-Dimensional Studio Arts126GEOGGeography161R-TVRadio & Television195ARTDArt: Storomy128GEOGGeography161R-TVRadio & Television195BIOLBiology130GERMGerman163RADRadio (Streicenhology197BIOLBiology131HIMHospitality & Restaurant Management166SiCSicin Sign Language & Interpreting200BUSABusiness: Accounting131HIMHospitality & Restaurant Management166SiCSicin Sign Language & Interpreting200BUSABusiness: Law133IDInterior Design167SPANSpanish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ARAB |                                                      | EMS  | Emergency Medical Service                      | 153 | PE-X | Physical Education: Athletics        | 185 |
| ANIMArt: Animation122ENGREngineering154PHTHPhysical Therapy192ARTBArt: Basic Studio Arts125ESTElectronics Systems Technology133PHSCPhysical Science192ARTGArt: Gallery & Professional Practices125FCFamily & Consumer Sciences158PHSCPhysics192ARTZArt: Special Studio Arts126FREFire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts126Geography161R-TVRadio & Television195ARTAArt: Two-Dimensional Studio Arts126Geolog6eology163RADRadio & Television195ASTRAstronomy129GEOLGeology163RADRadio & Television195BIVBiology130GERMGerman163RADReading198BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Law133IInterior Design167SPANSpanish202BUSCBusiness: Law133IDInterior Design167SPANSpanish202BUSSBusiness: Salex135IDJapanese170SURV <td< td=""><td>ARCH</td><td>Architectural Technology 121</td><td>EMT</td><td>Emergency Medical Technician</td><td>154</td><td>PHIL</td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                     | ARCH | Architectural Technology 121                         | EMT  | Emergency Medical Technician                   | 154 | PHIL |                                      |     |
| ARTBArt: Basic Studio Arts125ESTElectronics Systems Technology153PHSCPhysical Science192ARTGArt: Gallery & Professional Practices125FCSFamily & Consumer Sciences158PHYSPhysics192ARTAArt: Special Studio Arts126FKFFashion Merchandising & Design158PHVSPhysics192ARTAArt: Special Studio Arts126FIREFire Technology160PolLPolLical Science193ARTDArt: Three-Dimensional Studio Arts127FRCHFrench161PSVCPsychology194AHISArt: History128GEOGGeography161R-TVRadio & Television195ASTRAstronomy129GEOLGeology163RADRadiologic Technology197BIOLBiology130GERMGerman163READReading198BTNYBotany131HRMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Accounting131HRMHospitality & Restaurant Management165SLService Learning200BUSCBusiness: Law133INSPInspection & Estimating, Building167SPASpanish202BUSABusiness: Management133INSPInspection & Estimating, Building167SPASpanish202BUSABusiness: Sales, Merchandising & Marketing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANIM | Art: Advertising Design/Graphics                     |      | English: Composition                           | 155 | PHOT | Photography                          | 183 |
| ARTG       Art: Gallery & Professional Practices       125       FCS       Family & Consumer Sciences       158       PHYS       Physics       192         ARTZ       Art: Special Studio Arts       125       FASH       Fashion Merchandising & Design       158       PHUS       Physics       192         ARTS       Art: Three-Dimensional Studio Arts       126       FIRE       Fire Technology       160       POLL       PolL       PolLical Science       193         ARTS       Art: Two-Dimensional Studio Arts       127       FRCH       French       161       PSVC       Psychology       194         AHIS       Art History       128       GEOG       Geography       161       R-TV       Radio & Television       195         ASTR       Astronomy       129       GEOL       Geology       163       RAD       Radio & Television       197         BIOL       Biology       130       GERM       GERM German       163       READ       Reading       198         BUS       Business: Accounting       131       HIST       History       164       SIGN       Sign Language & Interpreting       200         BUSC       Business: Business: Conomics       132       HUMA       Humanities       1                                                                                                                                                                                                                                                             | ANIM | Art: Animation                                       |      | 5 5                                            |     | PHTH | Physical Therapy                     | 192 |
| ARTZ       Art: Special Studio Arts       125       FASH       Fashion Merchandising & Design       158       PLGL       Business: Paralegal       134         ARTS       Art: Three-Dimensional Studio Arts       126       FIRE       Fire Technology       160       POLI       PolItical Science       193         ARTD       Art: Two-Dimensional Studio Arts       127       FRCH       French       161       PSYC       Psychology       194         ARTS       Art: Two-Dimensional Studio Arts       127       FRCH       French       161       PSYC       Psychology       194         ARTS       Art: Two-Dimensional Studio Arts       127       FRCH       French       161       PSYC       Psychology       194         ARTS       Art: Three-Dimensional Studio Arts       128       GEOG       Geography       161       RTV       Radio & Elevision       195         AST       Astronomy       129       GEOL       Geology       163       RAD       Radiologic Technology       197         BIO       Biology       130       GERM       German       163       RAD       Radiologic Technology       198         BUSA       Business: Construincations       132       HT       Historthisty & Restaurant Managemen                                                                                                                                                                                                                                           | ARTB |                                                      |      | Electronics Systems Technology                 | 153 |      | ,                                    |     |
| ARTSArt: Three-Dimensional Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts127FRCHFrench161PSVCPsychology194AHISArt History128GEOGGeography161R-TVRadio & Television195ASTRAstronomy129GEOLGeology163RADRadio & Television195Biology130GERMGerman163READReading198BTNYBotany131HISTHistory164RESDRespiratory Therapy199BUSABusiness: Rusiness Communications132HTHistorechology165SLService Learning200BUSCBusiness: Law133IDInterior Design167SPANSpanish202BUSBBusiness: Rales: Rate133INSPInspection & Estimating, Building167SPANSpanish202BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170IECHTechnology & Related Courses205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURV <td< td=""><td>ARTG</td><td>Art: Gallery &amp; Professional Practices</td><td></td><td>· ·</td><td></td><td></td><td>•</td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                                     | ARTG | Art: Gallery & Professional Practices                |      | · ·                                            |     |      | •                                    |     |
| ARTD       Art: Two-Dimensional Studio Arts       127       FRCH       French       161       PSYC       Psychology       194         AHIS       Art History       128       GEOG       Geography       161       R-TV       Radio & Television       195         ASTR       Astronomy       129       GEOL       Geology       163       RAD       Radio (ogic Technology       197         BIOL       Biology       130       GERM       German       163       RAD       Radio (ogic Technology       197         BUSA       Business: Accounting       131       HIST       History       164       RESD       Respiratory Therapy       199         BUSA       Business: Accounting       131       HRM       Hospitality & Restaurant Management       166       SIGN       Sign Language & Interpreting       200         BUSC       Business: Conomics       132       HT       Histotechnology       165       SL       Service Learning       200         BUSL       Business: Conomics       132       ID       Interior Design       167       SPAN       Spanish       202         BUSM       Business: Real Estate       135       ITAL       Italian       167       SPAN       Spanish                                                                                                                                                                                                                                                                                |      |                                                      |      | Fashion Merchandising & Design                 | 158 |      |                                      |     |
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| ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT ADJU 1 — The Administration of Justice System 3 Units Degree Applicable, CSU, UC 4 hours lecture History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction. ADJU 2 — Principles and Procedures of the Justice System 3 Units                                                                                                                                                                                         | ADJU 20 — Principles of Investigation 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: Eligibility for English 68</i><br>Fundamentals of investigation; 4th Amendment issues including crime<br>scene search and recording; collection and preservation of physical<br>evidence; modus operandi; scientific aids; sources of information;<br>interviews and interrogation; follow up and case preparation.                                                                                     | AERO 24 — Navigation 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Advisory: AERO 23<br>Advanced dead reckoning navigation procedures. Aeronautical<br>computers and their application in cross-country flying. Use of radio<br>navigation aids, flight planning, flight directors, global positioning<br>system, and electronic flight instrumentation systems.                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Degree Applicable, CSU<br>54 hours lecture<br>Roles and responsibilities of each segment of the justice system;<br>additional focus on relationships between system segments and sub-<br>system procedures from initial incident to final disposition.<br><b>ADJU 3 — Concepts of Criminal Law</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Provides an overview of California criminal law from the perspective of<br>the law enforcement officer.                                                   | <ul> <li>ADJU 38 — Narcotics Investigation 3 Units<br/>Degree Applicable</li> <li>54 hours lecture</li> <li>Prerequisite: Eligibility for English 68<br/>Investigation techniques for drug enforcement. Drug effects, use of<br/>informants, amendment issues, and handling of evidence.</li> <li>ADJU 59 — Gangs and Corrections 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture<br/>Advisory: Eligibility for ENGL 68, and ADJU 1</li> </ul>                                                             | AERO 25 — Commercial Pilot Ground School 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Advisory: AERO 23<br>FAA Commercial Pilot certification requirements, including<br>aerodynamics, commercial pilot maneuvers, complex aircraft operations,<br>multi-engine aircraft operations, aircraft weight and balance, aircraft<br>performance charts, and radio navigation using advanced<br>instrumentation. Prepares students for completion of the FAA<br>Commercial Pilot Computerized Knowledge Examination.                                                                                                                                                                                                                                                                    |
| ADJU 4 — Legal Aspects of Evidence 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Introduction to criminal evidence, including admissibility, witness<br>competency, privileged communication, hearsay, and collection and<br>preservation of evidence.                                                                                                                                                                                                                                                                   | Contemporary street and prison gang issues, including historical and current perspectives, gang dynamics, identification of characteristics, and cultural differences of gang philosophy. Includes law enforcement and correction?s role in intervention and suppression.  ADJU 68 — Administration of Justice Report Writing 3 Units Degree Applicable                                                                                                                                                                 | ■ AERO 26 — Aviation Weather 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>A basic study of weather elements, the atmosphere, weather mechanics,<br>weather disturbances, weather analysis and forecasts. Evaluation of<br>aviation weather reports and forecasts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul> <li>ADJU 5 — Community Relations 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Prerequisite: Eligibility for English 68<br/>Community problems and policing. Focus on service image, diversity,<br/>human relations, crises and confrontations with the public.</li> <li>ADJU 6 — Concepts of Enforcement Services 3 Units<br/>Degree Applicable</li> </ul>                                                                                                                                             | <ul> <li>54 hours lecture<br/>Techniques for proper documentation of crime reports and related law<br/>enforcement records. Use of simulations and role-playing.</li> <li>ADJU 74 — Vice Control 3 Units<br/>Degree Applicable</li> <li>54 hours lecture<br/>Prerequisite: Eligibility for English 68<br/>Code and case law dealing with vice; detection and suppression;</li> </ul>                                                                                                                                    | ■ AERO 27 — Aviation Safety and Human Factors 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Advisory: AERO 23</i><br>Evaluation and analysis of factors which lead to aircraft accidents.<br>Includes the study of aircraft accident cause factors, with emphasis on<br>human behavior as it relates to the environment of the pilot and air<br>traffic controller.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 54 hours lecture<br>Responsibilities, techniques and methods of police patrol with emphasis<br>on the basic knowledge required in handling common police<br>occurrences.<br><b>ADJU 13 — Concepts of Traffic Services</b><br>54 hours lecture<br>A study of traffic management, collision reconstruction, collision factors<br>including law violations and human factors, collision evidence, traffic<br>enforcement techniques and specialization in traffic management.<br>Emphasis is placed on service to the motoring public. | AERONAUTICS<br>AERONAUTICS<br>AERONAUTICS<br>AERO 23 — Primary Pilot Ground School<br>4 Units<br>Degree Applicable, CSU<br>72 hours lecture<br>Basic aerodynamics, aircraft performance, Federal Aviation Regulations,<br>aviation weather factors, and cross-country navigation procedures;<br>provides introductory material on radio navigation, aeromedical factors,<br>and radio communications procedures. Meets the preparation<br>requirements for the FAA Private Pilot computerized knowledge<br>examination. | <ul> <li>AERO 28 — Aircraft and Engines</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture<br/>Advisory: AERO 23</li> <li>Aircraft design, subsystems, repair and maintenance. Principles of<br/>internal combustion engines, fuel system, engine construction and<br/>design, lubrication and cooling methods, ignition system, basic<br/>troubleshooting. Turbine engine basic design and operational<br/>characteristics.</li> <li>AERO 29 — Federal Aviation Regulations</li> <li>2 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture<br/>Federal Aviation Regulations that pertain to pilot certification, aircraft<br/>maintenance, general operating rules; air traffic control practices and<br/>procedures; reporting of aircraft accidents.</li> </ul> |

| ■ AERO 30 — Instrument Ground School 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Advisory: AERO 23 and AERO 26<br>Instrument Flight Rules, Air Traffic Control communications and<br>procedures, air navigation radio aids, instrument landing systems, flight<br>instruments, aircraft performance, aeronautical publications, instrument<br>approach procedures, IFR cross-country navigation, and instrument<br>weather. Meets the preparation requirements for the FAA Instrument<br>Pilot computerized knowledge exam.                                                                                                                                                           | <ul> <li>AERO 45A — Multi-Engine Turbine Aircraft Operations 3 Units<br/>Degree Applicable</li> <li>54 hours lecture<br/>Advisory: Private Pilot's Certificate and AERO 30 or Instrument Rating<br/>An introduction to the design features and operational characteristics of<br/>a selected multi-engine turbine aircraft utilized in regional airline<br/>operations and corporate aviation, with emphasis on aircraft and engine<br/>systems.</li> <li>AERO 58 — Flight Instructor Ground School<br/>Degree Applicable</li> </ul>                   | <ul> <li>AGHE 62A — Clinical Pathology 4 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>54 hours lab<br/>Prerequisite: AGHE 86<br/>Hematology, clinical chemistries, internal parasites, immunology,<br/>serology, and vaginal cytology of domestic animals.</li> <li>AGHE 62B — Clinical Pathology 4 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> </ul>                                                                                                  |
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| ARRO 40 — Flight 1 Unit<br>Degree Applicable<br>(May be taken for Pass/No Pass only)<br>18 hours lecture<br>Advisory: AERO 23 taken prior or concurrently<br>Flight training career preparation, including evaluation of locally<br>available flight training options and flight career opportunities<br>including corporate aviation, charter operations, cargo airline careers,<br>and military flight training.                                                                                                                                                                                                                                                                                 | <ul> <li>54 hours lecture</li> <li>Advisory: AERO 25 and AERO 30 or Commercial Pilot Certificate with<br/>Instrument Rating</li> <li>The learning process, basic teaching principles, and the application of<br/>these principles in teaching student pilots. Analysis of flight maneuvers<br/>and instruments. Prepares students for the FAA computerized<br/>knowledge tests for Flight Instructors.</li> </ul>                                                                                                                                      | <ul> <li>54 hours lab         Prerequisite: AGHE 86     </li> <li>Bacteriology, clinical chemistry, urinalysis, external parasites and cytology of domestic animals.</li> <li>             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     </li> </ul>          |
| AERO 40L — Flight Laboratory 1 Unit<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>54 hours lab<br><i>Corequisite: AERO 40</i><br><i>Advisory: AERO 23 taken prior or concurrently</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul> <li>AGHE 54 — Veterinary Office Procedures 3 Units<br/>Degree Applicable</li> <li>54 hours lecture</li> <li>Includes veterinary hospital records, client relations, medical</li> <li>terminology, filing of governmental reports, legal responsibilities of<br/>animal health technicians and application of veterinary medical ethics.</li> <li>AGHE 60 — Medical Nursing and Animal Care 4 Units</li> </ul>                                                                                                                                     | 51B or AGAG 91<br>Basic concepts in pharmacological chemistry. Pharmaceuticals and<br>biologics commonly used in the maintenance of animal health. Includes<br>generic terminology, abbreviations for prescriptions, labeling<br>requirements, state and federal laws, classification of materials, weights<br>and measures, drug dosage flow rates, pharmacological mathematics<br>and the metric system, side effects and drug interactions.                                                    |
| Primary pilot training and the development of specialized skills.<br>Students individually schedule training lessons at a flight school of their<br>choice, under the supervision of an FAA certificated flight instructor.<br>Students must complete a minimum of 15 hours of flight time,<br>including three hours of dual instruction. Students who repeat this<br>course will improve skills through further instruction and practice.<br><b>AERO 41 — Basic Flight Simulator Laboratory</b><br>(May be taken for Pass/No Pass only)<br>27 hours lab                                                                                                                                           | Degree Applicable, CSU<br>54 hours lecture<br>54 hours lab<br><i>Prerequisite: AGHE 86 and formal admittance to the Registered Veterinary</i><br><i>Technology program</i><br>Animal examination for health and disease conditions in the animal<br>hospital, including sanitation, administration of medicine, emergency<br>treatment, therapeutic techniques, dental prophylaxis, venipuncture,<br>electrocardiology, application of casts, splints and other appliances.<br>Includes diseases, their causes and effects, and immunology of animals. | AGHE 65 — Veterinary Radiography 2 Units<br>Degree Applicable, CSU<br>18 hours lecture<br>54 hours lab<br>Prerequisite: Formal admittance to the Registered Veterinary Technology<br>Program<br>Basic concepts and skills of veterinary positioning of canine, feline,<br>avian, reptilian species, and livestock for radiography; processing of the<br>radiograph; radiation safety; basic technique and instrumentation;<br>contrast radiography and ultrasound imaging. Emphasizes performance |
| <ul> <li>Advisory: AERO 25</li> <li>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.</li> <li> <b>AERO 42</b> — 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.     </li> </ul> | AGHE 61 — Surgical Nursing 4 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>54 hours lab<br><i>Prerequisite: AGHE 60</i><br>Surgical preparation, surgical assistance, post-operative care, administer<br>and monitor anesthesia, dentistry, CPR, sterilization and the<br>maintenance of a sterile environment.                                                                                                                                                                                                                               | 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.                                                                                                                                                                                                                             |

**COURSE DESCRIPTIONS** 

| <ul> <li>AGHE 83A — Work Experience in Animal Health Degree Applicable Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only)</li> <li>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.</li> <li>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.</li> </ul>                                                                                                                    | AGRICULTURE: ANIMAL SCIENCE GENERAL AGAN 1 — Animal Science 3 Units Degree Applicable, CSU, UC S4 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 Degree Applicable, CSU, UC S4 hours lecture Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ■ AGAG 59 — Work Experience in Agriculture 1 to 4 Units<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 to 300 hours lab<br><i>Prerequisite: Compliance with Work Experience regulations as designated</i><br><i>in the College Catalog</i><br>This course is designed to provide Animal Science majors with actual<br>on-the-job experience in an approved work station which is related to<br>classroom instruction. A minimum of 75 paid clock hours or 60 non-paid<br>clock hours per semester is required for each one unit of credit. It is<br>recommended that the hours per week are equally distributed<br>throughout the semester. Students who repeat this course will improve<br>skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                 |
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| ■ AGHE 84B — Applied Animal Health Procedures 1 Unit<br>Degree Applicable<br>54 hours lab<br>Spring field study course in the collection, handling and analysis of<br>feces, urine and blood samples of pet and domestic animals. Practical<br>experience in applied clinical procedure and techniques, including<br>treatments and minor surgical procedures with school domestic farm<br>animals. Experiences with animals will vary due to seasonal changes<br>and different husbandry practices during fall and spring.                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul> <li>AGAN 51 — Animal Handling and Restraint 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Methods of proper handling for large and small animals, including<br/>chemical and physical techniques of restraint. Field trip required.</li> <li>AGAN 94 — Animal Breeding 3 Units<br/>Degree Applicable</li> <li>54 hours lecture</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ■ AGAG 91 — Agricultural Calculations 3 Units<br>Degree Applicable<br>54 hours lecture<br><i>Prerequisite: MATH 50</i><br>Calculating the proper dosages of veterinary drugs, application rates of<br>farm and horticultural chemicals inclusive of fertilizer and pesticide<br>materials, feed rations, land area and volume measurements, calibrating<br>application equipment, plotting production rates and feed conversion,<br>determining proper concentrations and dilutions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul> <li>AGHE 85 — Seminar in Registered Veterinary Technology 1 Unit Degree Applicable</li> <li>18 hours lecture</li> <li>Prerequisite: Completion of the Registered Veterinary Technology program Group study course designed to prepare students for national and state vetinary technician 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.</li> <li>AGHE 86 — Anatomy and Physiology of Domestic Animals 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab</li> <li>Prerequisite: Formal admittance to the Registered Veterinary Technology Program.</li> <li>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.</li> </ul> | 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. | <ul> <li>AGAG 99 — Special Projects in Agriculture 2 Units<br/>Degree Applicable, CSU</li> <li>(May be taken four times for credit)</li> <li>(May be taken for Pass/No Pass only)</li> <li>36 hours lecture</li> <li>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.</li> <li>AGRICULTURE: LIVESTOCK PRODUCTION</li> <li>AGLI 12 — Exotic Animal Management 3 Units Degree Applicable</li> <li>54 hours lecture</li> <li>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.</li> </ul> |

| <ul> <li>AGOR 30 — Ornamental Plants - Trees and Woody Shrubs 3 Units<br/>Degree Applicable, CSU, UC</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Identification, growth habits, culture and ornamental use of landscape<br/>trees and shrubs adapted to climates of California. Plants emphasized<br/>will come from the California Association of Nurserymen (CAN) and<br/>California Landscape Contractors Association (CLCA) certification test<br/>plant lists.</li> <li>AGOR 32 — Landscaping and Nursery Management 3 Units</li> </ul>      | ■ AGOR 51 — Tractor and Landscape Equipment Operations 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Selection, operation, repair and maintenance of power equipment used<br>in the landscape industry. Includes two- and four-wheel drive tractors,<br>skip loaders, skid steer loaders, backhoes, lawnmowers, edgers, weed<br>eaters, blower vacuums, rototillers, chainsaws, spraying equipment and<br>all-terrain vehicles. Laboratory includes use of this equipment.                                   | ■ AGOR 56 — Engine Diagnostics 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Analysis and evaluation of tractor engine power failures with hands-on<br>experience in the proper diagnostic procedures of power equipment.<br>Includes service, maintenance and repair of tractor electrical systems:<br>electrical wiring, voltage regulators, generators, alternators, switches,<br>gauges, batteries and test equipment.                                                                                                                                                                                      |
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| Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Advisory: AGOR 1<br>Operation and management of wholesale and retail nurseries. Includes<br>site location and layout of areas; greenhouse management; soil mixes<br>and proper use of fertilizers, insecticides, fungicides, herbicides and<br>growth regulators; irrigation; mechanization; financing; personnel<br>management; retail displays, advertising and customer relationships;                                                                                                        | <ul> <li>AGOR 52 — Hydraulics 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Operation, maintenance, and repair of hydraulic systems used for<br/>agriculture and industrial equipment. Emphasis on pumps, valves,<br/>cylinders, flow control, reservoirs, lines, motors, and hydrostatic<br/>transmissions.</li> <li>AGOR 53 — Small Engine Repair I 3 Units</li> </ul>                                                                                                                                                                               | ■ AGOR 57 — Power Train Repair 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Service, maintenance, and repair of power trains. Includes clutches,<br>transmissions, differentials, power take-off units, and final drives used to<br>transmit power on tractors and other outdoor power equipment.                                                                                                                                                                                                                                                                                                                   |
| 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                                                                                        | <ul> <li>AGOR 53 — Small Engine Repair I</li> <li>Begree Applicable, CSU</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2-cycle engines, 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.</li> <li>AGOR 54 — Small Engine Repair II</li> <li>3 Units</li> </ul>                                                       | <ul> <li>AGOR 62 — Landscape Irrigation - Design and Installation 3 Units<br/>Degree Applicable, CSU</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Design and installation of turf and ornamental irrigation systems.</li> <li>Design techniques, sprinkler system components and hydraulic<br/>principles used in nursery management, interior design, residential and<br/>commercial landscaping. Special emphasis is given to water<br/>conservation incorporating controlled flow technologies.</li> </ul>                                                                                                            |
| required.<br>AGOR 40 — Sports Turf Management 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Prerequisite: AGOR 39 or equivalent experience<br>Prepares students to work in the sports turf industry. Emphasizes turf<br>cultural techniques used in sports turf management. Includes turf<br>surfaces used on baseball, football, soccer, tennis, golf courses, driving<br>ranges and other sports fields in both professional and amateur sports.<br>Field trips included. | Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Advanced repair and maintenance of mid-horsepower gasoline and<br>diesel engines. Multi-cylinder air- and water-cooled engines used in<br>landscape, industrial and agricultural applications. Repair of ridemowers,<br>generator engines, air compressor engines, 2-cycle and 4-cycle engines,<br>spraying equipment, all-terrain vehicles, and other related gas-powered<br>equipment. Students gain actual hands-on experience maintaining and<br>overhauling engines. | <ul> <li>AGOR 63 — Landscape Irrigation Systems Management 3 Units<br/>Degree Applicable</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>36 hours lecture</li> <li>54 hours lab</li> <li>Systematic approach to water conservation in landscapes. Repair<br/>techniques that will allow a current system to efficiently operate to its<br/>initial design. Trouble shooting procedures including field testing of<br/>valves and controllers. Irrigation efficiency testing will be incorporated<br/>to demonstrate proper methods of water audits and system evaluation.</li> <li>AGOR 64 — Landscape Irrigation - Drip and Low Volume 3 Units<br/>Degree Applicable</li> </ul> |
| ■ AGOR 50 — Soil Science and Management 3 Units<br>Degree Applicable, CSU, UC<br>36 hours lecture<br>54 hours lab<br>Principles of proper soil management to optimize plant growth,<br>including management of air, water, nutrients and organic matter.<br>Physical and chemical properties of soil that govern soil reactions and<br>interactions. Field trips are included.                                                                                                                                                                                 | Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Repair and maintenance of diesel engines used to power industrial,<br>landscape and agricultural equipment.                                                                                                                                                                                                                                                                                                                                                               | (May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Conservation of water in landscapes by utilization of drip and low-flow<br>irrigation practices. Design, installation techniques, operation and<br>maintenance of drip and low-flow irrigation systems, including<br>determination of irrigation requirements, selection of emitters and low-<br>flow devices, and uniformity of water distribution. Includes hands-on<br>experience in design and installation techniques.                                                                                                                                                                            |

| <ul> <li>AGOR 71 — Landscape Construction Fundamentals Degree Applicable, CSU 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.</li> <li>AGOR 72 — Landscape Hardscape Applications 3 Units Degree Applicable, CSU (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.</li> <li>AGOR 73 — Landscaping Laws, Contracting, 3 Units and Estimating Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture</li> <li>Landscape construction, and estimating as they pertain to landscape construction. Information covered will be helpful for the Landscape laws, contracting, and estimating as signments required.</li> <li>AGOR 75 — Urban Arboriculture 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab</li> <li>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.</li> </ul> | <ul> <li>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</li> <li>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 of 00 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.</li> <li>AGRECULTURE: PET SCIENCE</li> <li>AGPE 70 — Pet Shop Management 3 Units Degree Applicable 54 hours lecture</li> <li>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.</li> <li>AGPE 71 — Canine Management 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab</li> <li>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.</li> <li>AGPE 72 — Feline Management 3 Units Degree Applicable, CSU 54 hours lecture 4<i>Advisory: Eligibility for ENGL 68</i> Care and management of cats. Includes breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding, and housing.</li> <li>AGPE 73 — Tropical and Coldwater Fish Management 2 Units Degree Applicable</li> <li>64 hours lecture Advisory: Eligibility for ENGL 68</li> <li>Care and keeping of marine and freshwater aquarium fishes, plants, and invertebrates. Includes guidance on setting up aquariums, choosing compatible specie</li></ul> | <ul> <li>AGPE 74 — Reptile Management</li> <li>2 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>Advisory: Eligibility for ENGL 68</li> <li>Care and keeping of reptiles and amphibians, including snakes, lizards,<br/>turtles, tortoises, newts, salamanders and frogs. Includes identification<br/>and characteristics of reptiles commonly kept as pets. Guidance<br/>regarding the housing, feeding, health maintenance, breeding and<br/>raising of reptiles will be offered.</li> <li>AGPE 76 — Aviculture - Cage and Aviary Birds</li> <li>3 Units<br/>Degree Applicable</li> <li>54 hours lecture</li> <li>Presents cage and aviary birds marketed in the wholesale and retail pet<br/>trade, including identification, nutrition, breeding, disease prevention<br/>and control, aviary construction and providing the proper environment.<br/>Includes information on psittacines, soft bills, finches, game birds,<br/>poultry and ornamental waterfowl.</li> <li>AIR CONDITIONING AND REERIGERATION</li> <li>AIR C10 — Technical Mathematics in Air<br/>Conditioning and Refrigeration</li> <li>Degree Applicable</li> <li>27 hours lecture</li> <li>27 hours lecture</li> <li>27 hours lab</li> <li>Develops mathematical skills required for the study and application of<br/>air conditioning and refrigeration including measurements and<br/>equations applied to heat loads, air distribution, electricity, and the<br/>design of air conditioning and refrigeration equipment.</li> <li>AIRC 11 — Welding for Air Conditioning and Refrigeration 2 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> <li>54 hours lab</li> <li>Fundamentals of welding related to the field of air conditioning and<br/>refrigeration with emphasis on the sterile techniques and skills required<br/>for joining copper refrigerant lines and the procedures for light<br/>fabrication.</li> <li>AIRC 12 — Air Conditioning Codes and Standards</li> <li>S Units<br/>Degree Applicable</li> <li>54 hours lecture</li> <li>S4 hours lecture</li> <li>Building codes and sta</li></ul> |
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| ■ AIRC 20 — Refrigeration Fundamentals 4 Units<br>Degree Applicable<br>48 hours lecture<br>71 hours lab<br>Principles of mechanical refrigeration based on the refrigeration cycle<br>and associated mechanical components. Develops skills for interpreting<br>service gauge pressures and sensible temperatures, system dehydration<br>techniques, and the safe handling and containment of refrigerants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AIRC 32A — Air Properties and Measurement Degree Applicable Thours 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 67 — Energy Management 4 Units<br>Degree Applicable<br>72 hours lecture<br>Principles and practical applications for energy cost reduction and<br>strategies. Emphasis on the use of Building Automation Systems to<br>achieve control over energy costs. Includes theory for sustainable Green<br>Building Technologies with introduction to Energy Star Buildings and<br>LEED programs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| AIRC 25 — Electrical Fundamentals for Air<br>Conditioning and Refrigeration       5 Units         Degree Applicable       66         66 hours lecture       54 hours lab         Electrical principles and practices used in air conditioning, refrigeration,<br>and heat pump systems as applied to the development and<br>interpretation of schematics and the sequential approach to wiring<br>circuits including power supplies, motors, and controls. Develops skills<br>for designing electrical circuits, and electrical trouble shooting.         AIRC 26 — Gas Heating Fundamentals       2 Units         Degree Applicable       26         36 hours lecture       Advisory: AIRC 12 and AIRC 25         Theory, operation, and application of natural gas and propane heating<br>systems used in residential and light commercial heating installations<br>including the properties of fuel gasses, gas combustion, furnace<br>construction, pilot proving devices and ignition systems.         AIRC 30 — Heat Load Calculations and Design       4 Units         Degree Applicable       72 hours lecture         Advisory: AIRC 20 taken prior       Heat load of the structure. Heat<br>load calculation software will be explored and used to aid in the<br>process.         MARC 31 — Commercial Electrical for Air<br>Conditioning and Refrigeration       4 Units         Degree Applicable       54 hours lab         54 hours lab       24 then prior         Fleetrical control of commercial air conditioning and refrigeration<br>equipment emphasizing time clocks, defrost, three phase transformers,<br>three phase | dew point temperatures, and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and sensible and latent heat processes.         Image: Altrophysical and temperatures and temperatur | <ul> <li>AIRC 95 — Work Experience in Air Conditioning 1 to 4 Units and Refrigeration Degree Applicable (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</li> <li>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.</li> <li>AIRT 41 — Aircraft Recognition and Performance 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23</li> <li>Designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA). Students will learn to recognize the distinctive features of aircraft, identify types of aircraft, classify aircraft as to FAA category and class, and analyze aircraft for performance characteristics required for air traffic control separation. Commercial Pilot majors are encouraged to take the class as an elective course.</li> <li>AIRT 42A — Terminal Air Traffic Control 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23 and AIRT 41</li> <li>Designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA). Students will learn about aircraft operation. Commercial Pilot majors are encouraged to take the class as an elective course.</li> </ul> |

| AIRT 42B — Enroute Air Traffic Control 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AIRCRAFT MAINTENANCE TECHNOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ■ AIRM 70B — Aircraft Maintenance Electricity 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Degree Applicable, CSU<br>54 hours lecture<br><i>Advisory: AERO 23 and AIRT 41</i><br>Enroute air traffic control operations in the National Airspace System.<br>Includes radar and non-radar separation rules, enroute air traffic control<br>clearances, emergencies and search and rescue, and future air traffic<br>control technologies. This course is designed for students who want to<br>become air traffic controllers for the Federal Aviation Administration<br>(FAA).<br><b>AIRT 43 — Air Traffic Control Team Skills</b><br>Degree Applicable, CSU | <ul> <li>AIRM 65A — Aircraft Powerplant Maintenance Technology 13 Units<br/>Degree Applicable, CSU</li> <li>108 hours lecture</li> <li>376 hours lab</li> <li>Theory and overhaul of aircraft reciprocating and turbine powerplants.<br/>Approved and required for the FAA powerplant certification and<br/>Airframe and Aircraft Powerplant Maintenance Technology major.</li> <li>AIRM 65B — Aircraft Powerplant Maintenance Technology 13 Units<br/>Degree Applicable, CSU</li> <li>108 hours lecture<br/>376 hours lab</li> </ul> | and Electronics<br>Degree Applicable<br>36 hours lecture<br>72 hours lab<br><i>Advisory: AIRM 72, AIRM 73 (May be taken concurrently)</i><br>Basic principles of alternating current, terminology, units and circuit<br>arrangements, alternators, inverters and related controls, derating of<br>switches and circuit breakers, capacitors, inductors, transistors, cathode<br>ray tubes, digital electronics, microprocessors, computers, power<br>distribution systems for large aircraft. Approved by the FAA and required<br>for the Airframe and Aircraft Powerplant Maintenance Technology<br>major.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul> <li>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.     </li> <li>AIRT 47 — Work Experience in Air Traffic Control         1 Unit     </li> </ul>                                                                                                                       | Reciprocating and turbine engine systems and components. Approved<br>and required for the FAA powerplant certification and Airframe and<br>Aircraft Powerplant Maintenance Technology major.<br><b>AIRM 66A — Airframe Maintenance Technology</b><br>13 Units<br>Degree Applicable, CSU<br>108 hours lecture<br>376 hours lab                                                                                                                                                                                                         | ■ AIRM 71 — Aviation Maintenance Science 6 Units<br>Degree Applicable<br>108 hours lecture<br>Federal aviation regulations, interpretation of aircraft drawings, basic<br>physics, technical mathematics, and aircraft weight and balance<br>computations. FAA approved course required of all aircraft powerplant<br>and airframe maintenance technology majors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 hours lab<br><i>Prerequisite: Compliance with Work Experience regulations as designated</i><br><i>in the College Catalog</i><br>On-the-job experience in an approved FAA work station. A minimum of<br>75 paid clock hours or 60 non-paid clock hours per semester is required<br>for each one unit of credit. It is recommended that the hours per week<br>are equally distributed throughout the semester. Students who repeat                         | 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.<br>■ AIRM 66B — Airframe Maintenance Technology 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Airframe systems and components. Approved and required for the FAA                                                                                                                       | <ul> <li>AIRM 72 — Aviation Materials and Processes</li> <li>1.5 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> <li>36 hours lab</li> <li>Advisory: AIRM 70B, AIRM 73</li> <li>An FAA approved course covering aviation materials, non-destructive<br/>testing, basic heat-treating and an introduction to machine tool<br/>operation.</li> <li>AIRM 73 — Aviation Welding</li> <li>1.5 Units</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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.                                                                                                                | and required airframe certification and the Airframe and Aircraft Powerplant Maintenance Technology major.  AIRM 70A — Aircraft Maintenance Electricity and Electronics Degree Applicable 36 hours lecture 72 hours lab Advisory: AIRM 71 Basic electrical theory including units, terminology, applications of Denvis units and event the invited device and hed evid                                                                                                                                                                | Degree Applicable Degree Applicable Rours lab |
| ■ AIRT 55 — Terminal Radar Approach Control Laboratory 1 Unit<br>Degree Applicable<br>(May be taken four times for credit)<br>54 hours lab<br>Advisory: AIRT 51 and AERO 30 taken prior or concurrently<br>Simulation of a radar approach control facility concentrating on<br>approach and departure procedures using appropriate phraseology,<br>flight progress strip markings and radar separation standards. Students<br>who repeat this course will improve skills through further instruction<br>and practice.                                            | Ohm's Law in series and parallel circuits, nickel cadmium and lead acid<br>storage batteries, generators and related control circuits, electrical<br>wiring practices, and electrical measuring instruments construction and<br>use. Approved by the FAA and required for the Airframe and Aircraft<br>Powerplant Maintenance Technology Major.                                                                                                                                                                                       | Degree Applicable<br>(May be taken for Pass/No Pass only)<br>90 hours lab<br><i>Prerequisite: AIRM 65A and AIRM 65B or AIRM 66A and AIRM 66B</i><br>Combines aircraft maintenance experience in addition to classroom<br>instruction for college credit. Two units of credit will be earned as a<br>result of 120 unpaid or 150 paid work hours. The employer/evaluator<br>will have the student perform aircraft maintenance work under direct<br>supervision at a maintenance facility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Maintenance Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AIRM 92A — Airframe Maintenance Technology 3 Units     Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                       | ■ AIRM 96A — Aircraft Powerplant Maintenance Technology 3 Units<br>Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>27 to 54 hours lab<br>Advisory: AIRM 65 A/B, or AIRM 66 A/B, or AIRM 90-93 A/B, or AIRM 95-<br>98 A/B, or equivalent<br>Additional lab instruction for students needing FAA required hours to<br>complete a training certificate or required remediation of program                                                                                                                                                                                                                                                                                                                                                                                    | 36 hours lecture<br>72 hours lab<br><i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i><br>Aircraft hydraulic and pneumatic power systems, landing gear and<br>wheel and brake systems. FAA approved. Approved by the FAA and<br>required for the Airframe and Aircraft Powerplant Maintenance<br>Technology major.                                                                                                                                 | 36 hours lecture<br>72 hours lab<br><i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i><br>Aircraft turbine engine history, construction, thrust formulas and turbine<br>engine types. Approved by the FAA and required for the Airframe and<br>Aircraft Powerplant Maintenance Technology Major.Required for FAA<br>certification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| modules or completion of aboratory assignments. Students who repeat<br>this course will improve skills through further instruction and practice.<br><b>AIRM 90A — Airframe Maintenance Technology</b><br>3 Units<br>Degree Applicable<br>36 hours lecture<br>72 hours lab<br>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73                                                                                                                                                                                                                                                                                                                                                                                                                        | ■ AIRM 92B — Airframe Maintenance Technology 3 Units<br>Degree Applicable<br>36 hours lecture<br>72 hours lab<br><i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i><br>Aircraft warning systems, aircraft instrument systems and aircraft fuel<br>storage and transfer systems. Approved by the FAA and required for the<br>Airframe and Aircraft Powerplant Maintenance Technology Major.                                                         | ■ AIRM 96B — Aircraft Powerplant Maintenance Technology 3 Units<br>Degree Applicable<br>36 hours lecture<br>72 hours lab<br><i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i><br>Propeller theory, nomenclature, application, constant speed devices, and<br>propeller controls. Approved by the FAA and required for the Airframe<br>and Aircraft Powerplant Maintenance Technology Major. Required for                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A FAA approved course covering aircraft flight, flight control and construction methods and procedures.<br><b>AIRM 90B — Airframe Maintenance Technology 3 Units</b> Degree Applicable 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Aircraft structural designs, station numbers, aviation nomenclature and definitions. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.                                                                                                                                                                                                                                                                            | <ul> <li>AIRM 93A — Airframe Maintenance Technology 3 Units<br/>Degree Applicable</li> <li>6 hours lecture</li> <li>72 hours lab</li> <li>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</li> <li>A FAA aproved course coveing aircraft cabin heating and cooling,<br/>communication and navigation systems, and ice and rain control<br/>systems in small and large aircraft.</li> <li>AIRM 93B — Airframe Maintenance Technology 3 Units</li> </ul> | FAA certification. <b>AIRM 97A</b> — Aircraft Powerplant Maintenance Technology 3 Units<br>Degree Applicable          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<br>detection/suppression systems used in small and large aircraft. Includes<br>engine starting systems and electrical power generating devices.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ul> <li>AIRM 91A — Airframe Maintenance Technology</li> <li>3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>72 hours lab</li> <li>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</li> <li>Aircraft wood structures, their coverings and finishes. Approved by the<br/>FAA and required for the Airframe and Aircraft Powerplant Maintenance<br/>Technology major.</li> <li>AIRM 91B — Airframe Maintenance Technology</li> <li>3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>72 hours lab</li> <li>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73<br/>Metals and composite materials used in aircraft construction,<br/>maintenance, and repair. Approved by the FAA and required for the</li> </ul> | Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73<br>A FAA approved course covering piston powerplant theory. Includes<br>calculations and construction methods.<br><b>AIRM 95B — Aircraft Powerplant Maintenance Technology 3 Units</b>                                                                                                                                                                                                                 | <ul> <li>AIRM 97B — Aircraft Powerplant Maintenance Technology 3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>72 hours lab</li> <li>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</li> <li>Reciprocating engine and turbine engine fuels, fuel metering devices,<br/>and system operation. Approved by the FAA and required for the<br/>Airframe and Aircraft Powerplant Maintenance Technology a Units<br/>Degree Applicable</li> <li>AIRM 98A — Aircraft Powerplant Maintenance Technology 3 Units<br/>Degree Applicable</li> <li>6 hours lecture</li> <li>72 hours lab</li> <li>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</li> <li>Reciprocating and turbine engine ignition system theory and operation.<br/>Approved by the FAA and required for the Airframe and Aircraft<br/>Powerplant Maintenance Technology major.</li> </ul> |
| Airframe and Aircraft Powerplant Maintenance Technology major.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Degree Applicable<br>36 hours lecture<br>72 hours lab<br><i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i><br>A FAA approved course covering piston engine overhaul, inspection, and<br>troubleshooting procedures.                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

■ AIRM 98B — Aircraft Powerplant Maintenance Technology 3 Units AD 6 — Dual Diagnosis 3 Units AD 14 — Advanced Internship/Seminar 4 Units Degree Applicable, CSU Degree Applicable, CSU Degree Applicable 36 hours lecture 54 hours lecture (May be taken for Pass/No Pass only) 72 hours lab Overview of the complex interactions of mental disorders and chemical 27 hours lecture Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 dependency. Reviews and examines the key areas involving dual 126 hours lab Reciprocating and turbine engine lubricants and lubricating systems. diagnosis: definition, diagnosis, treatment and aftercare. Advisory: AD 10 and AD 13 The second of a two-semester sequence in which the student applies Approved by the FAA and required for the Airframe and Aircraft AD 8 — Group Process and Leadership 3 Units Powerplant Maintenance Technology major. the values, concepts and skills gained from previous courses to the Degree Applicable actual process of helping chemically dependent persons. ALCOHOL DRUG COUNSELING 54 hours lecture Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or AMERICAN LANGUAGE ■ AD 1 — Alcohol/Drug Dependency 3 Units concurrently Degree Applicable, CSU AMLA 215 — Accent Reduction 2 Units Introduces the theory and practice of group counseling, the group 54 hours lecture Not Degree Applicable process and dynamics of group interaction. (May be taken for option of letter grade or Pass/No Pass) Presents an overview of alcohol and chemical dependencies and ■ AD 9 — Family Counseling 3 Units ramifications. Explores the impact these dependencies have upon the 36 hours lecture individual's social, psychological, economic, physiological well-being, Degree Applicable Pronunciation and listening for non-native speakers with emphasis on 54 hours lecture community and family concerns. Examines the "myths," images, and articulation, stress and intonation patterns, and listening. Students will Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or stereotypes about substances and substance abusers. Includes analyze individual pronunciation strengths and weaknesses. concurrently familiarization with terms. AMLA 225 — American Language 2 Units Introduces the theory and practice of family counseling. Topics include, AD 2 — Physiological Effects of Alcohol/Drugs Interpersonal Communication 3 Units family systems and dynamics, effects of chemical dependency, and Not Degree Applicable Degree Applicable, CSU counseling techniques. (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 36 hours lecture ■ AD 10 — Client Record and Documentation 1.5 Units Examines in-depth the physiological effect of alcohol and other drugs Enhances ability of non-native speakers to communicate in everyday Degree Applicable on the human body. Includes aspects of tolerance, habituation, cross tolerance and synergistic effect. 27 hours lecture and academic situations. Emphasis on grammatical accuracy and sophisticaton as well as confidence in communications in pesonal and Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or ■ AD 3 — Chemical Dependency: Intervention, **3 Units** concurrently professional settings. **Treatment and Recovery** Identify documentation methods required by government regulatory Degree Applicable, CSU AMLA 235 — American Language Formal Speaking 2 Units bodies in clinical records. Emphasis on biopsychosocial history. 54 hours lecture Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) Examines and analyzes the tools and techniques necessary in moving ■ AD 11 — Techniques of Intervention and Referral 3 Units the chemically dependent individual into the treatment process: the Degree Applicable 36 hours lecture Advisory: Eligibility for AMLA 41W varying types of treatment programs, and the essentials of effective 54 hours lecture Enhances the ability of non-native speakers to listen effectively and recovery. Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently speak formally in a variety of situations. Emphasis is on note-taking, AD 4 — Issues in Domestic Violence 3 Units Study and practice techniques used for crisis and beginning counseling, outlining, organizing speeches, and verbal articulation of ideas. **Degree Applicable** intake interviewing and referral. Using an experiential format, AMLA 24 — Idiomatic English 54 hours lecture 2 Units participants will learn and practice skills in attentive listening, Examines the history, law and psychology of domestic violence; Not Degree Applicable recognizing and responding to different levels of client communication. cultural/social aspects; relationship to substance abuse. (May be taken for option of letter grade or Pass/No Pass) AD 13 — Internship/Seminar 4 Units 36 hours lecture ■ AD 5 — Chemical Dependency: Prevention 1.5 Units Degree Applicable, CSU Intermediate course in the study of idiomatic language, including and Education common American idioms and proverbs, as used in everyday language (May be taken for Pass/No Pass only) Degree Applicable, CSU 27 hours lecture situations 27 hours lecture 126 hours lab Reviews and examines drug prevention effectiveness, at both the AMLA 31R — American Language Basic Reading 4 Units Advisory: AD 1, AD 2, AD 3, AD 4, AD 5, AD 6, and six units of Restricted Electives private and public level. Appraises personal attitudes, past and present, Not Degree Applicable taken prior and AD 8, AD 9, AD 10, AD 11 taken prior or concurrently and their influence on societal norms. Evaluates current prevention (May be taken for option of letter grade or Pass/No Pass) The first of a two-semester sequence which places students in programs and the necessary steps for developing, funding and 72 hours lecture Alcohol/Drug Abuse agencies and organizations. This first semester managing a program. Prerequisite: Satisfactory score on appropriate Reading Placement Test or emphasizes growth in self-awareness and professionalism, interviewing successful completion of noncredit ESL Level 4 skills and group process skills.

Basic reading and vocabulary for non-native speakers.

| ■ AMLA 32R — American Language Intermediate Reading 4 Units<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: Successful completion of AMLA 31R, or satisfactory score on<br>appropriate Reading Placement Test, or successful completion of<br>noncredit ESL levels 5, 6, or VESL<br>Intermediate reading and vocabulary for non-native speakers. | ■ AMLA 57 — American Language Verb Review I 1 Unit<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>Concentrates on verb tense, form, and use for non-native learners of<br>English. Practice in present, past, and future verb tense forms, meaning,<br>and use in both spoken and written English, with special emphasis on<br>writing for college courses. | ANAT 10B — Introductory Human Physiology 4 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>54 hours lab<br>Prerequisite: ANAT 10A or ANAT 35<br>Advisory: CHEM 10 or CHEM 40<br>An integrated study of the function of and interaction between the<br>skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory<br>(including electrolyte and acid-base balance), endocrine, and |
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| ■ AMLA 33R — American Language Advanced Reading 4 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: Successful completion of AMLA 32R or satisfactory score on<br>appropriate Reading Placement Test<br>Advanced reading and vocabulary for non-native speakers.                                                                                 | ■ AMLA 58 — American Language Verb Review II 1 Unit<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>Advanced work on modals, passive voice, passive modals, and<br>conditionals for non-native English students. Exercises and writing<br>practice will emphasize improved verb usage in writing.                                                            | reproductive systems (including human genetics and embryology).  ANAT 35 — Human Anatomy 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab Prerequisite: BIOL 1 or BIOL 4 or BIOL 4H                                                                                                                                                                                                          |
| ■ AMLA 41W — American Language Basic Writing 4 Units<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: Satisfactory score on the English Placement Test or successful<br>completion of noncredit ESL Level 4<br>Advisory: AMLA 31R taken prior or concurrently                                                                                     | AMLA 59 — American Language Prepositions 1 Unit<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>Spoken and written practice in prepositions for non-native English<br>learners. Students will analyze prepositions and idiomatic expressions<br>through reading and will apply their knowledge to written work.                                              | Structure of the organ systems at the gross, subgross, and microscopic<br>levels based on human material and dissection of the cat. Designed to<br>serve as an introduction to vertebrate embryology.<br>ANAT 36 — Human Physiology 5 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>108 hours lab                                                                                                |
| Basic grammar and writing for non-native speakers.<br><b>AMLA 42W</b> — American Language Intermediate Writing 4 Units<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: Satisfactory score on the English Placement Test or successful                                                                                                            | AMLA 60 — American Language Verb Review III 1 Unit<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>Advanced work on gerunds, infinitives and participles for non-native<br>English students. Exercises and writing practice will emphasize                                                                                                                   | 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.         Image: ANAT 40A — Human Prosection       2 Units          |
| completion of AMLA 41W or noncredit ESL level 5 or 6 or VESL<br>Advisory: AMLA 32R taken prior or concurrently<br>Intermediate grammar and writing for non-native speakers.<br>AMLA 43W — American Language Advanced Writing<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)                                                                                                          | improved verb 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 Spoken and written practice in noun, verb, adjective, and adverb word                                                                                                                                                                     | Degree Applicable, CSU<br>(May be taken four times for credit)<br>108 hours lab<br><i>Prerequisite: ANAT 35</i><br>Techniques for human prosection. Regional exploration of superficial<br>and deep human muscles at the gross level. Anatomy 40A and 40B<br>must be taken in sequence in order to receive credit for college level                                                                           |
| 72 hours lecture<br>Prerequisite: Satisfactory score on the English Placement Test or successful<br>completion of AMLA 42W<br>Advisory: AMLA 33R taken prior or concurrently<br>Advanced grammar and writing for non-native speakers.                                                                                                                                                                                       | forms for non-native English students.  ANATOMY AND PHYSIOLOGY  ANAT 10A — Introductory Human Anatomy 4 Units Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                  | prosection.  ANAT 40B — Human Prosection  2 Units Degree Applicable, CSU 108 hours lab Prerequisite: ANAT 40A                                                                                                                                                                                                                                                                                                 |
| ■ AMLA 56 — American Language Nouns and Articles 1 Unit<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>Concentrates on count and non-count nouns, article usage and other<br>determiners for non-native learners of English. Writing practice and<br>exercises will emphasize correct usage of these structures in writing and<br>speaking.                   | 54 hours lecture<br>54 hours lab<br>A systematic study of the macroscopic and microscopic structures of the<br>human body. Emphasis on cell structures, skeletal, muscular, respiratory,<br>circulatory, nervous, digestive, excretory, endocrine, and reproductive<br>systems.                                                                                                                                           | Techniques for human prosection. Regional exploration of the human<br>organ systems at the gross level with emphasis on the organs, blood<br>vessels and nerves of the body cavities.                                                                                                                                                                                                                         |

| ANAT 50 — Basic Anatomy and Physiology 3 Units<br>Degree Applicable<br>54 hours lecture<br>Introduction to human anatomy and physiology by systems, with brief<br>descriptions of biochemistry, cell biology, and molecular biology. Upon<br>completion, students will understand normal functions of major human<br>organ systems and be able to recognize pathologies.<br>ANTHROPOLOGY                                                                                                                                                                                                                           | ANTH 5 — Principles of Cultural Anthropology 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>The anthropological approach to the study of human behavior from a<br>cross cultural, comparative, and an evolutionary perspective. An<br>exploration into the languages, economics, sociopolitical systems, religions,<br>and world views of diverse world cultures. A technical presentation is<br>stressed as this course is designed for Social Sciences majors.                                                                                                                                                              | ARAB 2 — Continuing Elementary Arabic 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br><i>Prerequisite: ARAB 1 or equivalent</i><br>Continues to develop elementary reading, writing, and speaking skills in<br>Modern Standard Arabic. Emphasizes verbs, word patterns, and<br>vocabulary building; introduces short authentic texts. Includes some<br>exposure to Formal Spoken Arabic.                                                                                                                                                                                          |
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| ANTH 1 — Biological Anthropology 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>The evolutionary biology of primates with particular emphasis on<br>hominid evolution and behavior. The genetic and evolutionary<br>mechanisms underlying evolution, human variation, primate field<br>studies, and the hominid palentological record are stressed.<br>ANTH 1H — Biological Anthropology - Honors 3 Units                                                                                                                                            | ANTH 22 — General Cultural Anthropology 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>An introductory course to explore the nature of culture and how cultural<br>anthropologists study cultural phenomena such as language,<br>personality, subsistence, economics, social and political organization,<br>marriage, kinship systems, religion, the arts, and culture change. A<br>substantial amount of case material will be drawn from at least three of<br>the following: African Americans, indigenous peoples of the United<br>States, Asian Americans, Chicano/Latino Americans, and European                         | ARCHITECTURAL TECHNOLOGY<br>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.                                                                                                                                                                                 |
| Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>The evolutionary biology of primates with particular emphasis on<br>homonid evolution and behavior. The genetic and evolutionary<br>mechanisms underlying evolution, human variation, primate field<br>studies, and the hominid palentological record are stressed. This<br>enriched course is designed for the honors program allowing, for<br>example, more student directed discussions and more extensive writing<br>assignments. Students may not receive credit for both ANTH 1 and<br>ANTH 1H. | Americans. This course may meet the cultural diversity requirement at transfer universities.  ANTH 30 — The Native American Begree Applicable, CSU, UC S4 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                                                                                                                               | <ul> <li>ARCH 11 — Architectural Drawing 3 Units<br/>Degree Applicable, CSU, UC</li> <li>36 hours lecture</li> <li>71 hours lab<br/>Advisory: Eligibility for MATH 51<br/>Architectural drawing techniques, including graphic standards, scales,<br/>orthographic, paraline, and perspective projections.</li> <li>ARCH 12 — Architectural Materials and Specifications 4 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> </ul>                                                                                                                                                |
| <ul> <li>ANTH 1L — Biological Anthropology Laboratory 1 Unit<br/>Degree Applicable, CSU, UC</li> <li>54 hours lab<br/><i>Corequisite: ANTH 1 or ANTH 1H (may have been taken previously)</i><br/>Scientific study of human evolution. Students will generate and test<br/>hypotheses using the techniques and materials of biological<br/>anthropology. Includes genetic observations and calculations,<br/>osteological techniques and measurements, and primate behavior<br/>observations. One field trip to a zoo for primate observation is required.</li> <li>ANTH 3 — Archaeology 3 Units</li> </ul>         | Degree Applicable, CSU<br>(May be taken four times for credit)<br>36 hours lecture<br>To offer selected students recognition for their academic interests and<br>ability and the opportunity to explore their disciplines to greater depth,<br>the various departments from time to time offer Special Projects<br>courses. The content of each course and the methods of study vary from<br>semester to semester and depend on the particular project under<br>consideration. Students repeating this course will make individual<br>contracts of a more advanced nature with the instructor to ensure that<br>proficiencies are enhanced. | <ul> <li>54 hours lab<br/>Advisory: Eligibility for MATH 51<br/>Building materials and specifications used in architecture and<br/>construction. Includes a lab component of common building material<br/>applications. Field trips are required.         <ul> <li>ARCH 13 — Architectural Illustration</li> <li>3 Units<br/>Degree Applicable, CSU, UC</li> <li>36 hours lecture<br/>71 hours lab<br/>Advisory: ARCH 11<br/>Architectural and interior illustration including perspective drawing,<br/>sketching, shades and shadows, entourage, and color application</li> </ul> </li> </ul> |
| Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Introduction to the aims, methods and ethics of archaeological research<br>and their application to the archaeological record, in contrast to popular<br>depictions of archaeology. Topics include the evolution of culture from<br>the earliest stone toolmakers to the primary civilizations of the Old and<br>New Worlds, with emphasis on the invention and spread of agriculture<br>and the impact of this change on prehistoric cultures.     | ARABIC<br>ARAB 1 — Elementary Arabic 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Intended for students with little or no previous exposure to Arabic.<br>Begins to develop elementary reading, writing, and speaking skills in<br>Modern Standard Arabic. Focuses on mastery of Arabic script,<br>pronunciation, simple grammatical structures, and basic vocabulary,<br>along with an introduction to Arab culture.                                                                                                                                                                                                       | sketching, shades and shadow, encodrage, and color application         utilizing various media and development of project portfolio. <b>ARCH 14 — Building and Zoning Codes 3 Units</b> Degree Applicable, CSU         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.                                                              |

| <ul> <li>Degree Applicable (SU)</li> <li>So hours lecture</li> <li>Degree Applicable (SU)</li> <li>ARCH 12 - Rek1 42, and eligibility for MAHH 51</li> <li>Advanced architectural CAD and provide actual on the pole specificable, (SU), UE</li> <li>So hours lecture</li> <li>Degree Applicable, (SU), UE</li> <li>So hours lecture</li> <li>So hours lectur</li></ul>                                                                                             |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <ul> <li>ARCH 16 — Basic CAD and Computer Application 4 Units<br/>Degree Applicable, GSU, UC<br/>Shours lecture<br/>Shours lab<br/>Advisory: Eligibility for MAHE 31<br/>Basic CAD (Computer Aided Design and Drafting) and computer<br/>Jasic CAD (Computer Aided Design and Drafting (CAD) and Building<br/>Information Modeling (BMI) for architecture, Biological and Drafting (CAD) and Building<br/>Information Modeling (BMI) for architecture allogical and Drafting (CAD) and Building<br/>Information Modeling (BMI) for architectural design and adesign<br/>development. Profilio di 3:D building models and extracted 2:D<br/>dravings velicle bergree Applicable, (CSU, UC<br/>Jasic Valuer<br/>Jasic Valuer<br/>Jours lab<br/>Advisory: ARCH 11 - Architectural Idesign and adesign<br/>perce Applicable, (CSU, UC<br/>Jasic Valuer<br/>Jours lab<br/>Advisory: ARCH 12 - Architectural Idesign and Drafting (CAD) and Building<br/>Information Modeling (BMI) for architectural Basic Algoriter<br/>Thours lab<br/>Advisory: ARCH 23 - Architectural Idesign projects in<br/>Advisory: ARCH 23 - Architectural Idesign projects in<br/>Advisory: ARCH 23 - Architectural Idesign projects in<br/>dvalues (cruer - Design II - Architectural Idesign projects in<br/>Advisory: ARCH 23 - Architectural Idesign projects, Including porticels, ECU, UC<br/>Advisory: ARCH 23 - Architectural</li></ul>                                     | Degree Applicable, CSU<br>36 hours lecture<br>72 hours lab<br><i>Advisory: ARCH 11, ARCH 12, ARCH 14, and eligibility for MATH 51</i><br>Methods and techniques used in the development of architectural<br>construction documents for light frame structures (Type V construction)<br>including construction theory, practice, and working drawings. Portfolio | Degree Applicable<br>36 hours lecture<br>72 hours lab<br><i>Advisory: ARCH 15, ARCH 18 or equivalent experience</i><br>Advanced architectural CAD drawings. Portfolio of working drawing and<br>presentation applications of integrated 2-D and 3-D CAD models will be                                                                                                                                                                                                                                       | Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 to 150 hours lab<br><i>Prerequisite: Compliance with Work Experience regulations as designated</i><br><i>in the College Catalog</i><br>This course is designed to provide actual on-the-job experience in                                                                                                              |
| <ul> <li>ARCH 18 — Architectural CAD and BIM</li> <li>BARCH 18 — Architectural CAD Industration and Animation 3 Units</li> <li>Degree Applicable, CSD</li> <li>So fours lecture</li> <li>Thours lab</li> <li>Advisory: ARCH 10 ar ARCH 16</li> <li>So Computer Aided Design and Drafting (CAD) and Building</li> <li>Information Modeling (BIM) for architectural design and design</li> <li>development. Portfolio of 3-D building models and extracted 2-D</li> <li>drawings will be produced.</li> <li>ARCH 29 — Design IV - Advanced Project</li> <li>So hours lecture</li> <li>Degree Applicable, CSU, UC</li> <li>So hours lecture</li> <li>Degree Applicable, CSU, UC</li> <li>ARCH 23 — Architectural design projects.</li> <li>Indudes graphic technique, design process, site analysis, presentation</li> <li>drawings will be produced.</li> <li>ARCH 23 — Architectural Design B Units</li> <li>Degree Applicable, CSU, UC</li> <li>ARCH 23 — Architectural Design projects.</li> <li>Indudes graphic technique, design process, site analysis, presentation</li> <li>Degree Applicable, CSU, UC</li> <li>ARCH 23 — Architectural presentation projects, including and onstruction principles. Portfolio will be produced.</li> <li>ARCH 23 — Architectural presentation projects, including and preparation of architecture prior</li> <li>Ankis ory: ARCH 10, ARCH 11 taken prior</li> <li>Ankis ory: ARCH 23 — World Architecture I</li> <li>So hours lecture</li> <li>ARCH 23 — World Architecture II</li> <li>Degree Applicable, CSU, UC</li> <li>ARCH 23 — Architectural presentation projects, including and preparation of architectural presentation projects, including techniques, for apid visualization. Emphasizes and develops erectific in.</li> <li>ARCH 23 — World Architecture II</li> <li>Degree Applicable, CSU, UC</li> <li>Anors lecture</li> <li>Architecture from indice social presentation projects, including bevelopment.</li> <li>AR</li></ul> | <ul> <li>ARCH 16 — Basic CAD and Computer Application<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Advisory: Eligibility for MATH 51</li> <li>Basic CAD (Computer Aided Design and Drafting) and computer<br/>application in architecture, engineering and related fields (including</li> </ul>                      | Degree Applicable, CSU, UC<br>36 hours lecture<br>72 hours lab<br><i>Advisory: ARCH 21, ARCH 23 or equivalent experience</i><br>Application of theory and principles of environmental design as applied<br>to architecture, landscape architecture, urban design, urban planning                                                                                                                                                                                                                             | instruction. A minimum of 75 paid or 60 non-paid clock hours per<br>semester of supervised work is required for each unit of credit. It is<br>recommended that the hours per week be equally distributed<br>throughout the semester. This course is available to students achieving a<br>minimum of 12 units in architecture. Students who repeat this course<br>will improve skills through further instruction and practice. |
| drawings will be produced.       ARCH 29 — Design IV - Advanced Project       3 Units<br>Degree Applicable, CSU, UC       ARCH 29 — Design IV - Advanced Project       3 Units<br>Degree Applicable, CSU, UC       ARCH 29 — Design IV - Advanced Project       3 Units<br>Degree Applicable, CSU, UC       ARCH 29 — Design IV - Advanced Project       3 Units<br>Degree Applicable, CSU, UC       A hours lecture         36 hours lecture       72 hours lab       36 hours lecture       72 hours lab       36 hours lecture       36 hours lecture       36 hours lecture       71 hours lab       36 hours lecture       71 hours lab       36 hours lecture       71 hours lab       36 hours lecture       36 hours lecture       36 hours lecture       71 hours lab       36 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                           | <ul> <li>ARCH 18 — Architectural CAD and BIM</li> <li>3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>71 hours lab</li> <li>Advisory: ARCH 11 or ARCH 16</li> <li>3-D Computer Aided Design and Drafting (CAD) and Building<br/>Information Modeling (BIM) for architectural design and design</li> </ul>                                      | Degree Applicable, CSU<br>36 hours lecture<br>71 hours lab<br><i>Advisory: ARCH 18</i><br>Architectural CAD 3-D illustration, rendering and animation. Virtual<br>walk-through and fly-through videos of interior and exterior 3-D                                                                                                                                                                                                                                                                           | Degree Applicable, CSU<br>36 hours lecture<br>71 hours lab<br>Contemporary and traditional approaches to sketching objects and the<br>human figure using drawing techniques for rapid visualization.<br>Emphasizes and develops perceptual and technical skills for capturing                                                                                                                                                  |
| drawings and construction principles. Portfolio will be produced.       Degree Applicable, CSU, UC         Image: ARCH 23 — Architectural Presentations       3 Units         Degree Applicable, CSU, UC       54 hours lecture         Degree Applicable, CSU, UC       54 hours lecture         36 hours lecture       54 hours lecture.         72 hours lab       54 hours lecture.         Advisory: ARCH 10, ARCH 11 taken prior       11 taken prior         Analysis and preparation of architectural models, oral presentation techniques, board layouts using hand-drawn and computer-aided techniques, board layouts using hand-drawn and computer-aided techniques, board layouts using hand-drawn and computer-aided techniques and development of modern architecture from the Renaissance to the       3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | drawings will be produced.<br><b>ARCH 21 — Design II - Architectural Design</b><br>3 Units<br>Degree Applicable, CSU, UC<br>36 hours lecture<br>72 hours lab<br><i>Advisory: ARCH 10, ARCH 11, ARCH 13</i><br>Application of methods and theory used in architectural design projects.                                                                          | Degree Applicable, CSU<br>36 hours lecture<br>72 hours lab<br><i>Advisory: ARCH 23, ARCH 27 or equivalent experience</i><br>Advanced design seminars and complex building design projects in<br>architecture, including portfolio development.<br><b>ARCH 31 — World Architecture I</b><br><b>3 Units</b>                                                                                                                                                                                                    | Degree Applicable<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ANIM 101A (formerly ANIM 101)</i><br>Contemporary and traditional approaches to sketching the human<br>figure using drawing techniques for rapid visualization. Emphasizes and<br>develops elements of design for the purposes of visual communication                                                                                               |
| present day. Influence of environment, religion and socio-economic<br>movements on architecture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | drawings and construction principles. Portfolio will be produced.  ARCH 23 — Architectural Presentations 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         | 54 hours lecture<br>Development of architecture including ancient Egypt, Europe through<br>the Middle Ages, and classic civilizations of Asia and the Americas.<br>Influence of geography, religion, and socio- economic movements on<br>architecture.<br><b>ARCH 32 — World Architecture II</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Development of modern architecture from the Renaissance to the<br>present day. Influence of environment, religion and socio-economic | ANIM 101C — Figure Gesture - Design 3 Units<br>Degree Applicable 36 hours lecture 71 hours lab <i>Prerequisite: ANIM 101A</i> Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops personal interpretation, individual expression, and media                                                                                        |

| 36 hours lecture       18         72 hours lab       36         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.       30         Image: Applicable of a compositional integrity through objective analysis and synthesis.       30         Image: Applicable of Animation of Animation of Gram 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.       30         ANIM 108 — Principles of Animation of the creation of expressive line drawings.       30       30         36 hours lecture       71       100       30       30         36 hours lecture       71       100       100       100       100       100       100         36 hours lecture       71       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       < | ANIM 111B — Animal Drawing       1.5 Units<br>Degree Applicable         8 hours lecture       6 hours lab         6 hours lab       interprequisite: ANIM 111A         ontemporary and traditional approaches to sketching animals using<br>lrawing techniques for rapid visualization. Emphasizes and develops<br>lements of design for the purposes of visual communication and<br>torytelling Requires several off-campus field trips.         ANIM 115 — Storyboarding       3 Units<br>Degree Applicable, CSU         6 hours lecture       1 hours lab         brerequisite: ARTD 15A or ANIM 104<br>toryboarding with emphasis on storytelling, cinematography, drawing,<br>nd notation as it relates to the animation industry.         ANIM 116 — Character Development       1.5 Units<br>Degree Applicable         8 hours lecture       6 hours lab         rerequisite: ARTD 15A or ANIM 104<br>echniques for innovation and development of animated characters.<br>Ubservation of details for drawings of character attitude, personality,<br>novement, posing, point-of-view, dialog/mouth positions, body<br>anguage, and development of consistent drawing techniques for model<br>heets.       3 Units         ANIM 117 — Animation Background Layout       3 Units         Theory lab       2 Units         Perequisite: ARTD 15A or ANIM 104       Explicable, CSU         6 hours lab       3 Units         Degree Applicable, CSU       6 hours lab         Perequisite: ARTD 15A or ANIM 104       3 Units         Degree Applicable, CSU | <ul> <li>ANIM 120 — Script Development for Animation 3 Units<br/>Degree Applicable</li> <li>S4 hours lecture</li> <li>Creative and problem solving processes as applied to story and script<br/>development. Scripts screenplays, live action and animated film, and the<br/>practical application of story adaptation to screenplay.</li> <li>ANIM 121 — Nature and History of Animation 3 Units<br/>Degree Applicable, CSU<br/>(May be taken for option of letter grade or Pass/No Pass)</li> <li>S4 hours lecture</li> <li>History of animated film and its relationship to the disciplines of art,<br/>communication, theater, music, literature, film making, philosophy, and<br/>world history. Includes early pioneers through current visionaries, social<br/>influences that affected the development of animated film and the<br/>social impact of the animated product, and the differences between live<br/>action film and inanimate, nonliving objects in a variety of forms such<br/>as two-dimensional, clay, or computer created.</li> <li>ANIM 130 — Introduction to 3-D Computer Animation 3 Units<br/>Degree Applicable, CSU<br/>36 hours lecture</li> <li>Animation of primitive and complex poly-spline meshes<br/>used in environments, and following a story board developed for scene<br/>sequencing are included.</li> <li>ANIM 131 — Introduction to Gaming 3 Units<br/>Degree Applicable, CSU<br/>(May be taken for option of letter grade or Pass/No Pass)</li> <li>36 hours lecture<br/>71 hours lab<br/><i>Prerequisite: GRAP 10</i><br/>The field of game design including the principles, tools, and strategies<br/>for designing various types of games.</li> <li>ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units<br/>Degree Applicable</li> <li>64 hours lecture<br/>71 hours lab</li> <li>71 hours lab</li> <li>71 hours lab</li> <li>71 hours lab</li> <li>72 mours lab</li> <li>73 boylygon modeling and UV polygon texture mapping used in<br/>computer graphic games, TV programs or film. Includes camera<br/>animation with stage and environmental scenes featuring fly-through,<br/>lighting setup and lighting v</li></ul> |
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| <ul> <li>ANIM 134 — Visual Effects I: Dynamics</li> <li>1.5 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> <li>18 hours lab</li> <li>Advisory: ANIM 132</li> <li>Advanced course exploring the animation techniques called dynamics.</li> <li>Covers building material for 3-D objects using bitmaps to create texture<br/>maps and using light effects in 3-D computer environments.</li> <li>ANIM 135 — Visual Effects II: Particle Systems</li> <li>1.5 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul> <li>ANIM 146 — Advanced 3-D Animation 3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>72 hours lab<br/>Advisory: ANIM 132</li> <li>Animation of a pre-selected 3-D dynamic environment project and<br/>development of characteristics and personality of 3-D characters<br/>through animation.</li> <li>ANIM 148 — Demo-Reel</li> <li>1.5 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> </ul> | ARTC 120 — Graphic Design II 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTC 70 or ARTC 100</i><br>Graphic design concepts, theories, and strategies for the design and<br>layout of printed commercial art. Covers typical printed products<br>including advertisements, flyers, brochures, posters, newsletters, books,<br>and catalogs. Focuses on using Adobe InDesign with additional exposure<br>to Photoshop and Illustrator.                                                                                                    |
| 36 hours lab<br>Advisory: ANIM 134<br>Advanced course in the creation of computer animated particle systems<br>that imitate the natural forces of nature, the physical forces of the<br>universe and plasma forces of combustion.<br>ANIM 136 — Animation Environment Layout<br>3 Units<br>Degree Applicable<br>36 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36 hours lab<br>Prerequisite: ANIM 130<br>Production of a demo-reel representative of student interest, strength<br>and skill for entry into animation fields, professional schools or<br>baccalaureate institutions.<br>ANIM 172 — Motion Graphics, Compositing and<br>Visual Effects<br>Degree Applicable, CSU                                                                                                                 | ■ ARTC 140 — Graphic Design III 3 Units<br>Degree Applicable<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTC 70 ir ARTC 100</i><br>Digital illustration, design, skills, and concepts working primarily with<br>vector art. Focuses on using Adobe Illustrator as the primary<br>development tool.                                                                                                                                                                                                                                                                                                                                |
| 71 hours lab<br>Advisory: ANIM 130 and ANIM 132<br>Create a digital 3D environment. Design, model, texture, and light a 3D<br>digital environment for a computer graphics game, TV program or film.<br><b>ANIM 137A</b> — Work Experience in New Digital Media 1-3 Units<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 to 25 hours between the second secon | (May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTC 70</i><br>Elements of motion graphics: design, typography, animation,<br>compositing, visual effects, and editing in a production environment<br>(i.e. TV, Film, DVD, or Web) using industry standard software.<br><b>ANIM 175 — Web Animation With Flash</b><br>3 Units<br>Degree Applicable             | ARTC 160 — Typography 3 Units<br>Degree Applicable<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTC 100</i><br>Design and use of basic letterforms, type families, characteristics,<br>history, and principles of typography in graphic design. Traditional and<br>digital skills for the art of typeface design, typographic layout,<br>expressive typography, and conceptual thinking.                                                                                                                                                                                                                                           |
| <ul> <li>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-job 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.         </li> <li>         ANIM 145 — Advanced 3-D Modeling         3 Units             Degree Applicable         </li> <li>         Aours lab      </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36 hours lecture<br>71 hours lab<br>Prerequisite: ARTC 70 or ARTC 100<br>Principles of animation using Adobe Flash for web and multimedia.<br>ART: ADVERTISING DESIGN/GRAPHICS<br>ARTC 100 — Graphic Design I 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br>Advisory: ARTD 15A, ARTD 20, or PHOT 4                                            | ARTC 165 — Illustration 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>71 hours lab<br><i>Corequisite: ARTD 20 or ARTD 15A or ARTD 17A or ANIM 101 or ANIM 104</i><br><i>(may have been taken previously)</i><br>Introduction to contemporary illustration with an emphasis on story,<br>editorial, and advertising applications. Proper uses of illustrative<br>rendering techniques in traditional drawing and painting media, paper,<br>and their integration to electronic media. Using professional illustration<br>software, peripherals, and color laser printing, students advance to<br>produce more complex illustrations. |
| <i>Advisory: ANIM 132</i><br>An advanced course in 3-D modeling with a focus on designing,<br>modeling, and rigging a character for animation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Contemporary graphic design for the commercial arts industry. Covers<br>technology, creativity, design, and production. Focuses on using Adobe<br>Photoshop to produce effective commercial art. Additional exposure to<br>Adobe Illustrator and other professional production tools.                                                                                                                                            | ■ ARTC 200 — Web Design 3 Units<br>Degree Applicable<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTC 100</i><br>Design, usability, production, and marketing of web site development<br>using contemporary methods including XHTML, CSS, and contemporary<br>tools including Adobe Dreamweaver and Flash. Web-focused multimedia<br>concepts, including animation and video integration are explored.                                                                                                                                                                                                                             |

| ARTC 220 — Graphic Design IV 3 Units<br>Degree Applicable<br>36 hours lecture<br>71 hours lab<br>Prerequisite: ARTC 100<br>Advanced graphic design concepts and skills working with Adobe<br>Photoshop and other graphic design applications.<br>ARTC 240 — Multimedia Design 3 Units<br>Degree Applicable<br>36 hours lecture<br>71 hours lab<br>Prerequisite: ARTC 74 or ARTC 200<br>Multimedia design and development using a variety of professional<br>software and tools. Focus is on the web as the primary, although not<br>exclusive, delivery channel for multimedia. Covers technical skills<br>including intermediate web design, basic video editing, basic sound<br>editing, and basic animation. Covers creative and conceptual skills<br>including intermediate web design, basic video editing, basic sound<br>editing, and basic animation. Covers creative and conceptual skills<br>including interface design, clarity of communication, and user<br>experience.<br>ARTC 280 — Commercial Art Studio - Special Projects 4 Units<br>Degree Applicable<br>(May be taken for Pass/No Pass only)<br>36 hours lecture<br>108 hours leb<br>Prerequisite: Completion of a minimum of 15 semester units in Graphic Design,<br>Illustration, Web Design, Animation, Architectural Design or Computer Graphics.<br>Collaborative, interdisciplinary, teams will research, design, produce, and<br>deliver commercial art projects. Projects will be "real world" and<br>complex in scope, typically involving clients from the college or<br>community.<br>ARTC 290 — Portfolio<br>36 hours leb<br>Prerequisite: Completion of a minimum of 15 semester units in one of the<br>following programs: Graphic Design, Illustration, Animation, Web<br>Design, Architectural Design, Art, Fashion Merchandising, Industrial<br>Design, Industrial<br>Design, Industrial Design, Illustration, Animation, Web<br>Design, Architectural Design, Art, Fashion Merchandising, Industrial<br>Design, Interior Design, Photography or Computer Graphics.<br>Selection, preparation, and assembly of a portfolio, book, or package of<br>works of art, including digital and multimedia formats, that represent<br>individual interests and strengths of studen | 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 120 and ARTC 220 Provides students with on-the-job experience in graphic design, web design, media design, advertising design, illustration or other graphic design related field in an approved work site. 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 experience. <b>ART: BASIC STUDIO ARTS ARTB 1 — Understanding the Visual Arts</b> 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. <b>ARTB 14 — Basic Studio Arts</b> Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Prerequisite: Eligibility for ENGL 68 An entry level course designed for non-art majors emphasizing creative expression through the visual arts. Painting, drawing, printmaking and sculpture are explored to introduce the student through various media to the arts. | <ul> <li>ARTG 21A — Introduction to Exhibition Production 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture<br/>71 hours lab<br/><i>Prerequisite: ARTG 20</i></li> <li>Concepts and hands-on applications of curatorial processes,<br/>management skills, and gallery operations. The professional side of the<br/>arts with emphasis on contemporary art, theories and media will be<br/>explored. Field trips required.</li> <li>ARTG 21B — Intermediate Exhibition Production 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture<br/>71 hours lab<br/><i>Prerequisite: ARTG 21A</i></li> <li>Exhibition planning, research, operation and management. Art as a<br/>profession, with emphasis on historical and contemporary terms,<br/>theories, movements and media in the context of an art exhibition<br/>production. Field trips required.</li> <li>ARTG 22A — Exhibition Design and Art Gallery<br/>Operation Work Experience</li> <li>May be taken four times for credit)</li> <li>To 225 hours lab<br/><i>Prerequisite: ARTG 21B</i></li> <li>Provides on -the-job experience in exhibition design and art gallery<br/>operation at an approved work site related to the classroom-based<br/>learning. A minimum of 75 paid clock hours or 60 non-paid clock hours<br/>per semester is required for each one unit of credit. It is recommended<br/>that the hours per week are equally distributed throughout the<br/>semester. Students who repeat this course will improve skills through<br/>further instruction and practice.</li> <li>Martz 50 — Specialized Studio-Art Studies<br/>2 Units<br/>Degree Applicable, CSU</li> <li>(May be taken four times for credit)</li> <li>18 hours lecture<br/>54 hours lab</li> <li>Prerequisite: Satisfactory completion of all courses within a given art<br/><i>emphasis</i></li> <li>Extended studio experiences supplementary to those available in the<br/>courses within a given art emphasis and allows the student to pursue<br/>more advanced and complex studio projects and experiments. Emphasis<br/>is placed upon the development of an individual contracts of a more<br/>advanced and complex studio project</li></ul> |
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| ADT. THREE DIMENSIONAL STUDIO ARTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| ART: THREE-DIMENSIONAL STUDIO ARTS<br>ARTS 22 — Design: Three-Dimensional 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab Prerequisite: Eligibility for ENGL 68 Develops perception and enhances decision making within the three- dimensional world. Emphasis is placed on concept development and                                                                                                                                                                                                                                   | ■ ARTS 33 — Ceramics: Hand Construction 3 Units<br>Degree Applicable, CSU, UC<br>36 hours lecture<br>72 hours lab<br>Introduction to clay, glazes and firing through projects that are hand<br>built. Emphasis is on developing skills and vocabulary and analysis of<br>form, function, aesthetics and craftsmanship through projects,<br>discussion and oral/written criticism.                                                                                        | ARTS 41A — Sculpture: Life 3 Units<br>Degree Applicable, CSU, UC<br>36 hours lecture<br>72 hours lab<br>Modeling from the human figure with emphasis on composition,<br>gesture, motion and human anatomy as it informs sculptural form.<br>Development of perceptual and technical skills in clay modeling from<br>the human figure.                                                                                                                               |
| artistic expression utilizing principles and elements of three-<br>dimensional design as well as practical experiments with various media.<br><b>ARTS 30A</b> — <b>Ceramics: Beginning I 3 Units</b><br>Degree Applicable, CSU, UC<br>36 hours lecture<br>71 hours lab<br>Clay, glazes and firing through lecture and projects in hand building and<br>on the wheel. Emphasis on developing skills, vocabulary, analysis of<br>form, function and aesthetics through projects, oral and written<br>criticism. Field trip required.                     | <ul> <li>ARTS 34 — The Sculpture Vessel</li> <li>3 Units</li> <li>Degree Applicable, CSU</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>18 hours lecture</li> <li>108 hours lab</li> <li>Prerequisite: ARTS 30A</li> <li>Advisory: ARTS 33</li> <li>Advanced study of the ceramic vessel through the integration of technique, form and content. Field trips required.</li> <li>ARTS 40A — Sculpture: Beginning</li> <li>3 Units</li> </ul> | ARTS 41B — Sculpture: Life 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>36 hours lecture<br>72 hours lab<br><i>Prerequisite: ARTS 41A</i><br>Sculptural study of the human figure with emphasis on composition<br>and human anatomy. Advanced projects using materials and techniques<br>suitable for the human form. Students who repeat this course will<br>further develop perceptual skills in clay modeling from the human |
| ARTS 30B — Ceramics: Beginning II 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTS 30A</i><br>Clay, glazes and firing. Emphasis is on repetition of forms, integrating                                                                                                                                                                                                                                                                  | Degree Applicable, CSU, UC<br>36 hours lecture<br>72 hours lab<br>An overview of traditional and contemporary approaches to sculpture.<br>Emphasizes principles of sculptural design and concept development<br>Includes exploration of technique and materials as an integral part of<br>creative expression.                                                                                                                                                           | figure.<br><b>ARTS 42 — Sculpture: Mold Making</b><br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br>Construction and use of flexible and plaster molds.                                                                                                                                                                                                                                     |
| hand building and wheel work for a single object, using up to 5 pounds<br>of clay and developing vocabulary, skill and aesthetics. Field trip<br>required.<br><b>ARTS 31A — Ceramics: Intermediate 3 Units</b> Degree Applicable, CSU, UC 36 hours lecture 72 hours lab <i>Prerequisite: ARTS 30B</i>                                                                                                                                                                                                                                                  | ■ ARTS 40B — Sculpture: Beginning 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTS 40A</i><br>Advanced projects in subtractive, additive and manipulative approaches<br>are explored.                                                                                                                                                                     | ■ ARTS 46A — Sculpture: Special Effects Makeup 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Advisory: ARTS 42</i><br>Modeling, molding, casting of makeup appliances and masks to the<br>human figure.                                                                                                                                                                       |
| 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 <i>Prerequisite: ARTS 31A</i> 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 40C — Sculpture: Carving 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTS 40A</i><br>Advanced projects in stone or wood carving offering the opportunity to<br>further explore carving using hand, power and pneumatic tools.<br>Emphasis is on individual interpretation.                                                                           | ■ ARTS 46B — Sculpture: Special Effects Makeup 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTS 46A</i><br>Sculpture special effects modeling, molding and casting techniques and<br>materials applied to create appliances for the full human head, torso or<br>mouth.                                                                                       |

| A RTD 99 — Soulpture Special Studies       2 Units         Degree Applicable       2 Units         Degree Applicable       3 Units         Shours lecture       3 Units         Thours lab       Degree Applicable                                                                                                            |
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| needs.       Image: Composition and the interaction of form and content.       Prerequisite: ARTD 26A         Image: Composition and the interaction of form and content.       Degree Applicable, CSU, UC       Image: Composition and the interaction of form and content.       Prerequisite: ARTD 26A         Image: Composition and the interaction of form and content.       Degree Applicable, CSU, UC       Image: Composition and the interaction of form and content.       Prerequisite: ARTD 26A         Image: Composition and the interaction of form and content.       Degree Applicable       Degree Applicable       Development of a personal style focusing on conceptual issues and art historical influences. Students will conceptualize their work by responding to current and past art movements and popular culture in order to create unique artworks.         Prerequisite: ARTD 15A or ANIM 104       Explores contemporary and traditional approaches to drawing the human figure. Surface anatomy, proportion, line, light and shadow, composition, and the expressive potential of the human figure will be explored.       Explores contemporary and ise capturing a likeness.       Prerequisite: ARTD 23 |

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| ARTD 27 — Painting: Watercolor 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab                                                                                                                                                                                                                                                                                                                                                                                                 | <ul> <li>ARTD 45A — Printmaking: Introduction to Screenprinting 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>71 hours lab</li> <li>Creative techniques in fine art screenprinting printmaking. Emphasis is</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | contemporary context, and craftsmanship are developed through projects, discussion, and oral and written criticism. Field trips may be required.  ARTD 99 — Figure Drawing Special Studies 2 Units Degree Applicable                                                                                                                                                                                                                                                                                                                                                           |
| Prerequisite: ARTD 15A or ARTD 20 or ARTD 25A<br>Basic watercolor techniques as they relate to compositional and<br>technical problems in painting. Emphasis is placed upon painting skills<br>as related to transparent watercolor methods as well as exploration into<br>opaque and mixed-media approaches.                                                                                                                                                                                                                                                         | on developing skills, vocabulary and critical understanding of the<br>different stencil methods used in serigraphy. Screenprinting's aesthetics,<br>historical context and role in contemporary society are examined<br>through projects, discussion of craftsmanship and content by oral and<br>written discussion and criticism. Field trips may be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (May be taken four times for credit)<br>108 hours lab<br><i>Prerequisite: ARTD 17A, ANIM 101A, or ARTD 23A</i><br>Specialized studies exploring advanced and complex figure drawing<br>projects with emphasis on the development of an individual creative                                                                                                                                                                                                                                                                                                                     |
| ARTD 43A — Introduction to Printmaking 3 Units<br>Degree Applicable, CSU<br>36 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ■ ARTD 45B — Printmaking: Intermediate Screenprinting 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | direction. Content of each course and the methods of study vary from<br>semester to semester. ART HISTORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 71 hours lab<br>Creative techniques in fine art printmaking using relief and intaglio<br>processes. Emphasis is on developing skills, vocabulary and analysis of<br>its aesthetics, historical context, cultural traditions and craftsmanship<br>through projects, discussion, and oral and written criticism. Field trips<br>may be required.                                                                                                                                                                                                                        | 36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTD 45A</i><br>Complex multi-color registration in screenprinting. Emphasis on<br>registration of colors, exploration of printing on a variety of substrates,<br>and integration of social and political issues in print design. Field trips<br>may be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AHIS 1 — Understanding the Visual Arts 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Eligibility for ENGL 68<br>Fundamentals of visual art forms and the role art plays in various<br>historical periods and cultures. Students may not earn credit for both                                                                                                                                                                                                                                                                                      |
| <ul> <li>ARTD 43B — Intermediate Printmaking in Intaglio/Relief 3 Units<br/>Degree Applicable, CSU</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>36 hours lecture</li> <li>71 hours lab</li> <li>Prerequisite: ARTD 43A</li> <li>Creation of complex editioned color prints in relief and intaglio<br/>printmaking from multiple matrices. Focus is on color registration,<br/>project collaboration, and learning how to combine different printing<br/>techniques in order to realize personal artistic expression. Field trips</li> </ul> | ARTD 46A — Introduction to Painterly Printmaking 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>71 hours lab<br>Printmaking methods including carborundum prints and collography<br>with the main focus on monotype and monoprint. Emphasis on<br>developing skills in painterly approaches to printmaking, its vocabulary,<br>and critical understanding of its aesthetics, historical context and<br>craftsmanship through projects, discussion, and oral and written                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AHIS 1 and ARTB 1.<br>AHIS 1H — Understanding the Visual Arts - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Acceptance into the Honors Program<br>Fundamentals of visual art forms and the role art plays in various<br>historical periods and cultures. An honors course designed to provide an<br>enriched experience. Students may not receive credit for both AHIS 1<br>(formerly ARTA 1) and AHIS 1H.                                                                                                                               |
| may be required.<br>ARTD 44A — Printmaking: Introduction to Lithography I 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>71 hours lab<br>Creative techniques in planographic printmaking using lithography.<br>Emphasis is on skill development, vocabulary expansion, and critical<br>analysis of aesthetics, historical context, and craftsmanship through<br>projects, discussion, and oral and written criticism. Field trips may be<br>required.                                                                                                       | criticism. Field trips may be required.<br><b>ARTD 46B</b> — Intermediate Painterly Printmaking 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br>Prerequisite: ARTD 46A<br>Painterly printmaking techniques such as viscosity etchings and the<br>complexities of simultaneous relief and intaglio printing inherent in<br>collography. Emphasis on achieving personal artistic expression. Field<br>trips may be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul> <li>AHIS 3 — History of Women and Gender in Art 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Advisory: Eligibility for ENGL 1A<br/>Survey of the roles of women and gender in cultural creation and<br/>production with a focus on the visual arts. A historical and global<br/>survey, covering the role of women artists in the history of art and the<br/>representation of gender in a variety of cultures and time periods.</li> <li>AHIS 3H — History of Women and Gender in Art - Honors 3 Units<br/>Degree Applicable, CSU, UC</li> </ul> |
| ■ ARTD 44B — Printmaking: Intermediate Lithography 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>71 hours lab<br><i>Prerequisite: ARTD 44A</i><br>Single and multi-color composition in lithographic printmaking. Focus is<br>on techniques in stone lithography, color registration, and composition<br>issues. Field trips may be required.                                                                                                                                                 | Impositive required.         Impositive required. | 54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Survey of the roles of women and gender in cultural creation and<br>production with a focus on the visual arts. A historical and global<br>survey, covering the role of women artists in the history of art and the<br>representation of gender in a variety of cultures and time periods. An<br>honors course designed to provide an enriched experience. Students<br>may not receive credit for both AHIS 3 (formerly ARTA 3) and AHIS 3H.                                                    |

| <ul> <li>AHIS 4 — History of Western Art: Prehistoric 3 Units<br/>Through Gothic</li> <li>Degree Applicable, CSU, UC</li> <li>bours lecture</li> <li>Prerequisite: Eligibility for ENGL 68</li> <li>An examination of Western art from the Prehistoric through Gothic<br/>periods, demonstrating the relationship of various visual art forms to<br/>each other and to the cultural context in which they were produced.</li> <li>AHIS 4H — History of Western Art: Prehistoric 3 Units</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AHIS 6H — History of Modern Art - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Examines the artistic movements, influences, and individuals who have<br>formed the Modern tradition. Emphasis is on the 20th century; the<br>international and multicultural character of Modern art will be explored.<br>An honors course designed to provide an enriched experience. Students<br>may not receive credit for both AHIS 6 (formerly ARTA 6) and AHIS 6H.                                                                                                                                                                                                                                                                                                              | AHIS 12H — History of Precolumbian Art - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Acceptance into the Honors Program<br>The arts of Pre-Columbian Mesoamerica and Andean South America.<br>Major monuments of sculpture, painting, architecture, ceramics and<br>textiles from civilizations including the Maya, Aztecs, and Inca will be<br>examined in their cultural contexts. An honors course designed to<br>provide an enriched experience. Students may not receive credit for                                                                                                                                                                                                                                                                                                                   |
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| <ul> <li>Anis 4n — history of western Art: Preinstort</li> <li>S bints</li> <li>Through Gothic - Honors</li> <li>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Prerequisite: Acceptance into the Honors Program</li> <li>Western art from the Prehistoric through Gothic periods demonstrating</li> <li>the relationship of various visual art forms to each other and to the</li> <li>cultural context in which they were produced. This is an honors course</li> <li>designed to provide an enriched experience. Students may not receive</li> <li>credit for both AHIS 4 (formerly ARTA 4) and AHIS 4H.</li> <li>AHIS 5 — History of Western Art: Renaissance</li> <li>3 Units</li> <li>Through Modern</li> <li>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Western art from the Renaissance through Modern periods,</li> <li>demonstrating the relationship of various visual art forms to each other</li> </ul> | <ul> <li>AHIS 9 — History of Asian Art 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>An examination of Asian artistic traditions. Major monuments of<br/>painting, sculpture, architecture and other visual art forms are studied<br/>within their religious and cultural contexts.</li> <li>AHIS 10 — A History of Greek and Roman Art 3 Units<br/>and Architecture</li> <li>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Advisory: Eligibility for ENGL 68</li> <li>A critical history of Greek and Roman art before 500 CE. Works of art<br/>and architecture will be examined in their cultural contexts. Historical<br/>perceptions of Classical art and culture and their impact on Europe and<br/>America will be studied.</li> </ul> | both AHIS 12 (formerly ARTA 12) and AHIS 12H.<br>AHIS 99 — Special Projects in Art History 2 Units<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lab<br>Advisory: AHIS 1 (formerly ARTA 1)<br>To offer selected students recognition for their academic interests and<br>ability and the opportunity to explore their disciplines to greater depth,<br>the various departments from time to time offer special projects<br>courses. The content of each course and the methods of study vary from<br>semester to semester and depend on the particular project under<br>consideration. Students repeating this course will make individual<br>contracts of a more advanced nature with the instructor to ensure that<br>proficiencies are enhanced. |
| and to the cultural context in which they were produced.  AHIS 5H — History of Western Art: Renaissance 3 Units Through Modern - Honors Degree Applicable, CSU, UC 4 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AHIS 11 — History of African, Oceanic, and<br>Native American Art Degree Applicable, CSU, UC 4 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 noistic evolution arts bedu decenties and ritue beint util                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASTRONOMY<br>ASTR 5 — Introduction to Astronomy<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Eligibility for ENGL 1A<br>A non-technical survey of the Universe. Fundamental concepts and facts<br>of astronomy. Topics include the origin and evolution of planets, stars,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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.<br>AHIS 6 — History of Modern Art 3 Units 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul> <li>painting, sculpture, architecture, body decoration, and ritual objects will be studied in their cultural contexts.</li> <li>AHIS 12 — History of Precolumbian Art 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Advisory: Eligibility for ENGL 68</i></li> <li>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</li> </ul>                                                                                                                                                                                                                                                                                                                                                 | and galaxies; results of space exploration and modern cosmology. Enroll<br>in ASTR 5L to receive laboratory science credit. Field trips may be<br>required.<br><b>ASTR 5H — Introduction to Astronomy - Honors</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 1A; acceptance into Honors</i><br>Program<br>An honors course designed to provide an enriched experience. A non-                                                                                                                                                                                                                                                                                                                                                                                                                   |
| formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Modern art will be explored.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| <ul> <li>ASTR 5L — Astronomical Observing Laboratory</li> <li>1 Unit<br/>Degree Applicable, CSU, UC</li> <li>54 hours lab</li> <li>Corequisite: ASTR 5 or ASTR 5H or ASTR 7 or ASTR 8 (may have been taken<br/>previously)</li> <li>Provides practical experience in astronomy including use of telescopes<br/>and demonstrations in the college planetarium. Occasional evening<br/>observing sessions with the telescopes and other field trips are<br/>required.</li> <li>ASTR 7 — Geology of the Solar System</li> <li>S Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>A study of the Earth-like planets, satellites, and meteorites, from a<br/>geological point of view. Surveys geological methods and their<br/>application to the study of cratering, tectonic and volcanic activity,<br/>weathering, rock formation, landsliding, erosion, faulting, etc. Emphasis<br/>on solar system bodies other than Earth. Field trips may be required.</li> <li>ASTR 8 — Introduction to Stars, Galaxies, and<br/>the Universe</li> <li>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Survey of current astronomical models, structure and evolution of stars,<br/>galaxies, and the universe. Field trip(s) required. Enroll in ASTR 5L to<br/>receive lab science credit.</li> <li>ASTR 99 — Special Projects in Astronomy<br/>Cogree Applicable, CSU</li> <li>(May be taken four times for credit)</li> <li>36 hours lecture</li> <li>In order to offer selected students recognition for their academic<br/>interests and ability, and the opportunity to explore their disciplines to<br/>greater depth, the various departments from time to time offer Special<br/>Projects courses. The content of each course and the methods of study<br/>vary from semester to semester and depend on the particular project<br/>under consideration. Student must have instructor's authorization<br/>before enrolling in this class. Students who reneat this course will</li> </ul> | <ul> <li>BIOL 2 — Plant and Animal Biology</li> <li>4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: BIOL 1 or BIOL 4; and Math 71</li> <li>Basic structures and functions of plants and animals including concepts<br/>in systematics, evolution, physiology, ecology, and biotic relationships.</li> <li>BIOL 3 — Ecology and Field Biology</li> <li>4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Identification and ecological relationships of common local plants and<br/>animals. Emphasizes evolutionary relationships; ecology including<br/>animal behavior, communities, ecosystems, wilderness and wildlife<br/>preservation, and population dynamics. Techniques of collecting and<br/>preserving. Many laboratory meetings conducted off campus; most trips<br/>require walking/ hiking. Includes one weekend or all day field trip.</li> <li>BIOL 4 — Biology for Majors</li> <li>4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>72 hours lab</li> <li>Prerequisite: CHEM 10 or CHEM 40, and MATH 71</li> <li>Examines core principles of biology required for advanced study,<br/>including concepts of cellular and molecular biology, bioenergetics,<br/>genetics, reproduction, evolution, biodiversity, and ecology. Includes one<br/>hour discussion group per week.</li> <li>BIOL 4H — Biology for Majors - Honors</li> <li>4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>72 hours lab</li> <li>Prerequisite: Acceptance into the Honors Program, CHEM 10, and MATH 71</li> <li>Explores core principles of biology required for advanced study,<br/>including concepts of cellular and molecular biology, bioenergetics,<br/>genetics, reproduction, evolution, biodiversity and ecology. An honors<br/>course designed to provide an enriched experience for acrelated</li> </ul> | <ul> <li>BIOL 6 — Humans and the Environment 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Prerequisite: Eligibility for ENGL 68<br/>Ecological concepts to aid understanding our environmental crisis and<br/>determining courses of action to correct the problem. Emphasis will be<br/>placed on specific problems of population, pollution, preservation of<br/>wildlife and wilderness, and open space. A historical appraisal of human<br/>attitudes toward the land and of the necessity of developing a new<br/>land ethic.</li> <li>BIOL 61 — Humans and the Environment Laboratory 2 Units<br/>Degree Applicable, CSU, UC</li> <li>108 hours lab<br/><i>Corequisite: BIOL 6 (may have been taken previously)</i><br/>Investigates major principles and problems of humans and the<br/>environment in the field and in the biological science laboratory. Most<br/>laboratory meetings will be conducted at off-campus locations. Some<br/>trips will require significant amounts of walking. Course includes one<br/>weekend field trip. Taking BIO 6 prior to BIO 6L is highly recommended.</li> <li>BIOL 8 — Cell and Molecular Biology 4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lab<br/><i>Prerequisite: BIOL 4 or BIOL 4H, and CHEM 50</i><br/>Introduction to cell and molecular biology including eukaryotic cells,<br/>eukaryotic organelles, protein synthesis; genome organization in<br/>viruses, prokaryotes and eukaryote; gene cloning; protein and DNA<br/>technology and applications of genetic engineering.</li> <li>BIOL 13 — Human Reproduction, Development and Aging 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/><i>Prerequisite: Eligibility for ENGL 68</i><br/>Provides a basic understanding of human development, from<br/>conception to death Conception growth maturation and aging are</li> </ul> |
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| In order to offer selected students recognition for their academic<br>interests and ability, and the opportunity to explore their disciplines to<br>greater depth, the various departments from time to time offer Special<br>Projects courses. The content of each course and the methods of study<br>vary from semester to semester and depend on the particular project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 54 hours lecture<br>72 hours lab<br><i>Prerequisite: Acceptance into the Honors Program, CHEM 10, and MATH 71</i><br>Explores core principles of biology required for advanced study,<br>including concepts of cellular and molecular biology, bioenergetics,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | technology and applications of genetic engineering.  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| BIOL 1 — General Biology 4 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>54 hours lab<br><i>Prerequisite: ENGL 67</i><br><i>Advisory: READ 90</i><br>Major principles and concepts, including cellular biology, energy<br>relationships, biological systems, heredity, evolution and ecology for<br>non-science majors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Degree Applicable, CSU, UC<br>54 hours lecture<br>Provides an overview of contemporary health issues known to affect<br>the quality and longevity of life. Topics include: sexuality and<br>reproduction, stress management, fitness and nutrition, substance use<br>and abuse, and environmental quality. Emphasis is on prevention of<br>illness and injuries. May satisfy the Health Education requirement for a<br>California State Teaching Credential.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | content, will be visited.  BIOL 15 — Human Sexuality Degree Applicable, CSU, UC S4 hours lecture Prerequisite: Eligibility for ENGL 68 Surveys biological, behavioral, cultural and ethical aspects of human sexuality. Contains mature and sexually explicit content.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| ■ BIOL 15H — Human Sexuality - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Surveys biological, behavioral, cultural and ethical aspects of human<br>sexuality. Contains mature and sexually explicit content. An honors<br>course designed to provide an enriched experience. Students may not<br>receive credit for both BIOL 15 and BIOL 15H.         | Degree Applicable, CSU<br>54 hours lab<br>Corequisite: BIOL 34 (May have been taken previously)<br>Experiments and problem solving in genetics including Mendelian<br>Genetics, linkage and recombination, cell division, mutation, molecular<br>genetics including use of PCR and electrophoresis, population genetics,<br>and bioinformatics.<br><b>BIOL 50 — Biology Basic Skills</b> .5 Unit<br>Not Degree Applicable<br>(May be taken for Pass/No Pass only)<br>9 hours lecture<br>Basic skills needed for students to succeed in biological science classes.<br>Topics include a contrast of the academic demands of science to non-<br>science disciplines, preparation for biological laboratory experiences as<br>well as lectures, development of personal study plan to manage the<br>large volume of information, interpretation of biological graphs and<br>diagrams, introduction to common Latin and Greek words to build<br>vocabulary, use of memorization techniques, application of test-taking<br>strategies for biological exams, especially lab practica, and analysis of<br>test results. These techniques and strategies will be discussed using<br>biological concepts and vocabularies as examples. Recommended to be<br>taken concurrently with any biological science class. | <b>BUSINESS: ACCOUNTING</b><br><b>BUSA 7 — Principles of Accounting - Financial 5 Units</b><br>Degree Applicable, CSU, UC<br>90 hours lecture<br><i>Prerequisite: BUSA 11 or eligibility for MATH 51</i><br><i>Advisory: Eligibility for ENGL 1A</i><br>Introduction to financial accounting required of Business Administration<br>and Accounting majors. Defines financial accounting and its relevance to<br>business decision makers, accounting concepts and techniques, analysis<br>and recording of financial transactions, and preparation, analysis and<br>interpretation of financial statements focusing on application of<br>generally accepted accounting practices. Includes asset, liability, and<br>equity valuation, revenue and expense recognition, cash flow, internal<br>controls, ethics, and financial statement analysis. General Ledger<br>Accounting Software program is integrated throughout and used to<br>complete various homework assignments. |
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| ■ BIOL 17 — Neurobiology and Behavior 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>An integrated analysis of the biological, ecological and evolutionary<br>bases of behavior (ethology.) Historical and evolutionary contexts are<br>emphasized through a detailed consideration of the psychobiological,<br>ecological, ontological and sociobiological determinants of animal<br>behavior. Field trips may be required. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| BIOL 20 — Marine Biology 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>An introduction to the marine environment including the principles of<br>marine science, biology of marine invertebrates and vertebrates,<br>structure and function of marine ecosystems, and human impact on the<br>ocean. Field trip required.                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ■ BUSA 8 — Principles of Accounting - Managerial 5 Units<br>Degree Applicable, CSU, UC<br>90 hours lecture<br><i>Prerequisite: BUSA 7</i><br>Review of managerial accounting, job and process costing, cost-volume-<br>profit analysis, cost behavior analysis and use, cost allocation, the<br>budgeting process, responsibility accounting in a decentralized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ■ BIOL 21 — Marine Biology Laboratory 1 Unit<br>Degree Applicable, CSU, UC<br>54 hours lab<br><i>Corequisite: BIOL 20 (may have been taken previously)</i><br>An introduction to the field and laboratory aspects of the marine                                                                                                                                                                                                            | ■ BIOL 99A — Special Projects in Biology 1 to 2 Units<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>18 to 36 hours lecture<br>In order to offer students recognition for their academic interests and<br>bility and the executivity to explore their disciplines to execute doubt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | operation, standard costing, pricing decisions, relevant costs for decision<br>making, segment reporting, variable costing, capital budgeting<br>decisions, inventory management and analysis, and financial statement<br>analysis. Gives the student the tools and methods needed for decision<br>making.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul> <li>environment. Emphasizes the structure and functional biology of marine invertebrates and vertebrates, ecology of intertidal organisms and ecology of estuaries. Field trips required.</li> <li> <b>BIOL 24</b> — Introduction to Public Health Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i>         Public health concepts and practice by examining the philosophy, purpose,</li> </ul>  | ability and the opportunity to explore their disciplines to greater depth,<br>the various departments from time to time offer Special Projects<br>courses. The content of each course and the methods of study vary from<br>semester to semester and depend on the particular project under<br>consideration. Students must have instructor's authorization before<br>enrolling in this course. Students repeating this course will make<br>individual contracts of a more advanced nature with the instructor to<br>insure that proficiencies are enhanced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ■ BUSA 11 — Fundamentals of Accounting 3 Units<br>Degree Applicable<br>54 hours lecture<br><i>Prerequisite: BUSA 68 or eligibility for MATH 50</i><br>Accounting vocabulary and theory, equations to solve word problems,<br>percentages, simple and compound interest, payroll, business taxes,<br>present value, investments, inventory, depreciation, financial statement<br>analysis and ratios.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| history, organization, function, tools, activities and outcomes of public<br>health practice at the global, national, state, and community levels.<br>Instruction prepares students to identify and assess important national<br>and international problems and ethical issues facing public health today.                                                                                                                                 | BOTANY BTNY 3 — Plant Structures, Functions, and Diversity 5 Units Degree Applicable, CSU, UC 54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BUSA 21 — Cost Accounting 4 Units<br>Degree Applicable<br>72 hours lecture<br>18 hours lab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ■ BIOL 34 — Fundamentals of Genetics 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: BIOL 4 or BIOL 4H</i><br>Explores theory and applications of genetics. Major topics include<br>Mendelian and molecular genetics, mechanisms of inheritance, gene<br>expression, linkage and chromosome mapping, mutations and evolution,<br>population genetics, and ethical and moral implications of DNA technology.  | 108 hours lab<br>Advisory: BIOL 1 or BIOL 4 and Eligibility for ENGL 1A<br>An introduction to the structures, functions and comparative<br>morphology, and phylogenetic relationships of organisms from bacteria<br>to angiosperms with an emphasis on ethnobotany, evolution,<br>classification, ecology and conservation. Several laboratory meetings are<br>mandatory field trips, conducted off-campus, and students provide their<br>own transportation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Prerequisite: BUSA 8<br>Practical and theoretical concepts of cost accounting. Includes variable<br>and fixed costs, cost-volume-profit analysis, job order and process<br>costing, activity-based costing, general and flexible budgeting, standard<br>costs, product costing/pricing methods, cost allocation, inventory<br>management, capital budgeting, and transfer pricing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| <b>BUSA 52</b> — Intermediate Accounting <b>3 Units</b><br>Degree Applicable<br>54 hours lecture<br><i>Prerequisite: BUSA 8</i><br>Detailed review of basic accounting concepts and principles and an in-<br>depth analysis of the balance sheet and income statement. Emphasis is<br>placed on the changing nature of principles and practices, the<br>application of present-value concepts, the complexity of transactions<br>that arise in a complex economic environment and the use of<br>accounting information in decision making. | <ul> <li>BUSA 71 — Personal Financial Planning</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>Personal and family financial planning for those who wish to<br/>understand their own finances across the lifespan and assist others in<br/>money management. Topics include financial goal setting, budgeting,<br/>consumer credit, debt management, banking functions, income taxes,<br/>home ownership, insurance, investing, and retirement planning.</li> <li>Students may not earn credit for both BUSA 71 and FCS 80.</li> <li>BUSA 72 — Bookkeeping - Accounting</li> <li>5 Units</li> </ul>                                                                                                                                                           | BUSINESS COMMUNICATIONS         BUS0 5 — Business English       3 Units         Degree Applicable       54 hours lecture         Prerequisite: Eligibility for ENGL 68       Thorough training in the skills and techniques of English, as applied to business situations, with emphasis on effective paragraphs and memos.         BUS0 25 — Business Communications       3 Units         Degree Applicable       3 Units                                                                                                                                             |
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| ■ BUSA 53 — Ten-Key Calculations 2 Units<br>Degree Applicable<br>18 hours lecture<br>54 hours lab<br><i>Prerequisite: BUSA 68 or eligibility for MATH 50</i><br>Operation of electronic calculators by the touch method to solve<br>business and accounting problems. Focuses on the application of<br>calculator features to specific business concepts including banking<br>records, payroll, invoice pricing and inventory.                                                                                                             | Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>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.     </li> <li>BUSO 26 — Oral Communications for Business         3 Units         Degree Applicable     </li> </ul> |
| BUSA 58 — Federal Income Tax Law 3 Units<br>Degree Applicable<br>54 hours lecture<br><i>Prerequisite: BUSA 7 or BUSA 72</i><br>Federal and state income tax laws as related to individuals, partnership<br>and corporation taxation including interpretations of recent changes.                                                                                                                                                                                                                                                           | 18 hours lecture<br><i>Prerequisite: BUSA 7 or BUSA 72</i><br>Application of basic accounting concepts utilizing a computerized ledger<br>software program. Hands-on use of a microcomputer to process<br>accounting transactions, prepare statements and reports, and complete<br>accounting cycle tasks. Completion of a computerized accounting                                                                                                                                                                                                                                                                                                                                                                                                                                           | (May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Oral communication used in business situations such as training<br>sessions, presentations, professoinal discussions, and telephone<br>interactions.<br>BUSO 96A — Business Vocabulary 1.5 Units                                                                                                                                                                                                                                                                                       |
| Emphasis is placed on individual income taxes and related problems in research through the use of a federal tax reporting service.                                                                                                                                                                                                                                                                                                                                                                                                         | practice set will be required.  BUSA 76 — Using Microcomputers in  1 Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| BUSA 68 — Business Mathematics 3 Units<br>Not Degree Applicable<br>54 hours lecture<br>Reviews addition, subtraction, multiplication, division, decimals,<br>percentages, fractions, sign numbers, equations and problem solving.                                                                                                                                                                                                                                                                                                          | Managerial Accounting<br>Degree Applicable<br>18 hours lecture<br>Prerequisite: BUSA 7 or BUSA 72<br>Analyze financial data and prepare managerial accounting reports using                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27 hours lecture<br>Develops a broad word command of new and specialized business<br>vocabulary for use in various businesses. Improves vocabulary to<br>enhance written and oral communication<br>BUSINESS: ECONOMICS                                                                                                                                                                                                                                                                                                                                                  |
| BUSA 70 — Payroll and Tax Accounting 3 Units<br>54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Excel software. Development of "what-if" formulas to be used as an aid<br>in decision-making. Manufacturing and consolidation worksheets,<br>financial statement analysis, and statement of cash flows.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BUSC 1A — Principles of Economics - Macroeconomics 3 Units<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Prerequisite: Eligibility for BUSA 11<br>Examines all areas of on-the-job payroll accounting. Surveys the various<br>tax procedures required by the employer and employee in filing the<br>correct forms for Social Security, federal, and state income taxes and<br>their reconciliation. Laws related to Worker's Compensation, State<br>Disability Benefit Laws and Fair Employment Practices are discussed.                                                                                                                            | ■ BUSA 81 — Work Experience in Accounting 1 to 4 Units<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 to 300 hours lab<br><i>Prerequisite: Compliance with Work Experience regulations as designated</i><br><i>in the College Catalog</i><br><i>Advisory: BUSA 7 or BUSA 72</i><br>Provides accounting students with actual on-the- job experience in an<br>approved work site which is related to classroom-based learning. A<br>minimum of 75 paid clock hours or 60 non-paid clock hours per semester<br>is required for each one unit of credit. Work experience placement is not<br>guaranteed but assistance is provided. Students who repeat this course<br>will improve skills through further instruction and practice. | <ul> <li>54 hours lecture</li> <li>Prerequisite: Eligibility for ENGL 1A, and successful completion of MATH 71<br/>or MATH 71B or MATH 71X</li> <li>Principles of aggregate economic analysis; economic cycles including<br/>recession, unemployment, inflation and economic growth; national<br/>income accounts; money and financial institutions; monetary and fiscal<br/>policy; alternative economic viewpoint; budget deficits and public debts;<br/>international trade and finance.</li> </ul>                                                                  |

| <ul> <li>BUSC 1AH — Principles of Economics - Macroeconomics 3 Units - Honors         <ul> <li>Degree Applicable, CSU, UC</li> </ul> </li> <li>S4 hours lecture         <ul> <li>Prerequisite: Acceptance into the Honors Program and MATH 71, or MATH 71B, or MATH 71X</li> </ul> </li> <li>Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1A and BUSC 1AH.</li> <li>BUSC 1B — Principles of Economics - Microeconomics 3 Units Degree Applicable, CSU, UC 54 hours lecture         <ul> <li>Prerequisite: BUSC 1A or BUSC 1AH</li> <li>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.</li> </ul> </li> <li>BUSC 1BH — Principles of Economics - Microeconomics 3 Units - Honors         <ul> <li>Degree Applicable, CSU, UC</li> <li>S4 hours lecture</li> <li>Prerequisite: BUSC 1A or BUSC 1AH</li> <li>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.</li> </ul> </li> </ul> | BUSINESS: LAW         BUSL 18 — Business Law       3 Units         Degree Applicable, CSU, UC         54 hours lecture         Prerequisite: Eligibility for ENGL 68         Principles of business law emphasizing legal setting of business, nature of the law and court procedure, principles of contract law, sales of goods under the Uniform Commercial Code, personal property, bailments, and secured transactions.         BUSL 18H — Business Law - Honors       3 Units         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 18         BUSL 19 — Advanced Business Law         BUSL 19 — Advanced Business Law         BUSL 20 — International Business Law         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         Advisory: Eligibil | BUSM 20 — Principles of Business     SUM:     Business     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     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     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     Sunter     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 |
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| BUSC 17 — Applied Business Statistics 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: MATH 71<br>Statistical reasoning and application of primary statistical techniques<br>used in solving managerial problems. Topics include: collection and<br>interpretation of data, measures of central tendency and dispersion,<br>probability distributions, sampling and estimation, hypothesis testing,<br>analysis of variance, linear regression and correlation and index<br>numbers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, crimes, trade regulation and technology transfers.           BUSINESS: MANAGEMENT           ■ BUSM 10 — Principles of Continuous Quality Improvement         3 Units           ■ BUSM 10 — Principles of Continuous Quality Improvement         3 Units           ■ BUSM 10 — Principles of Continuous Quality Improvement         3 Units           ■ BUSM 10 — Principles of Continuous Quality Improvement         3 Units           ■ BUSM 10 — Principles of Continuous Quality Improvement         3 Units           ■ BUSM 10 — Principles of Continuous Quality Improvement         3 Units           ■ BUSM 10 — Principles of Continuous Quality Improvement         3 Units           ■ Geree Applicable         54 hours lecture           Advisory: Eligibility for ENGL 68 or BUSO 5         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.                                                                                                                                     | <ul> <li>planning.</li> <li>BUSM 52 — Principles of Exporting and Importing 3 Unit<br/>Degree Applicable, CS</li> <li>54 hours lecture<br/>Advisory: Eligibility for ENGL 68 or BUSO 5<br/>Acquaints the student with the vocabulary, acronyms and the basic</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| BUSM 60 — Human Relations in Business 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Behavior, personality, self-management, self-development, and<br>elementary business psychology as an aid to furthering the student's<br>business advancement and lifelong learning. Class discussions focus on<br>the student's understanding of intrapersonal and interpersonal<br>effectiveness with emphasis on communications, motivation, leadership<br>and other related areas.                                                                                                                                        | BUSM 85 — Special Issues in Business 2 Units<br>Degree Applicable<br>(May be taken two times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>Provide business majors with a forum to gain knowledge, develop<br>techniques, problem solve and implement an actual business plan.<br>Special emphasis will be placed on the particular project of the actual<br>business used as the class project. Students who repeat this course will<br>improve dills theorem further interaction and practice.                                                                                                                                                                       | 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 guardianships.                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>BUSM 61 — Business Organization and Management 3 Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br><i>Advisory: BUSM 20</i><br>Functions of management, techniques of decision making and problem<br>solving, and methods used by the manager to achieve organizational<br>goals. Various theories of management, lines of authority, functions of<br>departments, and the importance of policies, procedures, and controls<br>are discussed.                                                                                                                                                                    | improve skills through further instruction and practice.<br>BUSINESS: PARALEGAL<br>PLGL 30 — Introduction to Paralegal/Legal 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Prerequisite:ENGL 68<br>Federal and state legal systems, the relationship of paralegals to<br>attorneys, legal writing and research, investigation of claims, and legal<br>ethics for paralegals.                                                                                                                                                                                                                                                                                                                                  | ■ PLGL 35B — Automated Law Office Procedures 3 Units<br>Degree Applicable<br>54 hours lecture<br>Prerequisite: PLGL 35A<br>Corequisite: PLGL 30 (may have been taken previously)<br>Advisory: CISB 15 or equivalent computer experience<br>Use of the personal computer for special purposes in the law office; includes<br>the drafting of pleadings, legal research, document control, preparation of<br>billing, law office and case load management, and tax reports.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ■ BUSM 62 — Human Resource Management 3 Units<br>Degree Applicable<br>54 hours lecture<br>Direction of people including guidance, control supervisory problems,<br>training, job analysis interviewing, testing, rating, and other functions<br>involving human resources. Designed to improve the overall<br>understanding of the relationship between the individual and the<br>business organization.                                                                                                                                                                                                                     | PLGL 31A — Legal Analysis and Writing 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Corequisite: PLGL 30 or BUSL 30 (may have been taken previously)</i><br>Use of a law library for legal research and references, reading and<br>analyzing codes and statutes, and preparation of case briefs and<br>research reports.                                                                                                                                                                                                                                                                                                                                                                                   | ■ PLGL 36 — Paralegal Internship 1 Unit<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 hours lab<br>Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A<br>Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have<br>been taken previously)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| BUSM 66 — Small Business Management 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Practical problems encountered in organizing and operating a small<br>business enterprise: initiating the business, financial and administrative<br>control, legal and government relationships and other related<br>considerations.                                                                                                                                                                                                                                                                                            | ■ PLGL 31B — Advanced Legal Analysis and Writing 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: PLGL 30 and PLGL 31A</i><br>Preparation of research memoranda, trial briefs, appellate briefs and<br>other paralegal documents. Continuation of PLGL 31A, Legal Analysis<br>and Writing.                                                                                                                                                                                                                                                                                                                                                                                                      | Designed to provide the student with actual on-the-job experience in<br>the paralegal profession which relates to student's classroom based<br>learning. Placement is not guaranteed but assistance is provided by the<br>paralegal faculty. A minimum of five hours per week of supervised work<br>(minimum 75 paid clock hours or 60 non-paid clock hours per<br>semester) is required. Students who repeat this course will improve<br>skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>BUSM 81 — Work Experience in Business 1 to 4 Units</b> Degree Applicable (May be taken for rass/No Pass only) 75 to 300 hours lab <i>Corequisite: BUSM 20 (may have been taken previously)</i> Provides business students with actual on-the-job experience in an approved 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. | <ul> <li>PLGL 33A — Civil Procedure Pretrial 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture<br/>Corequisite: PLGL 30 (may have been taken previously)<br/>Analysis of the pretrial procedural steps to litigating a cause of action.<br/>Examines the concepts of jurisdiction, venue, parties to the action,<br/>summons, default judgments, and pleadings.</li> <li>PLGL 33B — Civil Procedure-Trial and Post-Trial 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture<br/>Prerequisite: PLGL 33A<br/>Preparing for litigation. Includes discovery, preparation of law and<br/>motion documents, remedies, summary judgments, motions to dismiss,<br/>settlements, and arbitration.</li> </ul> | <ul> <li>PLGL 37 — Tort Law</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>Analysis of the law of torts including intentional torts such as assault,<br/>battery, false imprisonment, defamation, privacy, trespass and nuisance,<br/>negligence, and strict liability. Examination of insurance defense issues.</li> <li>PLGL 38 — Employment and Ethical Issues<br/>in Paralegalism</li> <li>2 Units</li> <li>Degree Applicable</li> <li>36 hours lecture</li> <li>Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A</li> <li>Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have<br/>been taken previously)</li> <li>Job search skills including preparation of professional resumes and cover letters.<br/>interviewing techniques, networking, application of these skills in beginning the<br/>search for paralegal employment, and paralegal and attorney ethics.</li> </ul> |

| 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       2 Units or community property, child custody, child support, spousal support, and prenuptial/antenuptial agreements.         P | 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.  PIGL 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.  PIGL 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.  PIGL 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.  PIGL 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 | BUSINESS: REAL ESTATE         BUSR 50 — Real Estate Principles       3 Units<br>Degree Applicable, CSU         54 hours lecture       Introductory real estate law, public control, property valuation, finance<br>and real estate practice. Meets some of the California Real Estate         Salesperson and Broker License requirements and meets 30 hours<br>toward Basic Appraisal Procedures 2008 Appraiser Qualifications Board<br>(AWB) requirements for certified-residential/certified-general appraiser<br>license. Also provides 30 hours toward office of real estate Appraisers<br>(OREA) requirements for state licensing.         BUSR 51 — Legal Aspects of Real Estate       3 Units<br>Degree Applicable         54 hours lecture       Prerequisite: BUSR 50 or employment in the real estate field<br>Real estate contracts, leases, deeds, foreclosures, homesteads, agency,<br>and disclosures. Can be used to meet the additional educational<br>requirements for the salesperson or broker license.         BUSR 52 — Real Estate Practice       3 Units<br>Degree Applicable         54 hours lecture       Gorequisite: BUSR 50 (may have been taken previously) or employment in<br>the real estate field         Office procedures and practices in listings, advertising, prospecting,<br>financing, exchanges, property management, salesmanship, land<br>utilization and public relations. A course in real estate practice must be<br>completed within 18 months of licensure.         BUSR 52D — Real Estate Practice Work Experience<br>units minimum including work experience units.<br>Provides a minimum of 180 hours of on-site real estate office and/or<br>field work experience under the supervision of a licensed California real<br>estate license at time of enrollment. Student must be enrolled in seven |
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Section 10 135

| BUSR 55 — Real Estate Economics 3 Units                                                                                                                                                                                                                                                                                                                                                                                                             | BUSR 77 — Escrow Procedures II 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BUSINESS: SALES, MERCHANDISING, AND MARKETING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Degree Applicable<br>54 hours lecture<br><i>Prerequisite: BUSR 50 or employment in the real estate field</i><br>Analysis of international, national and local factors which determine the<br>value of real estate. Required by the DRE for the real estate broker<br>license and may be used as the elective course for the salesperson<br>license.<br>BUSR 57 — Income Tax Aspects of Real 3 Units                                                 | Degree Applicable<br>54 hours lecture<br><i>Prerequisite: BUSR 76</i><br>Advanced escrow procedures covering the more unusual and difficult<br>types of escrows and evaluating the possible solutions. Emphasis on<br>practical processing of real estate sale and loan transactions with some<br>personal property sales. Designed to assist those either directly or<br>indirectly connected with the escrow industry.                                                                                                                                                                                                            | BUSS 33 — Advertising and Promotion 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Characteristics and role of advertising and promotion in business are<br>explored. Emphasis is placed on promotional mix, trend and forecast<br>research, and developing a comprehensive multimedia promotion plan<br>including advertising layout and copy. Students may not receive credit<br>for both BUSS 33 and FASH 63.                                                                                                                                                                                                                      |
| Estate Investments<br>54 hours lecture<br>Current income tax principles governing the acquisition, ownership,<br>operation and disposition of real property investments with special<br>emphasis on tax planning and integration of tax concepts with<br>procedural aspects. May be used as an elective course to satisfy one of<br>the California Department of Real Estate's requirements for the<br>salesperson or broker license.               | ■ BUSR 81 — Appraisal: Priniciples and Procedures 3.5 Units<br>Degree Applicable<br>63 hours lecture<br>Principles and procedures of appraising real property with emphasis on<br>residential properties. Required by Office of Real Estate Appraisers<br>(OREA) for all appraisal licenses and by the Department of Real Estate<br>(DRE) for real estate broker license. Provides 60 hours toward OREA<br>requirements for state licensing. Includes all topics listed in Appraisal<br>Qualifications Board (AQB) Basic Appraisal Principles and Basic Appraisal<br>Procedures modules. May be used as the elective course for the | BUSS 35 — Professional Selling 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Principles of selling and the role of a salesperson in the marketing<br>process. Includes characteristics and skills necessary for a successful<br>salesperson, techniques for prospecting and/or qualifying buyers, buyer<br>behavior and critical steps in the selling process. Students develop and<br>offer a sales presentation for a selected product, service or concept.                                                                                                                        |
| <ul> <li>BUSR 59 — Real Estate Property Management 3 Units<br/>Degree Applicable</li> <li>54 hours lecture<br/>Prerequisite: BUSR 50</li> <li>Property management for owners and managers of residential and<br/>commercial income properties. Meets California real estate license<br/>requirements for salesperson and broker.</li> <li>BUSR 60 — Real Estate Investment Planning 3 Units</li> </ul>                                              | salesperson license.  BUSR 82 — Uniform Standards of Professional Appraisal Practice (USPAP) 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                                                                                                                                                                                                                                                                                      | BUSS 36 — Principles of Marketing 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Organization and function of system of distributing goods and services<br>from the point of production to the consumer. Preparation of a<br>marketing plan using product, distribution, promotional and pricing<br>strategies.                                                                                                                                                                                                                                                                       |
| Degree Applicable<br>54 hours lecture<br><i>Prerequisite: BUSR 50 or employment in the real estate field</i><br>A comprehensive analysis of various investment strategies, techniques,<br>systems, and theories involving all forms of real estate with particular<br>emphasis on research methods needed for successful investing.<br><b>BUSR 62</b> — Mortgage Loan Brokering and Lending<br>Degree Applicable                                    | Appraisers (OREA).  BUSR 83 — Residential Appraisal 3.5 Units 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                                                                                                                                                                                                                                                 | <b>BUSS 50</b> — <b>Retail Store Management and Merchandising 3 Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br>Principles and practices used in the management and merchandising of<br>retail stores. Includes all aspects of the critical buying function,<br>merchandising, promotional techniques, site selection, layout, staffing,<br>market positioning and customer service. Students may not receive<br>credit for both FASH 62 and BUSS 50.                                                                                                                                                                                |
| 54 hours lecture<br><i>Prerequisite: BUSR 50 or employment in the real estate field.</i><br>Overview of the technical knowledge of the State and Federal laws that<br>govern the practice of mortgage loan brokerage and lending in the<br>State of California as well as mortgage lending history and process. May<br>be used as an elective for the salesperson or broker license.                                                                | Appraisers (OREA) for all appraisal licenses and provides 60 hours<br>toward OREA requirements for appraisal licensing. May be used as the<br>elective course for the salesperson license or the required appraisal<br>course for broker license.<br>BUSR 84 — Residential Appraisal: Case Studies 2.5 Units                                                                                                                                                                                                                                                                                                                        | BUSS 79 — Work Experience in Marketing Management 1 to 4 Units<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 to 300 hours lab<br>Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance                                                                                                                                                                                                                                                                                                                                                                             |
| ■ BUSR 76 — Escrow Procedures I 3 Units<br>Degree Applicable<br>54 hours lecture<br>A case study method of escrow procedures including processing of sale<br>escrows with and without new trust deed financing; learning and using<br>the vocabulary of escrow; drawing of documents; and other processing<br>details pertinent to handling escrows from inception to closing. May be<br>used as an elective for the salesperson or broker license. | Degree Applicable<br>45 hours lecture<br>Emphasizes residential appraisal case studies, report writing, statistics,<br>modeling, and finance. Required by Office of Real Estate Appraisers<br>(OREA) for all appraisal licenses. Provides 45 hours toward OREA<br>requirements for state licensing. Includes all topics listed in Appraisal<br>Qualifications Board (AQB) Modules: Residential Report Writing and Case<br>Studies; Statistics, Modeling, and Finance; and Advanced Residential<br>Applications and Case Studies.                                                                                                    | with Work Experience regulations as designated in the College Catalog<br>Provides marketing students with actual on-the-job experience in an<br>approved work site which is related to classroom-based learning. A<br>minimum of 75 paid or 60 non-paid clock hours per semester of<br>supervised work is required for each unit of credit. It is recommended<br>that the hours per week be equally distributed throughout the<br>semester. Work Experience placement is not guaranteed but assistance<br>is provided by the business faculty. Students who repeat this course will<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CHEMISTRY CHEM 10 — Chemistry for Allied Health Majors 4 Units Degree Applicable, CSU, UC S4 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul> <li>CHEM 50H — General Chemistry I - Honors 5 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>108 hours lab</li> <li>Prerequisite: Acceptance into the Honors Program. Also (CHEM 40 or<br/>satisfactory score on the Chemistry Placement Exam) and (MATH 71,<br/>71B or 71X or equivalent)</li> <li>Topics in general chemistry such as scientific method, measurements,<br/>nomenclature, formulas and equations, reaction patterns, stoichiometry,<br/>thermodynamic processes, periodic trends, atomic structure, molecular<br/>bonding and geometry, properties of gases, liquids, solids and solutions.<br/>Emphasis is on critical thinking and mathematical problem-solving<br/>using dimensional analysis. Hands-on laboratory experiments use</li> </ul> |
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| <ul> <li>CHMT 1 — Introduction to Chemical Laboratory Technology</li> <li>Degree Applicable</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: CHEM 10</li> <li>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.</li> <li>CHMT 8 — Work Experience in Chemical Technology 1 to 2 Units Degree Applicable</li> <li>(May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(May be taken for Pass/No Pass only)</li> <li>75 to 150 hours lab</li> <li>Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog</li> <li>Provides Chemistry Technology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.</li> </ul> | Degree Applicable, CSU, UC<br>54 hours lab<br>Prerequisite: CHEM 10 or CHEM 40<br>Nomenclature, structure, function and reactions of major classes of<br>organic compounds and of biomolecules, including amino acids, lipids,<br>carbohydrates, nucleic acids and proteins. Structure and function of<br>vitamins, coenzymes and enzymes. Metabolic pathways and biochemical<br>energy.<br><b>I</b> CHEM 40 — Introduction to General Chemistry 4 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>72 hours lab<br>Prerequisite: Eligibility for ENGL 1A<br>Introduction to measurements, structure and properties of matter,<br>writing/balancing equations, stoichiometry, properties and behavior of<br>gases, and properties of solutions. For science/ engineering majors<br>preparing for admission into General Chemistry (CHEM 50.)<br><b>I</b> CHEM 50 — General Chemistry 1 5 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>108 hours lab<br>Prerequisite: (CHEM 40 or satisfactory score on Chemistry Placement<br>Examination) and (MATH 71, 71B or 71X or equivalent)<br>Topics in general chemistry such as scientific method, measurements,<br>nomenclature, formulas and equations, reaction patterns, stoichiometry,<br>thermodynamic processes, periodic trends, atomic structure, molecular<br>bonding and geometry, properties of gases, liquids, solids and solutions.<br>Emphasis is on critical thinking and mathematical problem-solving<br>using dimensional analysis. Hands-on laboratory experiments use<br>computer and calculator-based technologies in data acquisition and<br>analysis. Introduces techniques of scientific writing. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| ■ CHEM 80 — Organic Chemistry 5 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>108 hours lab<br><i>Prerequisite: CHEM 51</i><br>Designed for chemistry, biochemistry, chemical engineering and biology<br>majors; also for those in pre-professional programs such as medicine,<br>veterinary medicine, dentistry, optometry and pharmacy.<br>Structure/reactivity relationships, energetics, reactions, reaction<br>mechanisms, synthesis, separation, characterization and spectroscopic<br>methods for organic compunds. To assure that all content material is<br>covered, it is recommended that students complete the entire one-year<br>sequence at one campus prior to transfer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CHLD 5 — Principles and Practices in <u>Child Development Programs</u><br>Degree Applicable, CSU<br>54 hours lecture<br>Overview of early child development programs: their histories,<br>philosophies and emphasis; methods of guidance and discipline,<br>licensing and regulations for state, federal and private programs.<br>Reviews philosophies of educating young children and learning, while<br>examining developmentally appropriate practices, including the<br>influence of culture and inclusive environments on the developing child.<br>Explores career paths, professional growth, and ethics. Student<br>assignments involve ten hours outside of class time observation and<br>participation in children's programs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <ul> <li>CHLD 50 — Multicultural Education:<br/>Anti-Bias Perspective</li> <li>Degree Applicable</li> <li>St hours lecture</li> <li>Advisory: CHLD 1</li> <li>Current approaches to diversity in the early childhood setting. Students</li> <li>will create culturally relevant and inclusive teaching environments while</li> <li>fostering the goals of anti-bias curriculum. An emphasis is placed on<br/>addressing issues of bias that children and families experience on a<br/>daily basis in our society and recognizing effective and respectful<br/>handling of bias.</li> <li>CHLD 51 — Early Literacy in Child Development</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Sequence at one campus prior to transfer. <ul> <li>CHEM 81 — Organic Chemistry</li> <li>Degree Applicable, CSU, UC</li> <li>S4 hours lab</li> <li>Prerequisite: CHEM 80</li> <li>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.</li> </ul> <li> <ul> <li>CHEM 99 — Special Projects in Chemistry</li> <li>Quints Degree Applicable, CSU</li> <li>(May be taken four times for credit)</li> <li>36 hours lecture</li> <li>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.</li> </ul> </li> <li>         CHLD 1 — Child, Family, School and Community 3 Units Degree Applicable, CSU, UC 54 hours lecture         <ul> <li>Prerequisite: Eligibility for ENGL 68</li> <li>(hild 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, abili</li></ul></li> | <ul> <li>CHLD 6 — Survey of Child Development Curriculum 3 Units<br/>Degree Applicable, CSU</li> <li>S4 hours lecture<br/>Prerequisite: CHLD 5 or CHLD 10</li> <li>Overview of curriculum design for early childhood programs, including<br/>planning, implementation and evaluation of curriculum, and observing<br/>the interaction of play and development of the whole child.</li> <li>Organization of materials, curriculum areas, and resources are explored.</li> <li>CHLD 10 — Child Growth and Development 3 Units<br/>Degree Applicable, CSU, UC</li> <li>S4 hours lecture</li> <li>Developmental approach to the study of the child identifying forces<br/>affecting growth processes from conception through adulthood. Meets<br/>requirements for Title 22 and Title V Regulations pertaining to Child<br/>Development Permit. Out-of-class observations and interviews required.<br/>TB test required.</li> <li>CHLD 10H — Child Growth and Development - Honors 3 Units<br/>Degree Applicable, CSU, UC</li> <li>S4 hours lecture<br/>Prerequisite: Acceptance into the Honors Program<br/>Developmental approach to the study of the child identifying forces<br/>affecting growth processes from conception through adulthood. Meets<br/>requirements for Title 22 and Title V Regulations pertaining to Child<br/>Developmental approach to the study of the child identifying forces<br/>affecting growth processes from conception through adulthood. Meets<br/>requirements for Title 22 and Title V Regulations pertaining to Child<br/>Development Permit. Out-of-class observations and interviews required.<br/>An honors course designed to provide an enriched experience for<br/>accelerated students. Students may not receive credit for both CHLD 10<br/>and CHLD 10H. TB test required.</li> </ul> | 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 are reviewed. TB test/observations required. <b>CHLD 61</b> — Language Arts and Art Media for Young Children       3 Units         S4 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. <b>CHLD 62</b> — Music and Motor Development for Young Children       3 Units         S4 hours lecture       Exploration of the role of music and movement in a young child's sensory motor development. Emphasizes student development in practical activities including making music, movement, singing and musical instruments. Out of class observation at a child development center required. TB test required. |

| CHLD 63 — Creative Sciencing and Math for<br>Young Children     Degree Applicable     S4 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 67L — Early Childhood Development<br>Participation Laboratory Degree Applicable, CSU 63 hours lab <i>Corequisite: CHLD 67</i> 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 71B — Management/Marketing/Personnel for 3 Units<br>ECD Programs Degree Applicable 54 hours lecture <i>Prerequisite: CHLD 71A</i> 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                                                                                                                |
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| CHLD 64 — Health, Safety and Nutrition of 3 Units<br>Young Children Degree Applicable, CSU<br>54 hours lecture<br>Examines the relationship between a child's health status, safe learning<br>environments, and proper nutrition. Emphasizes the adult role in<br>preventative health care, legal and ethical reporting of abuse, assisting<br>families to access community services while supporting family practices<br>from diverse populations. Includes universal health precautions, evaluate<br>center/agency policies with licensing requirements, and food program<br>service with guidelines for food handling. | CHLD 68 — Children With Special Needs 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: CHLD 10 or CHLD 10H</i><br>Characteristics of the needs of typically and atypically developing<br>children in areas of cognitive, physical, neurological, emotional and<br>social development. Identifies legal requirements, current issues,<br>community resources and the IEP/IFSP process. Emphasizes<br>modifications, adaptations, accommodations and teaching techniques<br>involved in the inclusive classroom. Required observations in community<br>agencies. | explores staff development strategies and techniques employed in creative teaching methods.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CHLD 66 — Early Childhood Development Observation 2 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>Prerequisite: CHLD 5 and CHLD 10 or CHLD 10H<br>Corequisite: CHLD 66L (may have been taken previously)<br>Emphasizes the importance of observation of children's behavior and its<br>significance in understanding child development principles. Focus will<br>be on the interaction of the preschool child with the environment and<br>with significant people.                                                                                                                                               | CHLD 69 — Early Childhood Development Field 2 Units<br>Work Seminar Degree Applicable, CSU<br>36 hours lecture<br>Prerequisite: CHLD 67, CHLD 67L<br>Corequisite: CHLD 91<br>Selected topics pertinent to problems of students placed in community<br>sites. Topics include philosophical orientation, curriculum, parent<br>involvement, staff relations, professionalism and professional growth,<br>and will involve study, discussion and research.                                                                                                                                 | CHLD 73 — Infant/Toddler Care and Development 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Advisory: CHLD 10 or CHLD 10H<br>Caregivers and parents learn developmentally appropriate practices for<br>infants and toddlers applicable to families and group care,<br>environmental planning, and developing relationships between diverse<br>families and staff. Student assignments involve up to ten hours of<br>observations and participation with infants and toddlers outside of class<br>time.             |
| <ul> <li>CHLD 66L — Early Childhood Development Observation Laboratory</li> <li>Degree Applicable, CSU</li> <li>54 hours lab</li> <li>Corequisite: CHLD 66</li> <li>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.</li> <li>CHLD 67 — Early Childhood Development Participation 2 Units</li> </ul>                                                         | CHLD 71A — Administration of Child Development 3 Units<br>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, ord staff aclisics erviced added                                          | CHLD 74 — Program Planning for the School Age Child 3 Units<br>Degree Applicable 54 hours lecture <i>Advisory: CHLD 10 or CHLD 10H</i> Integrates principles of child development related to working with the school-age child. Program planning and legal requirements for school- age programs are emphasized. Explores age-appropriate discipline and conflict resolution. Develops activity planning consistent with school- age content standards. Student assignments will include observations of school-age programs. |
| Degree Applicable, CSU<br>36 hours lecture<br><i>Prerequisite: CHLD 6 and CHLD 66</i><br><i>Corequisite: CHLD 67L</i><br>Application of knowledge of child development principles in the<br>preschool children's classroom setting and recognition of skills necessary<br>for the teacher of young children. Evaluation of participation<br>experiences.                                                                                                                                                                                                                                                                  | and staff policies are included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CHLD 75 — Supervising Adults in Early 2 Units<br>Childhood Settings Degree Applicable<br>36 hours lecture<br>Advisory: CHLD 1 and CHLD 5<br>Methods and principles of working with and supervising adults in the<br>early childhood setting. Emphasis is on the role of the experienced<br>children's teacher who functions as a model and mentor to new<br>teachers as s/he addresses the needs of children, parents and staff.                                                                                              |

| <ul> <li>CHLD 81 — Current Curriculum Models in Child Development</li> <li>Degree Applicable</li> <li>(May be taken two times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>18 hours lecture</li> <li>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.</li> <li>CHLD 82 — Advocacy in Child Development</li> <li>1 Unit Degree Applicable</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> </ul> | CHLD 91 — Early Childhood Development Field Work 1 Unit<br>Degree Applicable, CSU<br>(May be taken for Pass/No Pass only)<br>75 hours lab<br>Prerequisite: CHLD 67 and CHLD 67L<br>Corequisite: CHLD 69<br>A teacher-supervised work experience course which permits students to<br>apply early childhood development principles in community preschools.<br>CHLD 69 Seminar will supplement student's progress. A minimum of 75<br>paid or 60 non-paid clock hours per semester of supervised work is<br>required for each unit of credit. It is recommended that the hours per<br>week be equally distributed throughout the semester. TB test is<br>required. | <ul> <li>CHIN 4 — Continuing Intermediate Chinese 4 Units<br/>Degree Applicable, CSU, UC</li> <li>72 hours lecture<br/>Prerequisite: CHIN 3 or equivalent<br/>Enables students to use Mandarin in traveling, telling stories, describing<br/>experiences and discussing Chinese literary works, festivals and food.<br/>Students learn advanced grammar such as the directional and potential<br/>complements, repetition of adjectives, the focus construction, the ba<br/>and bei structures.</li> <li>COMPUTER GRAPHICS</li> <li>GRAP 8 — Fundamentals of Digital Media 3 Units<br/>Degree Applicable, CSU</li> </ul> |
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| 18 hours lecture<br>Investigates current issues in Child Development; explores process of<br>advocacy on behalf of children.<br>CHLD 83 — Current Issues in Child Development<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)                                                                                                                                                                                                                                                                                                                                                            | ■ CHLD 92 — Family Child Care 3 Units<br>Degree Applicable<br>54 hours lecture<br><i>Advisory: CHLD 1, 5, 6 and 10</i><br>An overall view of home-based early education programs which<br>includes standards of quality for the field of family child care in<br>relationships, environments, activities, developmental learning goals,<br>safety/health, professional and business practices.                                                                                                                                                                                                                                                                   | 36 hours lecture<br>54 hours lab<br>Introductory course for all disciplines interested in learning scientific<br>concepts, terminology, and basic techniques used to produce digital<br>media content. Includes software such as Adobe Photoshop, Apple<br>iPhoto and iMovie, and computer and other electronic hardware<br>techniques necessary to acquire, store, edit, transfer, or output digital<br>media files.                                                                                                                                                                                                    |
| 18 hours lecture<br>Advisory: CHLD 5, CHLD 10 or CHLD 10H<br>Provides students with a working knowledge of current research in<br>child development and helps them apply that research to their<br>programs and teaching. Issues covered will change with course<br>offerings. Students who repeat this course will improve skills through<br>further instruction and practice.<br>CHLD 84 — Guidance and Discipline in Child<br>Development Settings<br>Degree Applicable, CSU                                                                                                                                                                                    | CHINESE CHIN 1 — Elementary Chinese 4 Units Degree Applicable, CSU, UC 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                                                                                                                                                                                                                                                                                      | GRAP 9 — Digital Color Management     Degree Applicable     (May be taken for option of letter grade or Pass/No Pass)     36 hours lecture     54 hours lab     Digital color management software and hardware skills, techniques and     digital workflow practices commonly used with system color device     calibration and Apple Aperture, iLife, and Adobe Creative Suite     software.                                                                                                                                                                                                                            |
| 18 hours lecture<br>Advisory: CHLD 5<br>Problem solving approach to guidance and discipline of children in child<br>development settings. Investigation of appropriate developmental and<br>attitudinal aspects of producing a respectful environment between<br>children, caregivers and parents.<br><b>CHLD 85 — Infants At Risk</b><br><b>3 Units</b><br>Degree Applicable                                                                                                                                                                                                                                                                                      | culture.         CHIN 2 — Continuing Elementary Chinese       4 Units         Degree Applicable, CSU, UC         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.                                                                                                                                                                                                                                                                                                      | ■ GRAP 10 — Photoshop Imagery 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Adobe Photoshop software skills, techniques and digital workflow practices<br>from digital image editing and retouching to the composited imagery<br>commonly created for use in photography, commercial design, printing and<br>publishing, the internet and multimedia authoring production.                                                                                                                                                            |
| 54 hours lecture<br>Prerequisite: CHLD 10<br>Advisory: CHLD 73<br>Principles and methods of working with infants who are disabled or at-<br>risk. Emphasis on prenatal prevention, postnatal intervention, and<br>support programs. Course will prepare caregivers of infants at risk for<br>appropriate program planning. TB test and out-of-class observations<br>required.                                                                                                                                                                                                                                                                                      | ■ CHIN 3 — Intermediate Chinese 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br><i>Prerequisite: CHIN 2 or equivalent</i><br>Further development of Mandarin Chinese language skills and their use<br>as tools in exploring Chinese civilization. Further study and review of<br>grammar, exercises in word building, derivation, and the extension of<br>the active and recognition vocabularies.                                                                                                                                                                                                                                                  | ■ GRAP 12 — Photoshop Imagery Extended 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: GRAP 10</i><br>Adobe Photoshop Extended software skills and techniques for the<br>creative photorealistic imagery commonly used in photography,<br>commercial design, printing and publishing, the internet and<br>multimedia authoring production.                                                                                                                                                                             |

| ■ GRAP 15 — InDesign Graphics 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Adobe InDesign software skills, techniques and digital workflow<br>practices commonly created for use in essential computer graphics<br>production processes for commercial design, printing and publishing,<br>the Internet and multimedia authoring production.                                                              | ■ GRAP 30 — Digital Productions 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Computer graphics production techniques and practices used in media<br>creation and authoring professional projects commonly created for use<br>in photography, commercial design, printing and publishing, the<br>Internet and multimedia authoring production.                                                                                                                                                             | CISB 15 — Microcomputer Applications 4 Unit:<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>54 hours lab<br>Introduction of windows based operating system and applications.<br>Simple business examples using up-to-date browser, word processing,<br>spreadsheet, database management and presentation software; and<br>integration of software applications. Hands-on instruction on windows<br>based computers.                          |
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| ■ GRAP 16 — Illustrator Graphics 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br>Adobe Illustrator software skills, techniques and digital workflow from<br>essential digital drawing basics to creatively conceived illustrative<br>imagery and renderings commonly created for use in commercial<br>design, printing and publishing, the internet, and multimedia authoring                                | GRAP 40 — Computer Graphics Special Topics 2 Units<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>18 hours lecture<br>54 hours lab<br>Special topics expanding the essential knowledge, skills, production<br>techniques and proficiency of Computer Graphics commonly created for<br>self-expression, entertainment, commercial design, the Internet, and                                                                                                                                                                           | <ul> <li>CISB 16 — Macintosh Applications</li> <li>2 Unit:<br/>Degree Applicable, CSU<br/>(May be taken for option of letter grade or Pass/No Pass)</li> <li>27 hours lecture</li> <li>27 hours lab</li> <li>Formerly COMP 10.</li> <li>Apple's Macintosh computer, Mac OS X operating system, and related<br/>word processing, database, spreadsheet, and multimedia applications.</li> <li>CISB 21 — Microsoft Excel</li> <li>4 Unit:</li> </ul> |
| production.  GRAP 18 — 3D Graphics Imagery 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab                                                                                                                                                                                                                                                                                                                                  | multimedia production.         COMPUTER INFORMATION SYSTEMS: AUXILIARY         CISX 94 — Laboratory Studies in Computer<br>Information Systems       1 to 3 Units         Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                              | CISB 21 — Microsoft Excel 4 Unit<br>Degree Applicabl<br>54 hours lecture<br>54 hours lab<br>Spreadsheet concepts using Microsoft Excel including formatting,<br>formulas and functions, charts, linked worksheets, pivot tables, macros,<br>and Visual Basic for Applications (VBA) code.                                                                                                                                                          |
| <ul> <li>3D graphics modeling software skills and production techniques from 2D orthographic drawing to the creatively conceived 3D imagery and animated environments commonly created for self-expression, entertainment, commercial design, printing and publishing, the internet, and multimedia authoring production.</li> <li> <b>GRAP 20</b> — Multimedia Graphics 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture     </li> </ul> | <ul> <li>(May be taken four times for credit)</li> <li>(May be taken for Pass/No Pass only)</li> <li>54 to 162 hours lab</li> <li>Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability</li> <li>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.</li> <li>Students who repeat this course will increase skill proficiencies in Computer laboratory</li> </ul> | CISB 31 — Microsoft Word 3 Unit<br>Degree Applicabl<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Formerly COMP 20.<br>Using Microsoft Word and its editing, formatting, and language tools to<br>create, revise and format various business and report documents.<br>Includes creating flyers, newsletters, and other publication documents<br>using advanced formatting techniques and tools.              |
| 54 hours lab<br>Multimedia graphics software skills and production techniques for<br>combining text, image, audio, video, animation and scripting media to<br>author multimedia projects commonly created for self-expression,<br>entertainment, commercial design, the internet, and multimedia<br>production.<br>■ GRAP 28 — Digital Portfolio 3 Units                                                                                                                                      | Computer Information Systems.<br>COMPUTER INFORMATION SYSTEMS: BEGINNING<br>CISB 11 — Computer Information Systems 3.5 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>27 hours lab<br>Overview of computer information systems including computer hardware,                                                                                                                                                                                                                                                                                                                       | CISB 51 — Microsoft PowerPoint 3 Unit<br>Degree Applicable, CSI<br>54 hours lecture<br>Formerly COMP 50.<br>Using PowerPoint to plan, design, and produce effective presentations.<br>Includes creating charts, diagrams, and storyboards; developing<br>appropriate text content; adding sound, animation, and movies                                                                                                                             |
| Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: GRAP 12 and GRAP 20</i><br>Preparation of a personal computer graphics portfolio containing key<br>samples of work for presentation or career evaluation. The portfolio<br>displays the learner's skills mastery, knowledge, and capacities for<br>communicating, synthesis, and problem solving.                                                      | software, networking, programming, databases, Internet, security, systems<br>analysis, ethics, and problem solving using business applications.<br>CISB 13 — Microsoft Windows 2 Units<br>Degree Applicable, CSU<br>27 hours lecture<br>27 hours lab<br>Hands-on instruction using Microsoft Windows Operating System to<br>manage files, folders, and disks. Includes personalizing the Windows<br>environment and browsing the web using Internet Explorer.                                                                                                                                 | CISB 61 — Desktop Publishing Software 3 Unit<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Formerly COMP 60.<br>Using desktop publishing software to integrate text and various graphic<br>objects, design, edit, and produce a variety of high-quality business<br>publications.                                                                                                  |

**COURSE DESCRIPTIONS** 

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| COMPUTER INFORMATION SYSTEMS: DATABASE<br>CISD 11 — Database Management - Microsoft Access 4 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>54 hours lab<br>Advisory: COMP 12 or CISB 11 and CISB 15<br>Design, creation, and management of relational databases using<br>Microsoft Access or similar Database Management Software (DBMS).<br>Basic database design, creation of tables, queries, forms, reports, data<br>access pages, and macros. Creation of custom graphical user interface<br>using Switchboard Manager and Visual Basic (VB) code. Extensive<br>hands-on experience on a Windows-based PC.<br>CISD 14 — Advanced Database Management 4 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Degree Applicable<br>54 hours lecture<br>Advisory: CISD 31<br>Design, creation and implementation of interactive Oracle single forms<br>with multiple canvases, multiple forms and reports using Procedural<br>Language/Structured Query Language (PL/SQL) triggers, the Object<br>Navigator, and Form and Report Builder. Business reports and interactive<br>forms are created using single and multiple tables.<br><b>CISD 40 — Database Design</b><br><b>3 Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br>Advisory: CISD 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 54 hours lecture<br>Advisory: CISI 11 or CISI 11A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul> <li>Microsoft Access</li> <li>Degree Applicable</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Advisory: CISD 11</li> <li>Advanced Microsoft Access programming techniques using Visual Basic for Applications (VBA) language; event-driven programming; Access</li> <li>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.</li> <li>Extensive hands-on experience on a Windows-based PC.</li> <li>CISD 21 — Database Management - Microsoft SQL Server 4 Units Degree Applicable, CSU 54 hours lab</li> <li>Advisory: CISB 11 or CISB 15</li> <li>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.</li> <li>CISD 31 — Database Management - Oracle 4 Units Degree Applicable, CSU 54 hours lecture</li> <li>54 hours lab</li> <li>Advisory: CISB 11</li> <li>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.</li> </ul> | 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 database, learning basic database administrator objectives and tasks, and understanding the role of data warehousing and data mining. <b>CISI 11 — Computer Keyboarding 3 Units</b> Degree Applicable, CSU         54 hours lecture         Formerly COMP 1.         Develops alpha and numeric keyboarding skills on a personal computer         at a straight-copy rate of 25 to 40 gross words a minute with a         predetermined error limit. Includes keyboarding of letters, tables, and         manuscripts. <b>CISI 11A — Computer Keyboarding 1.5 Units</b> Degree Applicable, CSU         (May be taken for option of letter grade or Pass/No Pass)         27 hours lecture         Formerly COMP 1A.         Develops basic alpha and numeric keyboarding with skills on a personal         computer at a straight-copy rate of 25 to 30 gross words a minute with         a predetermined error limit. <b>CISI 11B — Computer Keyboarding 1.5 Units</b> Degree Applicable, CSU         27 hours lecture         Advisory: <i>CISI 11A (formerly COMP 1A)</i> or ability to type 20 warm with         test verification at first class meeting         Formerly COMP 1B.         Develops straight-copy keyboarding rate of 25-40 gross words a minute         with an error limit; includes letters, tables, and reports. | Formerly COMP 18.<br>Data entry using a microcomputer. Includes skill building on the ten-key<br>pad and development of keyboarding skills for entering formatted and<br>non-formatted text, both alphabetic and numeric, in a variety of<br>business applications.<br><b>I CISI 41 — Office Management Skills 3 Units</b><br>Degree Applicable<br>54 hours lecture<br>Advisory: CISI 11 or CISI 11A<br>Formerly COMP 28.<br>Training and skill building in filing systems and procedures,<br>proofreading, telephone techniques, faxing, emailing, and electronic<br>calendaring of events, appointments and meetings.<br><b>COMPUTER INFORMATION SYSTEMS: MANAGEMENT</b><br><b>I CISM 11 — Systems Analysis and Design 3.5 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br>27 hours lab<br>Advisory: CISB 15 or COMP 12 and CISB 11<br>Develops basic understanding of information systems, general system<br>solutions and the discipline of systems analysis in relation to the<br>information system life cycle. Develops skills in applying the tools,<br>techniques, and concepts of systems analysis to information systems<br>development. |

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| Security Administration Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: CISN 11 Computer Network Administration and Security Management (CNASM) core. Microsoft Certified Systems Administrator (MCSE) topics, Active Directory security and policy management, Hyper-V virtual server installation, Dynamic Host Configuration Protocol (DHCP), Domain Name Service (DNS), file system security, logon script, network printing, web and terminal server, Network Address Translation (NAT), IPsec and secure Virtual Private Network (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 | <ul> <li>CISN 34 — Linux Networking and Security A Units Degree Applicable, CSU Degree Applicable, CSU S4 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.</li> <li>CISN 51 — Cisco CCNA Networking and Routing 4 Units Degree Applicable, CSU S4 hours lab Advisory: CISN 11 or CISN 24 or CISN 34 or CISN 41 (NASM (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).</li> <li>COMPUTER INFORMATION SYSTEMS: PROGRAMMINCE</li> <li>CISP 10 — Principles of Object-Oriented Design 2 Units Degree Applicable, CSU 27 hours lecture 27 hours lab</li> <li>Object-oriented design, patterns, and use of UML in different programming languages that will enable students to build large packages and business applications.</li> <li>CISP 11 — Programming in Visual Basic 4 Units Degree Applicable, CSU, UC 54 hours lab</li> <li>Advisory: CISB 11 or CISB 15 or computer work experience Programming USUA 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.</li> </ul> | <ul> <li>CISP 14 — Advanced Visual Basic Programming 4 Unit:<br/>Degree Applicable, CSU, UG<br/>54 hours lecture<br/>54 hours lab<br/>Advisory: CISP 11<br/>Advanced computer programming concepts using Visual Basic.NET as<br/>the programming language. Designing, coding, testing, and<br/>implementing object-oriented multiple tier programs; program design<br/>using Unified Modeling Language; using data adapters, object linking<br/>and embedding (OLE) objects and dynamic link libraries (DLLs);<br/>incorporating XML, Web forms, and Web services; creating and updating<br/>sequential and random files; validating input data; trapping errors;<br/>designing, displaying, searching, and updating database tables; creating<br/>record sets using SQL and database reports using Crystal Reports,<br/>producing business graphics; using distributing applications; creating<br/>components, collections, and help files.</li> <li>CISP 21 — Programming in Java 4 Unit:<br/>Degree Applicable, CSU, UC<br/>54 hours lab<br/>Advisory: CISB 11 or CISB 15<br/>Programming using Java as the programming language. Design and<br/>develop object-oriented programs and Web-based applets;<br/>documentation and debugging techniques; user-interface, objects,<br/>properties, methods, and events; elementary control structures, lists,<br/>arrays, streams and serialization. Provides students with hands-on<br/>experience.</li> <li>CISP 24 — Advanced Java Programming<br/>Advisory: CISP 21<br/>Advanced object-oriented programming concepts and techniques in<br/>Java. Course is designed to teach serialization, multithreading, advanced<br/>Swing components, networking, server-side technology (servlets, remote<br/>method invocation (RMI), Java server pages), Java Database Connectivity.<br/>(JDBC), Java Beans, public key infrastructure (PKI) security.</li> <li>CISP 31 — Programming using C++ as the programming<br/>language. Object oriented design, documentation, and debugging<br/>techniques. Elementary control structures, classes, overload operators<br/>and functions, single and multiple inheritance.</li> </ul> |
| and its graphical interface; using Linux Shells and system administration<br>commands; managing user accounts; installing hardware and software;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | language. Object oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <ul> <li>CISP 34 — Advanced C++ Programming 4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>54 hours lab<br/>Advisory: CISP 31</li> <li>Advanced object-oriented programming concepts and principles of<br/>object-oriented design in C++. Data structures: vectors, linked lists,<br/>queues, stacks and hash tables. Programs with graphical-user interface.<br/>Access to a database. Web services.</li> <li>CISP 41 — Programming in C# 4 Units<br/>Degree Applicable, CSU<br/>(May be taken for option of letter grade or Pass/No Pass)</li> <li>54 hours lecture</li> <li>54 hours lab<br/>Advisory: CISB 11 or CISB 15<br/>Plan, develop and debug C# applications using Windows Forms and<br/>Web Forms. Course covers loops, if statements, switch blocks, database</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COMPUTER INFORMATION SYSTEMS: SECURITY         Image: Clss 11 — Practical Computer Security       2 Units         Degree Applicable       27 hours lecture         27 hours lab       Advisory: ClSB 11         Introductory course in computer security. Provides awareness for all computer users to protect user accounts and computer systems from attacks. Projects illustrate security software and hardware configuration.         Image: Clss 13 — Principles of Information Systems Security       4 Units         Degree Applicable       54 hours lecture         54 hours lab       Advisory: ClSB 11         Information systems security preparation for the Certified Information Systems Security Professional (ClSSP). Includes legal, business, and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>CISS 25 — Network Security and Firewalls<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Design secure networks by implementing and configuring firewalls,<br/>DMZ, and VPNs for enterprise, medium, and small businesses. Includes<br/>designing, installing, configuring, maintaining, troubleshooting, and<br/>monitoring firewall solutions by Cisco and other leading firewall<br/>manufacturers.</li> <li>CISS 27 — Defending Computer Systems 1 Unit<br/>Degree Applicable</li> <li>(May be taken four times for credit)</li> <li>54 hours lab</li> <li>Team-oriented practice installing and setting-up security in computer<br/>and network systems. Includes hands-on activities defending,<br/>responding, mitigating, and analyzing security attacks along with<br/>preparing written reports documenting how the system was defended.</li> </ul> |
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| <ul> <li>Connections, multiple forms, object-oriented programming concepts.<br/>Course taught in hands-on environment and requires projects<br/>implementing each concept.</li> <li>CISP 44 — Advanced Programming in C# 4 Units<br/>Degree Applicable<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>54 hours lab<br/><i>Prerequisite: CISP 41 or industry experience in C#</i><br/>Advanced programming concepts using C#. Designing, coding, testing<br/>and implementing object-oriented multi-tier applications; displaying,<br/>searching, and updating SQL client databases with both Windows Forms<br/>and Web Forms; creating user controls, Web Services, and container<br/>classes; creating help files, deploying applications, and developing<br/>mobile applications.</li> <li>CISP 51 — Principles of Object-Oriented Design 2 Units<br/>Degree Applicable</li> <li>Thours lecture<br/>27 hours lecture<br/>27 hours lab<br/><i>Advisory: CISP 11 or CISP 21 or CISP 31</i><br/>Provides instruction in object-oriented design and patterns, vital<br/>concepts for object-oriented programming language. Includes object-<br/>oriented design, patterns and UML within programming that will<br/>enable students to build large packages and business applications.</li> </ul> | ethical topics.  CISS 15 — Operating Systems Security CISS 15 — Operating Systems Security CISS 15 — Operating Systems Security CISS 11, CISN 21 Advanced aspects of operating systems security from how attackers operate to how viruses strike. Covers strengthening operating systems and repelling attacks, and applying security concepts and techniques to different operating systems (Windows, Unix etc.)  CISS 21 — Network Vulnerabilities and Countermeasures 4 Units Degree Applicable, CSU S4 hours lecture S4 hours lab Network vulnerabilities from a hacker's perspective and ethical and legal issues associated with computer network attacks. Includes written security, use, and instance response policies, scanning and penetration tests, vulnerability assessments and countermeasures for Windows and Linux operating systems, secured programming, Virtual Private Network (VPN), cryptography, wireless, Web, and remote access securities. Also includes GIAC Certified Incident Handler certification preparation.  CISS 23 — Network Analysis, Lutrusion Detection/Prevention Systems Degree Applicable, CSU S4 hours lecture S4 hours lab CNASM (Computer Network Administration and Security Management) A5 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 29 — CNASM Service Learning     1 Unit     Degree Applicable, CSU     (May be taken for option of letter grade or Pass/No Pass)     54 hours lab     Integrate knowledge learned from Computer Network Administration     and Security Management courses through lab activities and     community services.     COMPUTER INFORMATION SYSTEMS:     WEB APPLICATIONS     CISW 11 — Internet Technologies     4 Units     Degree Applicable, CSU     54 hours lecture     54 hours lecture     54 hours lab     Advisory: CISB 11 or CISB 13 or CISB 15     Internet concepts and how to use Internet technologies securely,     including: email, World Wide Web, chat, instant messaging, voice over IP,     internet search, file-sharing, streaming media, Web pages and Web     sites, blogs, wikis, podcasting, RSS, social networking, online gaming,     and eCommerce.                         |

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| ■ CISW 15 — Web Site Development 4 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>54 hours lab<br><i>Advisory: CISB 13 or (CISB 15 or COMP 12) or CISB 16 (formerly COMP 10)</i><br>Formerly COMP 13.<br>Use of a professional visual Web-authoring application to plan, develop,<br>implement, publish and maintain Web sites. Includes working with text                                                                                                                                                                                                                                                                  | CISW 41 — XML Secure Programming 3 Units<br>Degree Applicable<br>54 hours lecture<br>Advisory: CISW 21<br>Principles, components and benefits of the Extensible Markup Language<br>(XML), including concepts of XPointers, XLink, and XSLT. Apply secure<br>XML programming using DOM and SAX and standards such as<br>canonicalization, signatures and encryption.                                                                                                                                                                                                                                                                                                                                                                                                              | CSCI 145 — Java Language and Object<br>Oriented Programming<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>54 hours lab<br>Prerequisite: CSCI 110<br>Introduction to Java language and object oriented programming with<br>Java as well as general concepts and techniques of computer<br>programming. Topics include: Java expressions, flow control, methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| and images, internal and external hyperlinks, image maps, tables,<br>Cascading Style sheets, Web page content, Web forms, multimedia<br>objects (Flash text, Flash buttons, sounds, and video), interactions and<br>behaviors, and Web page templates. Principles of Web site structures,<br>documentation, management, and maintenance will be discussed.                                                                                                                                                                                                                                                                                                                                       | CISW 49 — Service Oriented Architecture Concepts 3 Units<br>and Practice Degree Applicable<br>54 hours lecture<br>Advisory: CISW 41<br>Fundamentals, definitions, standards and case studies of Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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.<br>CSCI 150 — Assembly Language/Machine Architecture 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul> <li>CISW 21 — Secure Web Programming with ASP.NET 4 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Advisory: CISB 15 or CISW 11</li> <li>Acquire secure programming skills for designing user interfaces,<br/>processing user input, and accessing Web servers and databases. Use<br/>secure coding techniques with Web programming, scripting and markup<br/>languages like XHTML, Dynamic HTML, CSS, XML, Javascript, AJAX,<br/>ASP.NET with VB.NET.</li> <li>CISW 24 — Secure Server Side Web Programming<br/>Degree Applicable</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Advisory: CISW 11</li> </ul>                         | Oriented Architecture (SOA) including design elements and design principles, and concepts and examples of service-oriented computing and the principle of service-orientation.         COMPUTER SCIENCE         COMPUTER SCIENCE         COMPUTER SCIENCE         Computer Science 3.5 Units Degree Applicable, CSU, UC         S4 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.)                | Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: CSCI 110<br>Corequisite: CSCI 150L<br>Organization and operation of real computer systems at the assembly<br>language level using the Intel 80x86 family of processors; mapping<br>statements and constructs in a high-level language onto sequences of<br>machine instructions; internal representations of simple data types and<br>structures; numerical computation, noting various data representation<br>errors and potential procedural errors; investigation of basic principles of<br>operating systems; and programming language translation process.<br><b>CSCI 150L</b> — Assembly Language Laboratory<br>Lunit<br>Degree Applicable, CSU, UC<br>(May be taken for Pass/No Pass only)<br>54 hours lab                                                            |
| Secure web programming by creating user interfaces, extracting information and managing databases, managing files, report formatting, and accessing web servers by using PERL, Python, Ruby or any Web scripting or programming language.  CISW 31 — Secure Web Servers 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: CISN 34 or CISW 24 Plan, install and manage secure Web servers like Apache using server side programming language like PHP, Python or Ruby to access, manage and secure databases. Course topics include Web server security using firewalls, authentication, and SSL, database installation and configuration, running and securing e-commerce sites. | <ul> <li>Section 140 — C++ Language and Object Development 4 Units<br/>Degree Applicable, CSU, UC</li> <li>S4 hours lecture</li> <li>S4 hours lab</li> <li>Prerequisite: CSCI 110 or equivalent programming experience</li> <li>For computer science, mathematics, engineering and other science</li> <li>students. Introduction to C++ programming and object-oriented</li> <li>paradigm. Control structures, functions, arrays, pointers and strings,<br/>classes and data abstraction, C++ object programming, operator</li> <li>overloading, inheritance, virtual functions and polymorphism, stream</li> <li>input and output, templates, exception handling, file processing.</li> <li>Introduction to data structures in C++, string processing and recursion.</li> </ul> | <ul> <li>Corequisite: CSCI 150</li> <li>Advisory: CSCI 140; language experience programming general and scientific algorithms and data structures in C++ or Java strongly recommended</li> <li>Complements the lecture material in CSCI 150. Development/debugging of assembly language programs.</li> <li>CSCI 170 — Introduction to Unix Operating System 3.5 Units Degree Applicable, CSU, UC 54 hours lecture 27 hours lab</li> <li>Prerequisite: Completion of CSCI 110</li> <li>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.</li> </ul> |

Section 10 145

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| CSCI 190 — Discrete Mathematics Applied to<br>Computer Science<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: MATH 71 or equivalent<br>Provides students with the mathematical background necessary in<br>Computer Science: set theory, logic, modular arithmetic, combinatorics,<br>finite probability and graphs. Topics include propositional and predicate<br>calculus, recursion, binary search trees and counting techniques.    | COMPUTER AND NETWORKING TECHNOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CNET 58 — Server Systems 3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br>Advisory: CNET 56<br>Server installation, configuration, and management. Includes hardware<br>and software components, virtual server configurations, troubleshooting<br>techniques using flow charts and diagnostic tools, and disaster recovery<br>concepts. Emphasis on hardware components. Covers the core material<br>needed for the Server+ Certification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <ul> <li>CSCI 210 — Applied Logic for Computers 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Prerequisite: CSCI 110</li> <li>Basic concepts of digital systems, introduction to Boolean algebra, truth<br/>tables, Karnaugh maps, combinational elements and networks, state<br/>diagrams, state tables, sequential elements and networks.</li> <li>CSCI 220 — Data Structures I 3 Units<br/>Degree Applicable, CSU, UC</li> </ul> | CNET 50 — PC Servicing 4 Units<br>Degree Applicable<br>54 hours lecture<br>54 hours lab<br><i>Advisory: ELEC 50B taken prior or concurrently</i><br>PC and peripheral servicing techniques, preventative maintenance,<br>hardware configurations, software confirgurations, software diagnostics,<br>and the use of test equipment.                                                                                                                                                                                                                             | CNET 60 — A+ Certification Preparation 2 Units Degree Applicable 36 hours lecture Advisory: CNET 54 Prepares the student and qualified computer technician for the A+ certification examination. All aspects of the A+ Essentials and A+ Practical Application test modules will be stressed through both lecture review and test simulation software.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 54 hours lecture<br>Prerequisite: CSCI 140 or CSCI 145<br>Corequisite: CSCI 220L<br>Abstract data types and running time analysis tools. Linear data<br>structures including sets, stacks, queues, and linked lists. Trees, binary<br>search trees, heaps, and priority queues. Many procedures are discussed<br>using an algorithmic language and selected problems are programmed<br>in a higher level language.                                         | ■ CNET 52 — PC Operating Systems 4 Units<br>Degree Applicable<br>54 hours lecture<br>54 hours lab<br><i>Advisory: CNET 50 taken prior</i><br>Current operating systems required for A+ and Network+ Certification<br>and general computer servicing. Topics include: identification of major<br>components, installation, configuration, upgrading and troubleshooting.                                                                                                                                                                                         | CNET 62 — Network+ Certification Preparation 2 Units<br>Degree Applicable<br>36 hours lecture<br><i>Advisory: CNET 56</i><br>Prepares the student and/or A+ certified technician for the Network+<br>Certification Examination. Individuals preparing for a job in the<br>computer networking industry or who wish to become Network+<br>certified will find this course invaluable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CSCI 220L — Data Structures I Laboratory 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken for Pass/No Pass only)<br>54 hours lab<br><i>Corequisite: CSCI 220</i><br>An independent study program designed to complement the lecture<br>material presented in CSCI 220, Data Structures. Hands-on computer                                                                                                                                             | ■ CNET 54 — PC Troubleshooting 4 Units<br>Degree Applicable<br>54 hours lecture<br>54 hours lab<br><i>Advisory: CNET 50 taken prior</i><br>Advanced microcomputer servicing. Includes: isolating, identifying, and<br>repairing specific problems in the computer environment at the                                                                                                                                                                                                                                                                            | CNET 64 — Server + Certification Preparation 2 Units<br>Degree Applicable<br>36 hours lecture<br><i>Advisory: CNET 58</i><br>Prepares the computer/network service technician for the CompTIA<br>Server+ certification examination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| work will include problem solving in linear data structures, strings, and<br>trees.<br>CSCI 230 — Data Structures II 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: CSCI 220<br>Corequisite: CSCI 230L<br>Basic searching/sorting algorithms, hashing, graphs, memory/disk<br>management, B-trees, advanced tree structures and analysis.                                                                                      | 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. | <ul> <li>CNET 66 — Security + Certification Preparation 2 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>Advisory: CNET 54 and CNET 56 taken prior</li> <li>Prepares the computer/network service technician for the CompTIA<br/>sponsored Security+ Certification examination. Security information is<br/>covered only as it pertains to enabling the service technician to<br/>troubleshoot a computer system that may have a security problem.</li> <li>CORRECTIONAL SCIENCES</li> <li>CORS 10 — Introduction to Correctional Sciences 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>Overview of the field of corrections: county jail, probation, the California<br/>Youth Authority and the Department of Corrections as a member of the<br/>Criminal Justice System. Includes philosophy, past and the present<br/>practices and the criminal justice and correctional processes.</li> </ul> |

| CORS 15 — Control and Supervision of the Offender 3 Units                                                                                                                                                                                                                     | COUNSELING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COUN 51 — Career Planning 1 Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| 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                                        | 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                                                                                                                                                                                                                                | Degree Applicable, CSU<br>(May be taken for Pass/No Pass only)<br>18 hours lecture<br>Designed for students who want assistance in making career decisions.<br>A variety of assessments, inventories, and computer generated<br>information will be used in analyzing the student's potential in the<br>world of work.                                                                                                                                                                                                                       |
| 54 hours lecture<br>Legal and due process rights for inmates. Inmate rights vs. needs of<br>society. State, federal, and appellate court decisions.  CORS 25 — Probation and Parole 3 Units Degree Applicable 54 hours lecture                                                | making.   COUN 2 — College Success Strategies Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                              | COUN 54 — Single Parent Academy 3 Units<br>Degree Applicable<br>54 hours lecture<br>Develop personal, educational, and career/life planning skills for single<br>parents.                                                                                                                                                                                                                                                                                                                                                                    |
| 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 | Assists students in evaluating their readiness for a successful college<br>experience. Explores strategies and techniques to be an effective college<br>student, including time management, study skills, college resources,<br>career exploration and educational planning. Develops skills necessary<br>to reach educational and career goals.                                                                                                                                                                                                                                 | COUN 99A — Special Projects in Counseling .5 to 2 Units<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>47 to 119 hours lab<br>In order to offer selected students recognition for their academic                                                                                                                                                                                                                                                                                                                       |
| Degree Applicable<br>54 hours lecture<br>Historical development of probation and parole with emphasis on<br>current California programs. Defines the roles of courts, parole boards<br>and the duties and responsibilities of the staff of probation and parole<br>agencies.  | ■ COUN 5 — Career/Life Planning 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>A systematic approach to self-exploration and career/life planning<br>which includes identification of values, interests, skills and self-<br>management style. Develop decision-making and goal-setting skills and<br>identify barriers to success. Explores careers and job search techniques.                                                                                                                                        | interests and ability and the opportunity to explore their disciplines to<br>greater depth, various departments from time to time offer Special<br>Projects courses. This course will focus on establishing career and<br>educational goals for students. Students must have an instructor's<br>authorization before enrolling in this course. Students repeating this<br>course will make individual contracts of a more advanced nature with<br>the instructor to ensure that proficiencies are enhanced. A field trip may<br>be required. |
| Degree Applicable<br>54 hours lecture<br>Techniques of interviewing and counseling in the field of corrections<br>with emphasis on practical application. Needs of the client and agency<br>will be stressed.                                                                 | COUN 7 — Introduction to the Transfer Process 2 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>Advisory: ENGL 68                                                                                                                                                                                                                                                                                                                                                                                            | DANCE: ACTIVITY DNCE 1 — Ballet 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)                                                                                                                                                                                                                                                                                                                                                         |
| ■ CORS 40 — Crime and Delinquency 3 Units<br>Degree Applicable<br>54 hours lecture<br>Criminal behavior and types of crime and effects on society and victims.<br>Stresses property crime, property offender, motivation, and methods of<br>control used by society.          | Introduction and orientation to the transfer process to a four-year<br>institution. Includes an in-depth exploration of transfer requirements,<br>admission procedures and requirements for majors. Also explores<br>academic and support services, financial aid and other transitional<br>issues to enable students to make informed choices on majors and four-<br>year institutions and in academic planning. Field trips are required.                                                                                                                                      | 36 to 108 hours lab<br>Fundamentals of ballet dance styles and an exploration of composition<br>in the ballet dance form. Students who repeat this course will improve<br>proficiency through continued instruction and practice.                                                                                                                                                                                                                                                                                                            |
| CORS 45 — The Violent Offender 3 Units<br>Degree Applicable<br>54 hours lecture<br>Violent crimes of felony assault, robbery, rape, the various types of<br>homicide, and the characteristics of both the offender and the victim.                                            | COUN 20 — Peer Counselor Training 2 Units<br>Degree Applicable, CSU<br>36 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Designed for group experiences with interpersonal communication and<br>discussion of approaches to peer counseling and advising at Mt. SAC.<br>Provides opportunities for students to develop skills with a variety of<br>communication styles that include open expression, active listening, and<br>feedback. Upon completion of this course, opportunities may be<br>available for students to become employed as peer counselors. | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Basic vocabulary, technique, and movement combinations for ballet.<br>Students who repeat this course will improve proficiency through<br>continued instruction and practice.                                                                                                                                                                                                       |

| <ul> <li>DNCE 2B — Ballet II</li> <li>.5 to 1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>36 to 54 hours lab</li> <li>Intermediate technique, vocabulary and movement combinations of<br/>ballet. Students who repeat this course will improve proficiency through<br/>continued instruction and practice.</li> <li>DNCE 3 — Ballet Performance</li> <li>.5 to 1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>36 to 54 hours lab</li> <li>Introduces the experienced dance student to the performance aspect of<br/>ballet. Provides the opportunity to develop the ability to analyze form<br/>leading to composition of advanced movement combinations. Students<br/>who repeat this course will improve proficiency through continued<br/>instruction and practice.</li> <li>DNCE 4 — Choreography</li> </ul>                                                                                 | <ul> <li>DNCE 12A — Modern I</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ul> <li>DNCE 15 — Jazz Performance .5 to 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab</li> <li>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.</li> <li>DNCE 17 — Jazz Fundamentals .5 to 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab</li> <li>Environmentals of jazz dance and an exploration of composition in jazz form. Students who repeat this course will improve skills through further instruction and practice.</li> <li>DNCE 18A — Tap 1 .5 to 1 Unit</li> </ul> |
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| ■ DNCE 4 — Choreography .5 to 2 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 108 hours lab<br><i>Prerequisite: DNCE 12A or DNCE 12B or DNCE 13</i><br>Designed for the experienced dancer to learn the techniques of<br>choreography. Presents basic choreographic forms and compositional<br>design. Students who repeat this course will improve technical and<br>compositional skills through further practice and instruction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (May be taken for option of letter grade or Pass/No Pass)<br>36 to 108 hours lab<br>Introduces the experienced modern dance student to an overview of<br>modern dance styles and choreography elements, enabling them to<br>choreograph and perform. Students who repeat this course will improve<br>proficiency through continued instruction and practice.<br>■ DNCE 14A — Jazz I .5 to 1 Unit<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                      | Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Presents basic technique, rhythms and routines for tap dance. Students<br>who repeat this course will improve skills through further instruction<br>and practice.<br>DNCE 18B — Tap II .5 to 1 Unit<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul> <li>DNCE 11A — Social Dance Forms I .5 to 1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>36 to 54 hours lab</li> <li>Designed to teach basic social dance techniques. Focus on fundamentals<br/>of music, dance positions, dance formations and choreography to be<br/>used in the study of, but not limited to Swing, Salsa, Waltz, Foxtrot and<br/>Tango. Students who repeat this course will improve skills through<br/>further instruction and practice.</li> <li>DNCE 11B — Social Dance Forms II .5 to 1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>36 to 54 hours lab</li> <li>Advanced social dance technique. Focus on improving fundamentals of<br/>rhythm, dance positions, dance formations and introduction of advanced<br/>techniques to be used in the study of, but not limited to, Swing, Salsa,<br/>Foxtrot, Waltz, Folk, Polka, Cha Cha and Tango</li> </ul> | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Basic vocabulary, technique, movement combinations and routines for<br>jazz dance. Students who repeat this course will improve skills through<br>further instruction and practice.<br><b>DNCE 14B — Jazz II</b> .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Intermediate technique, movement combinations and routines for jazz<br>dance. Students who repeat this course will improve skills through<br>further instruction and practice. | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Intermediate technique, rhythms and routines for tap dance. Students<br>who repeat this course will improve skills through further instruction<br>and practice.<br><b>DNCE 19 — Tap Performance</b> .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Introduces the experienced dancer to the performance aspects of tap by<br>providing advanced techniques leading to the performance of<br>compositions. Students who repeat this course will improve skills<br>through further instruction and practice.                                                         |

| DNCE 22 — Dance Rehearsal .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Designed for the experienced dancer to work in a rehearsal<br>environment and to be a participant in the beginning elements of<br>concert production. Students who repeat this course will improve skills<br>through further instruction and practice.                | <ul> <li>DNCE 31 — Classical Dance</li> <li>.5 to 2 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>36 to 54 hours lab</li> <li>Provides the proficient ballet student the opportunity to experience the<br/>different schools of ballet technique. Students who repeat this course<br/>will improve skills through further instruction and practice.</li> <li>DNCE 32 — Commercial Dance</li> <li>.5 to 1 Unit</li> </ul> | DNCE 39A — Alignment and Correctives I .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Based on exercises and concepts developed by Joseph Pilates. Includes<br>basic mat work, floor, special conditioning exercises and body awareness<br>resulting in improved alignment, strength, flexibility, control,<br>coordination and breathing. The mat work leads to apparatus work (on                          |
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| 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 lab     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. | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Provides the intermediate to advanced jazz dancer the opportunity to<br>experience the different techniques of leading commercial dancers,<br>teachers and choreographers. Students who repeat this course will<br>improve skills through further instruction and practice.<br>■ DNCE 33 — Improvisation .5 to 1 Unit         | the professional reformer) emphasizing stretch, strength and trunk<br>stability and alignment. Students who repeat this course will improve<br>skills through further instruction and practice.<br><b>DNCE 39B — Alignment and Correctives II</b> . <b>.5 to 1 Unit</b><br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br><i>Advisory: DNCE 39A</i><br>Based on exercises and concepts developed by Joseph Pilates. Includes |
| DNCE 28 — Theater Dance I                                                                                                                                                                                                                                                                                                                                                                                                                                                | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Provides the opportunity to experience the creative process of<br>improvisation in dance and choreography. For all levels of Modern<br>Dance. Students who repeat this course will improve proficiency<br>through continued instruction and practice.                                                                         | 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)                                                                      |
| ■ DNCE 29 — Theater Dance II .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Provides an opportunity to learn complex dance excerpts from various<br>theater musicals and/or movies. Students who repeat this course will<br>improve skills through further instruction and practice.                                                           | ■ DNCE 34 — Dance Directives .5 to 1 Unit<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br><i>Prerequisite: Admission by audition</i><br>Provides the intermediate or advanced student the practical experience<br>to assist an instructor in the creation and instruction of a dance class.<br>Students who repeat this course will improve proficiency through                | 36 to 54 hours lab<br>Improves fitness through the coordination of dance exercises. Focuses<br>on strength, flexibility and range of motion. Designed for the non-<br>dancer. However, balance and coordination will benefit dancer and<br>non-dancer alike. Students who repeat this course will improve skills<br>through further instruction and practice.<br>DANCE: THEORY                                                                                                                                                         |
| DNCE 30 — Contemporary Dance .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours lab<br>Provides the beginning to advanced dancer the opportunity to<br>experience different techniques of leading contemporary dancers and<br>choreographers. Students who repeat this course will improve skills<br>through further instruction and practice.                                                    | 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 lab Prerequisite: Admission by audition Provides the opportunity for the advanced dancer to learn choreography and to perform repertory pieces at workshops and special events. Students who repeat this course will improve skills through further instruction and practice.     | ■ DN-T 18 — Introduction to Dance 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Advisory: Eligibility for ENGL 68<br>A survey of the profession of dance and its various art forms through<br>lecture, discussion, demonstration, and participation. Includes multi-<br>cultural dance interpretations.                                                                                                                                                                                                                 |

| Sh ours lecture       Degree Applicable       Students with Disabilities       Not Degree Applicable         Sh ours lecture         DNF 12 — Theory and Principles of Plates       Suries       Umad Cainat. All levels are covered with a focus on the development of various forms and styles of dance to include discusor       In the ourse lecture       Sh ours lecture         DNF 12 — Theory and Principles of Plates       Suries       Umad Cainat. All levels are covered with a focus on the development of correct neuromuscular patterning.       In the ourse lecture       Sh ours lecture         Sh ours lecture       18 hours lecture       Degree Applicable       In the ourse lecture       Students with Disabilities       Not Degree Applicable         10 NF 123 — Functional human anatomy as applied to the Plates method of conditioning.       In the states method of physical and mental conditioning.       In the states method of physical and mental conditioning.       In the states method of physical methods and principles. All levels are covered with a focus on the development of correct neuromuscular patterning.       In the states method of physical methods and principles. All levels are covered with a focus on the development of correct neuromuscular patterning.       In the states method of physical methods and principles. All levels are covered with a focus on the development of correct neuromuscular patterning.       In the states method of physical methods and principles. All levels are covered with a focus on the development of correct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 54 hours leture     Degree Applicable     0 bors 10     0 bors 10     10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ul> <li>ID H-T 27 — Theory and Principles of Plates</li> <li>ID H-T 33 — Teaching Plates Ped-a-Pul, Barrels</li> <li>ID H-T 34 — Functional Anatomy for Plates</li> <li>ID H-T 34 —</li></ul>                                                                                                                                                                                                                                                                                | 54 hours lecture<br>Advisory: Eligibility for ENGL 68<br>Survey of dance in western civilization. History of dance in chronological<br>sequence emphasizing the cultural background and historical<br>development of various forms and styles of dance to include discussion                                                                                                                                                                                | Degree Applicable<br>18 hours lecture<br>36 hours lab<br><i>Prerequisite: DN-T 27 and DN-T 29 and DN-T 30</i><br>Learning to teach the Pilates repertoire of exercises on the Cadillac and<br>Wunda Chair. All levels are covered with a focus on the development of | Students with Disabilities<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Advisory: Eligibility for READ 80<br>Introduces students with disabilities to college, including campus                                                                                                                                                                         |
| <ul> <li>IDNT 28 — Functional Anatomy for Pilates</li> <li>IDNT 28 — Functional Anatomy for Pilates</li> <li>IDNT 34 — Pilates Teaching-Cadillac, Wunda Chair</li> <li>IDNT 34 — Pilates Teaching Adama Concepts. Includies lecture, observation, of the Pilates, exercises and principles. Includes lecture, observations of the Pilates, exercises and principles. All coreguistic: DNI-128 and Concept. Sinculoping on pedagogy and the Sali and resources, including interests, experiences, personality, value, and Concept. Sinculoping on pedagogy and the Sali and resources and principles. All coreguistic: DNI-138 — Dance Teaching Methods</li> <li>IDNT 38 — Dance Teaching Methods in Dance. The personalize of the advectoring and concept. Including interests, experiences, personality, value, and disability-featel limitations as they relate</li></ul>                                                                                                                                                                                                                                 | Degree Applicable<br>54 hours lecture<br><i>Prerequisite: DNCE 39A</i><br>Teaching skills for the pilates method of physical and mental<br>conditioning. Concepts and principles as applied to the mat and                                                                                                                                                                                                                                                  | <ul> <li>DN-T 33 — Teaching Pilates Ped-a-Pul, Barrels<br/>and Auxiliary Equipment Repertoire</li> <li>1.5 Units</li> <li>Degree Applicable</li> <li>18 hours lecture</li> <li>36 hours lab</li> <li>Prerequisite: DN-T 30 and DN-T 32</li> </ul>                    | transition to college. Topics include self-advocacy, college resources, self-<br>management, educational accommodations, effective learning methods,<br>and goal setting.  DSPS 12 — Career Exploration and Planning for 3 Unit:                                                                                                                                                                                        |
| Image: DN-T 29 — Teaching Pilates Mat       1.5 Units         B hours lecture       Degree Applicable         18 hours lecture       108 hours lab         Corequisite: DN-T 27 (may have been taken previously)       Teaching reinforces knowledge and understanding of the Pilates         Learning to teach the Pilates mat exercises and principles. Includes lecture, observation, self-integration, assistant teaching and one-on-one teaching. Off-campus observation, self-integration, assistant teaching endrome were diverted seture.       DN-T 38 — Dance Teaching Methods       S Units         36 hours lab       DN-T 39 — Dance Teaching Methods       S Units       Degree Applicable         36 hours lab       DN-T 39 — Dance Teaching Methods       S Units       Degree Applicable         36 hours lab       DN-T 39       Degree Applicable       Degree Applicable       Degree Applicable         36 hours lab       DN-T 39       Degree Applicable       Degree Applicable       Degree Applicable         36 hours lab       DN-T 39       Degree Applicable       Degree Applicable       Degree Applicable         36 hours lab       DN-T 39       Degree Applicable       Deg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Degree Applicable<br>36 hours lecture<br>Functional human anatomy as applied to the Pilates method of                                                                                                                                                                                                                                                                                                                                                       | Pul, Ladder Barrel, Step Barrel, Arc Barrel, Magic Circle, C-cushion and props. All levels are covered with a focus on the development of correct neuromuscular patterning.  DN-T 34 — Pilates Teaching-Cadillac, Wunda Chair 3 Units                                | 54 hours lecture<br>Advisory: Eligibility for ENGL 67 and READ 80<br>Assists students with a systematic approach to self-exploration,<br>occupational research and career decision-making. Students will identify                                                                                                                                                                                                       |
| Learning to teach the Pilates mat exercises and principles. Includes stating reinforces knowledge and understanding of the Pilates mate exercises and principles. Includes lecture, observation, self-integration, assistant teaching on one-on-one teaching. Off-campus observations are reaching. Off-campus observations are reaching and one-on-one teaching. Off-campus observations are related to advanced levels focusing on pedagogy and the development of correct neuromuscular patterning.       Image: Character of the Pilates are covered with a focus on the development of correct neuromuscular patterning.       Teaching reinforces knowledge and understanding of the Pilates reaching and one-on-one teaching. Off-campus observations are related to advanced levels focusing on pedagogy and the development of correct neuromuscular patterning.       Teaching reinforces knowledge and understanding of the Pilates reaching and one-on-one teaching. Off-campus observations are related to advanced levels focusing on pedagogy and the development of correct neuromuscular patterning.       Image: Character official content of skills and resources, including those that relate to disability-related limitations as they relate to educational and career options for and practice.         36 hours lab       Prerequisite: DN-T 29       So hours lab       So hours lab       So hours lab       So hours lab or pedagogical methods in Dance. Explores teaching on the development of correct in the applicable observations. So the genes of Ballet, Jazz and Modern Dance. Course will involve on- and off- campus dance teaching observations.       So hours lab       So hours lab <td>Degree Applicable<br/>18 hours lecture<br/>36 hours lab</td> <td>Degree Applicable<br/>18 hours lecture<br/>108 hours lab<br/>Prerequisite: DN-T 33</td> <td>limitations, as well as reasonable accommodations will be explored.         Designed for students with disabilities.         DSPS 15 — Personalized Career Exploration for Students with Disabilities</td> | Degree Applicable<br>18 hours lecture<br>36 hours lab                                                                                                                                                                                                                                                                                                                                                                                                       | Degree Applicable<br>18 hours lecture<br>108 hours lab<br>Prerequisite: DN-T 33                                                                                                                                                                                      | limitations, as well as reasonable accommodations will be explored.         Designed for students with disabilities.         DSPS 15 — Personalized Career Exploration for Students with Disabilities                                                                                                                                                                                                                   |
| 18 hours lecture       Degree Applicable         36 hours lab       Prerequisite: DN-T 29         Learning to teach the Pilates Reformer exercises and principles. All levels are covered with a focus on the development of correct neuromuscular patterning.       36 hours lecture <b>IDN-T 31</b> — Pilates Teaching-Mat and Reformer <b>3 Units</b> Degree Applicable       36 hours lecture         18 hours lecture       36 hours lab <b>IDN-T 31</b> — Pilates Teaching-Mat and Reformer <b>3 Units</b> Degree Applicable       36 hours lecture         18 hours lecture       30 hours lab         Prerequisite: DN-T 28 and DN-T 29       Degree Applicable         18 hours lecture       0 hours lab         Prerequisite: DN-T 28 and DN-T 29       Not Degree and 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 co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Learning to teach the Pilates mat exercises and principles. Includes basic, intermediate and advanced levels focusing on pedagogy and the development of correct neuromuscular patterning.  DN-T 30 — Teaching Pilates Reformer Repertoire 1.5 Units                                                                                                                                                                                                        | Teaching reinforces knowledge and understanding of the Pilates<br>exercises and concepts. Includes lecture, observation, self-integration,<br>assistant teaching and one-on-one teaching. Off-campus observations<br>may be required.                                | (May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>18 hours lecture<br>Self-evaluation including interests, experiences, personality, values, and                                                                                                                                                                                                                                          |
| neuromuscular patterning.       Not Degree Applicable         Image: DN-T 31 - Pilates Teaching-Mat and Reformer 18 hours lecture       3 Units Degree Applicable       strategies, imagery, motivational techniques, music for class instruction, and injury prevention. Focus is on the genres of Ballet, Jazz and Modern Dance. Course will involve on- and off- campus dance teaching observations.       (May be taken four times for credit)         18 hours lecture       108 hours lab       Prerequisite: DN-T 28 and DN-T 29       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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 18 hours lecture<br>36 hours lab<br><i>Prerequisite: DN-T 29</i><br>Learning to teach the Pilates Reformer exercises and principles. All<br>levels are covered with a focus on the development of correct                                                                                                                                                                                                                                                   | Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Corequisite: DNCE 2B or DNCE 12B or DNCE 14B</i>                                                                                                                                                         | 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 1 Uni                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ■ DN-T 31 — Pilates Teaching-Mat and Reformer 3 Units<br>Degree Applicable<br>18 hours lecture<br>108 hours lab<br><i>Prerequisite: DN-T 28 and DN-T 29</i><br>Prepares students to teach Pilates in a variety of settings and situations.<br>Teaching reinforces knowledge and understanding of the Pilates<br>exercises. Includes lecture, observation, self-integration, assistant<br>teaching, one-on-one teaching and content. Off-campus observations | strategies, imagery, motivational techniques, music for class instruction,<br>and injury prevention. Focus is on the genres of Ballet, Jazz and Modern<br>Dance. Course will involve on- and off- campus dance teaching                                              | Not Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>18 hours lecture<br>Students will identify educational and career options. Emphasis on<br>strategies that facilitate disability-sensitive career and educational<br>planning. Barriers to employment and other disability issues are<br>addressed. Students who repeat this course will improve skills through |

| <ul> <li>DSPS 20 — Improving Spelling and Reading of Words 3 Units<br/>Not Degree Applicable</li> <li>(May be taken four times for credit)</li> <li>(May be taken for Pass/No Pass only)</li> <li>54 hours lecture</li> <li>Improve reading and spelling skills for multi-syllabic words. Includes<br/>sounding out letters, oral movements, and common "rules" for reading<br/>and spelling words. Designed for studens with learning disabilities.<br/>Students who repeat this course will improve skills through further<br/>instruction and practice.</li> <li>DSPS 30 — Academic Success Strategies for<br/>Students with Disabilities</li> <li>Not Degree Applicable</li> <li>(May be taken four times for credit)</li> <li>(May be taken for Pass/No Pass only)</li> <li>S4 hours lecture</li> <li>Mot Degree Applicable</li> <li>(May be taken four times for credit)</li> <li>(May be taken four Pass/No Pass only)</li> <li>S4 hours lecture</li> <li>Mot Degree Applicable</li></ul> | Learning Disabilities       Not Degree Applicable         (May be taken four times for credit)       (May be taken for Pass/No Pass only)         S4 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 writing.         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. <b>DSPS 33</b> — <b>Strategies for Success in Math for Students with Disabilities 3 Units Students with Disabilities</b> May be taken for Pass/No Pass only)       S4 hours lecture         Advisory: Concurrent enrollment in MATH 50 to MATH 130         Strategies for students currently in math courses for academic success in relationship to disabilities. Emphasis on effects of and strategies for processing, language expression, memory, reasoning, and processing speed as they relate to math. Students who repeat this course will improve skills through further instruction and practice. <b>DSPS 34</b> — Writing Strategies for Students       3 Units with Disabilities         May be taken for Pass/No Pass only)       S4 hours lecture         Strategies for success in writing | <ul> <li>EDUC 16 — Aspects and Issues in Teaching<br/>Service Learning</li> <li>Degree Applicable, CSU, UC</li> <li>S4 hours lecture</li> <li>Advisory: Eligibility for ENGL 68</li> <li>Survey of the teaching profession, providing students opportunities to<br/>explore aspects of the career, including teaching and learning styles,<br/>state content standards and testing, recent California and national<br/>legislation, social issues, school funding and teacher rights and<br/>responsibilities.</li> <li>ELECTRONICS</li> <li>ELEC 10 — Introduction to Mechatronics</li> <li>2 Units<br/>Not Degree Applicable</li> <li>18 hours lecture</li> <li>54 hours lab</li> <li>An introduction to the field of mechatronics, a combination of<br/>conventional electronic technology with mechanical and computer<br/>technology. Special emphasis is on robotics. Hands-on activities include<br/>the building of a robot.</li> <li>ELEC 11 — Technical Applications in Microcomputers</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Use of the personal computer (PC) in electronics for technically related<br/>applications. Includes word processing, spreadsheets, database,<br/>computer presentation methods, e-mail, and job searches.</li> <li>ELEC 12 — Computer Simulation and Troubleshooting</li> <li>2 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> <li>54 hours lab</li> <li>Advisory: ELEC 51, ELEC 56 taken prior</li> <li>Use of the personal computer for simulation and troubleshooting of<br/>both analog and digital electronic circuits. Circuit analysis, value<br/>substitution, and fault diagnostics will be done with the emphasis on<br/>"Electronics Workbench/Multisim" software.</li> <li>ELEC 50A — Electronic Circuits (DC)</li> <li>4 Units<br/>Degree Applicable, CSU</li> <li>54 hours lab</li> <li>Advisory: ELE 51, ELEC 56 taken prior</li> <li>Use of the personal computer for simulation and troubleshooting of<br/>both analog and digital electronic circuits.</li></ul> |
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| academic courses. Students who repeat this course will improve skills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | strategies are applied to their English writing assignments by supporting the student?s strengths and compensating for their weaknesses in writing.  EDUCATION EDUC 10 — Introduction to Education 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ELEC 50A — Electronic Circuits (DC) 4 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>54 hours lab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| ELEC 50B — Electronic Circuits (AC) 4 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>54 hours lab<br>Advisory: ELEC 50A taken prior<br>Alternating Current (AC) electrical circuits and their applications. Covers<br>AC sources, analysis (using complex numbers), test equipment,<br>measurements, and troubleshooting of basic circuits with capacitors,<br>inductors, and resistors. Includes impedance, resonance, filters, and                  | ELEC 55 — Microwave Communications 4 Units<br>Degree Applicable 54 hours lecture 54 hours lab <i>Advisory: ELEC 53 taken prior</i> 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                                                     | ELEC 66 — Electrical Code-Residential 3 Units<br>Not Degree Applicable<br>54 hours lecture<br>Advisory: ELEC 54B taken prior<br>Introduction to the National Electrical Code requirements for residential<br>wiring. Includes interpretation and review of electrical wiring diagrams,<br>material use, installation methods, and calculation of electrical load to<br>size feeders and conductors. Prepares for part of the California State<br>Contractors C-10 Electrician license exam.                                                                                                                                                      |
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| decibels.  ELEC 51 — Electronic Devices 4 Units 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                                                                                                     | techniques.  ELEC 56 — Digital Electronics 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Combinational and sequential logic circuits emphasizing number systems, binary math, basic gates, Boolean algebra, Karnaugh maps, flip-flops, counters, and registers. Stresses design and troubleshooting techniques.                                                                                                                                         | ELEC 74 — Microcontroller Systems 4 Units<br>Degree Applicable, CSU<br>54 hours lab<br>Advisory: ELEC 56 taken prior<br>Microcontroller systems and programming methods; programmable<br>logic devices (PLDs); serial communications; conversion of signals from<br>analog to digital formats and the converse. Industry applications,<br>interfacing, and troubleshooting.                                                                                                                                                                                                                                                                      |
| <ul> <li>lines, characteristics curves, gain, troubleshooting, measurements, and frequency response.</li> <li>ELEC 53 — Communications Circuits 4 Units Degree Applicable</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Advisory: ELEC 51 taken prior</li> <li>Analog and digital communications circuits. Emphasizes analog and</li> </ul>                                                                                                        | Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul> <li>ELEC 76 — Radio Telephone Communications 3 Units<br/>Not Degree Applicable</li> <li>54 hours lecture</li> <li>Prepares qualified electronic technicians for the FCC and/or NARTE<br/>commercial licenses for technicians and engineers in the<br/>communications field.</li> <li>ELEC 81 — Laboratory Studies in Electronics 1 to 2 Units<br/>Technology</li> </ul>                                                                                                                                                                                                                                                                     |
| digital modulation principles, fiber optics, multiplexing, and<br>telecommunications circuits.<br><b>ELEC 54A</b> — Industrial Electronics 4 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>54 hours lab<br><i>Advisory: ELEC 51 taken prior</i><br>Industrial electronic components and basic control circuits. Includes time<br>delay controls, solid-state controls, relays, opto devices, DC motor<br>control, transducers, SCR, and UJT devices. | <ul> <li>ELEC 62 — Advanced Surface Mount Assembly and Rework 2 Units<br/>Degree Applicable</li> <li>(May be taken two times for credit)</li> <li>18 hours lecture</li> <li>54 hours lab</li> <li>Advisory: ELEC 61</li> <li>Advanced course in assembly and repair (soldering) on surface mount<br/>assemblies. Prepares for the IPC surface mount assembly and rework<br/>certifications.</li> <li>ELEC 63 — Electronic Assemblies Recertification 1 Unit</li> </ul> | Degree Applicable         (May be taken four 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<br>Degree Applicable          (May be taken four times for credit)                                                                                                                                                     |
| <b>ELEC 54B</b> — Industrial Electronic Systems<br>3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Advisory: ELEC 54A taken prior<br>Expands on circuit theory and demonstrates systems application of<br>industrial electronics including robotics, industrial production and<br>processes, automation, and programmable and motor controllers.<br>Emphasis is on programmable logic controllers (PLCs).                            | 9 hours lecture<br>27 hours lab<br><i>Prerequisite: ELEC 62</i><br>Prepares the technician as an Application Specialist for the IPC-<br>7711/IPC-7721 Rework and Repair of Electronic Assemblies certification.<br>(Note: Industry requires recertification every two years.)                                                                                                                                                                                          | <ul> <li>(May be taken for Pass/No Pass only)</li> <li>75 to 300 hours lab</li> <li>Prerequisite: Compliance with Work Experience regulations as designated<br/>in the College Catalog</li> <li>Advisory: ELEC 56</li> <li>Provides actual on-the-job experience in Electronics at an approved<br/>work site which is related to classroom instruction. A minimum of five<br/>hours per week of supervised work (60 non-paid clock hours or 75 paid<br/>clock hours per semester) is required for each one unit of credit.</li> <li>Students who repeat this course will improve skills through further<br/>instruction and practice.</li> </ul> |

| ELECTRONICS SYSTEMS TECHNOLOGY                                                                                                                                                                                                                                                                                                                                                                                                | EST 64 — Electronic Troubleshooting - II 4 Units<br>Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                             | EMS 30 — Pharmacology for Paramedics 2 Units<br>Degree Applicable                                                                                                                                                                                                                                                                                                        |
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| ■ EST 50 — Electrical Fundamentals for Cable Installations 4 Units<br>Degree Applicable<br>54 hours lecture<br>54 hours lab<br>Electrical fundamentals for cable and wire installations, and other low<br>voltage systems. Includes DC/AC, solid-state devices, digital and<br>microprocessor devices and their application to cable installations.<br>Prepares students for the California State Contractors C-7 low voltage | 54 hours lecture<br>54 hours lab<br>Advisory: EST 62<br>Troubleshooting advanced electronic video circuits and systems to<br>component level. Includes digital TV and HDTV (plasma, LCD, DLP).<br>EST 70 — C-7 Low Voltage Systems License Preparation 2 Units<br>Degree Applicable                                                                                                                                                                               | 39 hours lecture<br>13 hours lab<br>Prerequisite: Admission to the Paramedic Program<br>Corequisite: EMS 10, EMS 20, EMS 40, EMS 50, and EMS 60<br>Commonly used paramedic drugs, with emphasis on dosages supplied<br>and ordered, routes of administration, expected therapeutic outcomes<br>and possible adverse reactions.                                           |
| systems license.<br><b>EST 52 — Fabrication Techniques for Cable Installation 4 Units</b><br>Degree Applicable<br>54 hours lecture<br>54 hours lab<br>Fabrication techniques used in the installation of home theater,<br>computer networks, home automation, and other low voltage system<br>applications. Emphasis on hand and power tools, construction methods                                                            | 36 hours lecture<br>Advisory: EST 56 or ECWT 56 taken prior<br>Prepares for the California State Contractors C-7 Low Voltage Systems<br>license examination. Students who repeat this course will improve skills<br>through further instruction and practice.<br>EMERGENCY MEDICAL SERVICE<br>EMS 1 — Fundamentals for Paramedics 4 Units                                                                                                                         | EMS 40 — Cardiology for Paramedics 5 Units:<br>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. |
| and materials as they apply to cable and wire installations. Prepares<br>students for the California State Contractors C-7 low voltage systems<br>license.                                                                                                                                                                                                                                                                    | Degree Applicable<br>72 hours lecture<br>Prerequisite: Completed Paramedic Program application, current California<br>EMT I (Basic) certificate, and six months employment as an EMT I<br>Advisory: Eligibility for ENGL 68<br>Overview of emergency medical services (EMS) competencies, current<br>practices, medical terminology, emphasis on applied physiology and<br>structure and function of human body systems. Pre-course for the<br>Paramedic Program. | EMS 50 — Paramedic Skills Competency 5 Units<br>Degree Applicable<br>54 hours lecture<br>108 hours lab<br><i>Prerequisite: Admission to the Paramedic Program</i><br><i>Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 60</i><br>Perfect the paramedic skills required for field operation as a paramedic<br>and for certification in competency-based exams.      |
| Cable and wire standards of video, voice, and data wiring for home theater, computer networks, home automation, telecommunications, and other low voltage system installations. Emphasis on copper wire, coax, fiber optic, and structured cables. Prepares students for the California State Contractors C-7 low voltage systems license.  EST 56 — Home Theater, Home Integration and 4 Units                               | <ul> <li>EMS 10 — Anatomy and Physiology for Paramedics 2 Units<br/>Degree Applicable</li> <li>39 hours lecture</li> <li>Prerequisite: Admission to Paramedic Program and EMS 1</li> <li>Corequisite: EMS 20, EMS 30, EMS 40, EMS 50, and EMS 60</li> <li>Gross anatomy and physiology of the human body, with applications to</li> </ul>                                                                                                                         | ■ EMS 60 — EMS Theory for Paramedics 8.5 Units<br>Degree Applicable<br>156 hours lecture<br>Prerequisite: Admission to the Paramedic Program<br>Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 50<br>Theories and principles of paramedic practices, including assessment<br>skills, care of the sick and injured at a paramedic level, with applications          |
| Home Security Systems Degree Applicable 54 hours lecture                                                                                                                                                                                                                                                                                                                                                                      | paramedic practices.  EMS 20 — Emergency Cardiac Care for Paramedics 1 Unit                                                                                                                                                                                                                                                                                                                                                                                       | to anatomy and physiology, pathologic processes, and mechanism of injury.                                                                                                                                                                                                                                                                                                |
| 54 hours lab<br>Advisory: EST 54<br>Home theater, home integration, and other home management<br>systems. Emphasis on home theater, home management PLCs, security<br>hardware and programming, and the installation and servicing of such<br>systems. Prepares students for the California State Contractors C-7 low<br>voltage systems license.                                                                             | Degree Applicable<br>20 hours lecture<br>6 hours lab<br><i>Prerequisite: Admission to the Paramedic Program</i><br><i>Corequisite: EMS 10, EMS 30, EMS 40, EMS 50, and EMS 60</i><br>Certifies paramedics in Basic Life Support (BLS-CPR), Pediatric Advanced<br>Life Support (PALS), and Advanced Cardiac Life Support (ACLS).                                                                                                                                   | EMS 70 — Paramedic Clinical Internship     4 Units     Degree Applicable     (May be taken for Pass/No Pass only)     215 hours lab     Prerequisite: EMS 1     Corequisite: EMS 60 (May have been taken previously.)     Clinical experience and application of paramedic theory and practice                                                                           |
| EST 62 — Electronic Troubleshooting-I 4 Units<br>Degree Applicable<br>54 hours lecture<br>54 hours lab<br><i>Advisory: EST 56</i><br>Troubleshooting basic electronic circuits and systems to component<br>level. Circuits include: power supplies, amplifiers, audio circuits, home<br>theater audio (Dolby 5.1), and video circuits (analog TV).                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | with an emphasis on patient assessment and utilization of paramedic skills in a hospital setting.                                                                                                                                                                                                                                                                        |

| Degree Applicable(May be taken for Pass/No Pass only)(May be tak<br>72 hours lab<br>Prerequisite: EMS 1 and Successful completion of Los Angeles County<br>accreditation exam(May be tak<br>72 hours le<br>PrerequisiteCorequisite: EMS 70 (may have been taken previously)<br>Application of concepts of paramedic theory and practices, with<br>emphasis on patient assessment and utilization of paramedic skills in a<br>field setting on an operational paramedic unit.(May be tak<br>72 hours le<br>PrerequisiteEMERGENCY MEDICAL TECHNICIAN<br>Degree ApplicableStructure. A<br>and phase of<br>mechanical<br>properties;<br>process; lase135 hours lecture<br>135 hours lab<br>Prerequisite: High school graduation or equivalent and minimum of 18<br>years of age10.5 Units<br>Degree ApplicableApproved by the L.A. County and State Departments of Health.<br>Emphasizes the development of skill in recognition of symptoms of<br>illnesses and injuries, and proper procedures of pre-hospital emergency<br>care. Awards an EMT - I Course Completion Certificate, necessary for<br>many jobs in emergency care and is a prerequisite for entry into a<br>Paramedic program and most fire department jobs.(May be tak<br>36 hours le<br>36 hours le<br>36 hours le | <ul> <li>CHEM 40 or 50 and PHYS 4A or 2AG</li> <li>electrical, magnetic, optical and thermal properties of g materials and their relation to the materials' internal tomic structure and bonding; crystalline structures; phase diagrams; metals; polymers; ceramics; composites;</li> <li>deformation and fracture; structural control and influence of materials naming and designating systems; corrosion ers; semiconductors; electronic packaging materials.</li> <li>8 — Introduction to Engineering Graphics 3 Units Degree Applicable, CSU ken for option of letter grade or Pass/No Pass) ecture b tal engineering graphics and problem solving techniques. ehand and instrument drawing are developed and applied to n of problems. Orthographic, isometric and oblique drawings.</li> <li>4 — Engineering Graphics 4 Units Degree Applicable, CSU, UC ecture</li> </ul> | <ul> <li>ENGR 41 — Dynamics 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Prerequisite: ENGR 40<br/>Absolute and relative motion of particles and rigid bodies in<br/>translational and rotational motion. Instantaneous center of rotation.<br/>Application of Newton's Second Law, work-energy and impulse-<br/>momentum methods. Introduction to mechanical vibrations. Vector<br/>approach.</li> <li>ENGR 42 — Mechanics of Materials 4 Units<br/>Degree Applicable, CSU, UC</li> <li>72 hours lecture<br/>Prerequisite: ENGR 40<br/>Mechanics of deformable bodies subjected to axial, torsional, shearing,<br/>and bending loads. Includes combined stresses, statically indeterminate<br/>structures, deflection and stress analysis of beams, stability of columns,<br/>strain energy methods, and design of pressure vessels and structures.</li> <li>ENGR 44 — Electrical Engineering 4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>54 hours lab<br/>Prerequisite: PHYS 4B<br/>Introduction to electrical circuit analysis; systems of units; applications<br/>of Kirchoff's Laws and Thevenin's Theorems to D-C and A-C circuits</li> </ul>                                                                                                                                                       |
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| <ul> <li><b>EMT 91 — Emergency Medical Technician I Refresher</b> 2 Units<br/>Degree Applicable</li> <li>40 hours lecture</li> <li><i>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</i></li> <li>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</li> <li><b>ENGINEERING</b></li> <li><b>ENGR 1 — Introduction to Engineering</b> 1 Unit friction, more applicable. (SIL UC)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                              | lab         2: ENGR 18 and eligibility for MATH 51         ISB 15         xpression through Computer Assisted Drafting (CAD).         seehand sketching and instrument drawing, orthographic,         nd oblique drawing with dimensioning and tolerancing.         cams, gears, and pipe drawings. Descriptive geometry: points,         planes. Intersections and developments of solids, sheet metal,         nd civil engineering, and surveying drawings.         0 — Statics       3 Units         Degree Applicable, CSU, UC         cture                                                                                                                                                                                                                                                                                                                                  | of Kirchoff's Laws and Thevenin's Theorems to D-C and A-C circuits.<br>Mesh and nodal analysis; RL and RC transients; phasors and steady-state<br>sinusoidal analysis; response as a function of frequency; current, voltage,<br>and power relationships; polyphase circuits; periodic forcing functions;<br>Norton's Theorem; three-phase circuits; periodic forcing functions;<br>Norton's Theorem; three-phase circuits.<br><b>ENGR 99</b> — <b>Special Projects in Engineering 1 to 2 Units</b><br>Not Degree Applicable<br>(May be taken four times for credit)<br>18 to 36 hours lecture<br><i>Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (May have been taken</i><br><i>previously)</i><br>In order to offer selected students recognition for their academic<br>interests and ability and the opportunity to explore their disciplines to<br>greater depth, the various departments from time to time offer special<br>projects courses. The content of each course and the methods of study<br>vary from semester to semester and depend on the particular project<br>under consideration. Student must have instructor's authorization<br>before enrolling in this class. Students who repeat this course will meet<br>with the instructor and make individual contracts of a more advanced<br>nature to ensure that proficiencies are enhanced. |

| ENGL 1BH — English - Introduction to Literary Types 3 Units<br>- Honors Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors<br>Program<br>Critical, oral, and written evaluation, analysis and interpretation of short<br>and long fiction, poetry, and drama. Develops a foundation for personal,<br>cultural, and intellectual growth. An honors course designed to provide | ENGL 8C — Creative Writing - Novel       3 Units         Degree Applicable, CSU, UC       (May be taken for option of letter grade or Pass/No Pass)         54 hours lecture       Prerequisite: 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.  | ENGL 81 — Creative Writing - Nonfiction Collections 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Prerequisite: ENGL 8F<br>Elements, processes, and techniques for creating and writing creative<br>nonfiction collections. Includes forms, theme, voice, style, with an<br>emphasis on student development as a creator of creative nonfiction<br>collections through reading, practice, writing, and discussion.                                                                                      |
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| an enriched experience. May not receive credit for both ENGL 1B and<br>ENGL 1BH.<br>ENGL 1C — Critical Thinking and Writing 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: ENGL 1A or ENGL 1AH<br>Develops critical thinking, reading, and writing skills. Focuses on logical<br>analysis and argumentative writing.<br>ENGL 1CH — Critical Thinking and Writing - Honors 4 Units                                | ■ ENGL 8D — Creative Writing - Poetry Collection 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: ENGL 8B</i><br>Elements, processes, and techniques for creating and writing poetry<br>collections. Includes theme, imagery, line breaks, diction, and prosody,<br>with an emphasis on student development as a creator of poetry<br>collections through practice, writing, and discussion. | 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     Prerequisite: Eligibility 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.                                                 |
| Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors<br>Program<br>Develops critical thinking, reading, and writing skills. Focuses on logical<br>analysis and argumentative writing. An honors course designed to<br>provide an enriched experience. Students may not receive credit for<br>both ENGL 1C and ENGL 1CH.                                                        | <ul> <li>ENGL 8E — Creative Writing - Memoir Degree Applicable, CSU, UC Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture</li> <li>Analysis and writing of memoirs including stylistic and syntactic forms and composition strategies used when writing memoir.</li> <li>ENGL 8F — Creative Writing - Nonfiction 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)</li> </ul>  | <ul> <li>ENGL 9B — Expanding the Personal Journal 3 Units<br/>Degree Applicable</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>54 hours lecture</li> <li>Prerequisite: ENGL 9</li> <li>Emphasizes advanced techniques for journal writing. Students will develop techniques that allow them to turn private work into public pieces. Processes and techniques will be improved through practice and discussion.</li> </ul>                                                                                                                    |
| Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: ENGL 1A or ENGL 1AH</i><br>Elements, processes, and techniques of fiction writing. Includes genre,<br>settings, point of view, character sketch, plot development, description,<br>and dialogue with an emphasis on student development as a writer of<br>fiction through practice and discussion.           | <ul> <li>54 hours lecture         <i>Prerequisite: ENGL 1A</i>         Analysis and writing of creative nonfiction including stylistic and         syntactic forms and composition strategies used when writing creative         nonfiction.         <ul> <li><b>ENGL 8G</b> — Creative Writing-Memoir Collection 3 Units</li></ul></li></ul>                                                                                                                                 | ENGL 64 — Writing Effective Sentences     1 Un     Not Degree Applicat     (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                                                                                                                                                                                                                       |
| ■ ENGL 8B — Creative Writing - Poetry 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: ENGL 1A or ENGL 1AH</i><br>Emphasizes the student's development as a poet.                                                                                                                                                                                  | Wind be taken for option of letter grade of Pass/No Pass/<br>54 hours lecture<br><i>Prerequisite: ENGL 8E</i><br>Development of memoir writing with emphasis on developing a<br>memoir collection. Includes setting, character development, dialogue,<br>theme, voice, laws and ethics, and publication with an emphasis of<br>student development as a writer of a complete book length memoir<br>collection through reading, practice and discussion.                       | common sentence problems, such as comma splice, fragment, and run-<br>on.<br><b>ENGL 65 — Grammar Review 1 Unit</b> 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. |

| <ul> <li>ENGL 66 — Paragraph Writing 1 Unit<br/>Not Degree Applicable</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>18 hours lecture</li> <li>Analysis and writing of paragraphs. Through the process of writing, the<br/>student learns to state and support a topic idea. Students who repeat<br/>this course will improve skills through further instruction and practice.</li> <li>ENGL 67 — Writing Fundamentals 4 Units<br/>Not Degree Applicable</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lecture</li> <li>Prerequisite: Satisfactory score on the English Placement Test or<br/>completion of AMLA 42W or completion of LERN 81</li> <li>Using an integrated approach, develops effective writing based on</li> </ul> | ENGL 99 — Special Projects in English 2 Units<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>To offer selected students recognition for their academic interests and<br>ability and the opportunity to explore their disciplines to greater depth,<br>the various departments from time to time offer Special Projects<br>courses. The content of each course and the methods of study vary from<br>semester to semester and depend on the particular project under<br>consideration. Students repeating this course will make individual<br>contracts of a more advanced nature with the instructor to ensure that<br>proficiencies are enhanced.<br>ENGLISH: LITERATURE | <ul> <li>LIT 6B — Survey of English Literature 3 Units:<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: ENGL 1A<br/>A chronological study of major works from the Romantic Era through<br/>the Victorian and Modern periods to contemporary texts.</li> <li>LIT 10 — Survey of Shakespeare 3 Units:<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: ENGL 1A<br/>Surveys Shakespeare's histories, tragedies, comedies, and selected<br/>sonnets with their historical and literary context, emphasizing their</li> </ul> |
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| reading; emphasizing the sentence, the outline, the summary, the<br>paragraph and an introduction to the essay. Gives attention to grammar,<br>punctuation and vocabulary. Develops critical thinking through reading<br>comprehension in conjunction with related writing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LIT 1 — Early American Literature 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: ENGL 1A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | relevance to contemporary culture and values.  ILIT 11A — World Literature to 1650 3 United Degree Applicable, CSU, UC 54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ul> <li>ENGL 68 — Preparation for College Writing</li> <li>4 Units<br/>Degree Applicable</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>72 hours lecture</li> <li>Prerequisite: ENGL 67 or AMLA 43W or satisfactory score on the English<br/>Placement Test</li> <li>Using an integrated approach, continues to develop effective writing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                            | American literature of the Seventeenth, Eighteenth, and Nineteenth<br>Centuries. Emphasizes writers who created an American literary identity<br>and shaped America's cultural mythology.<br><b>LIT 2 — Modern American Literature</b><br>Segree Applicable, CSU, UC<br>54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Prerequisite: ENGL 1A<br>Surveys works of classical Greece through the Renaissance. Emphasizes<br>the interrelationship of literature, art, society, politics, philosophies and<br>general culture.<br>LIT 11B — World Literature from 1650 3 Unit:<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul> <li>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.</li> <li>ENGL 75 — Vocabulary Building 3 Units</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Prerequisite: ENGL 1A<br>Emphasizes characteristic late 19th, 20th, and 21st century concerns as<br>they relate to American literary form and content.<br>LIT 3 — Multicultural American Literature 3 Units<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 54 hours lecture<br>Prerequisite: ENGL 1A<br>Works and ideas from 1650 through the 21st century emphasizing<br>those works which not only reflect qualities of universal greatness but<br>also the thought and spirit of the ages in which they were written.<br>Emphasizes how art, society, politics, philosophies and general culture                                                                                                                                                                                                                                                                                                                                                        |
| Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Expands students' reading, writing and speaking vocabularies through<br>examination of the principles of word formation, emphasizing prefixes,<br>roots, suffixes and the effective use of dictionaries and other reference<br>works. Students who repeat this course will improve skills through<br>further instruction and practice.<br>ENGL 81 — Language Acquisition 3 Units                                                                                                                                                                                                                                                                                                    | 54 hours lecture<br>Prerequisite: ENGL 68 or passing score on current placement test<br>Analyzes the representative contributions of three or four diverse groups<br>to American literature and culture. Covering a wide spectrum of<br>historical periods and literary genres, the course will focus on issues of<br>ethnic identity, assimilation, acculturation, cultural pluralism, and family<br>and gender roles in order to heighten awareness of diversity in America.<br>Representative literature groups may include African American, Hispanic<br>American, Native American, Asian American, Gay and Lesbian American,<br>disability groups and religious groups.                                                                                                     | are interrelated and reflected in the literature of these different eras.  LIT 14 — Introduction to Modern Poetry 3 Units Degree Applicable, CSU, UC S4 hours lecture Prerequisite: ENGL 1A Examines the significant poetry of England and America in the 20th and 21st centuries, with the major emphasis on contemporary poems.  LIT 15 — Introduction to Cinema 3 Units                                                                                                                                                                                                                                                                                                                      |
| 254 hours lecture<br><i>Prerequisite: ENGL 1A</i><br>Language structure, linguistics, language development. Explores first<br>and second-language acquisition as it pertains to K-12 learners. Meets<br>the Commission on Teaching Credentialing standards for Language<br>Acquisition requirement for elementary school teaching credential.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: ENGL 1A</i><br>Explores the broad range of human experience inherent in the study of<br>film as art. Using a number of films drawn from various genres,<br>examines film from historical, social, technological and aesthetic<br>perspectives.                                                                                                                                                                                                                                                                                                                                                                               |

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| <ul> <li>LIT 20 — African American Literature 3 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: ENGL 1A<br/>Surveys Eighteenth through Twenty-first Century writings of African<br/>Americans. Emphasizes the oral tradition, development of protest<br/>literature and major modern and contemporary writers such as Wright,<br/>Ellison, Baldwin, Walker, and Morrison.</li> <li>LIT 25 — Contemporary Mexican American Literature 3 Units</li> </ul> | LIT 47 — The Bible as Literature: New Testament 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: ENGL 1A</i><br>Considers the Bible as a collection of literary texts and applies the<br>principles of literary and historical analysis to selected books of the Old<br>Testament and the New Testament.<br>FAMILY AND CONSUMER SCIENCES<br>FCS 41 — Life Management 3 Units                                                                                                                                                     | Consumer Sciences<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 to 225 hours lab<br><i>Prerequisite: Compliance with work experience regulations as designated</i><br><i>in the College Catalog.</i><br>Provides Family and Consumer Science majors with actual on-the-job<br>experience in an approved work site related to classroom instruction. A                                                                                       |
| ■ LIT 25 — Contemporary Mexican American Literature 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: ENGL 1A</i><br>Issues of contemporary Mexican-American literature, drama, and film.<br>Includes discussion of the roles played by gender, religion, language,<br>education, family, ethnic identity, and class. Also addresses application of<br>literary tools such as symbolism, language, and theme.                                            | Degree Applicable, CSU<br>54 hours lecture<br>Life Management provides individuals with skills for understanding and<br>using resources for effective functioning now and in the future. Explores<br>theories of management including Maslow's Hierarchy of Needs and<br>systems thinking, and how they apply to the day-to-day use of one's<br>resources including time, energy, abilities, and money. Major topics<br>include steps in value clarification, goal setting, decision making,<br>problem solving, time management, money management, education | 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 8 — Introduction to Fashion 3 Units |
| ■ LIT 36 — Introduction to Mythology 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: ENGL 1A</i><br>A survey of major myths, including creation, fertility, and hero myths.<br>Explores theories and approaches to these archetypal stories and the<br>ways that they reflect and shape culture. Emphasis is on classical myths,<br>but myths from around the world may be included.                                                                                                                                | and career planning, communication skills, handling change and stress,<br>and conflict management. In addition, the course explores the effect of<br>cultural forces and future trends on goals, values, standards, and time<br>management.<br><b>FCS 51 — Consumer Skills, Issues, and Strategies</b><br>Junts<br>Degree Applicable, CSU<br>54 hours lecture                                                                                                                                                                                                 | Degree Applicable, CSU<br>54 hours lecture<br>Examines scope of the fashion industry from concept to consumer:<br>industry background and technology. Includes design, manufacturing,<br>distribution, sales and promotion with emphasis on career opportunities<br>and qualifications.<br>FASH 9 — History of Costume and Fashion 3 Units                                                                                                                                                               |
| LIT 40 — Children's Literature 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Prerequisite: ENGL 1A                                                                                                                                                                                                                                                                                                                                                                        | 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.                                                                                                                                                                                                                                            | Degree Applicable, CSU<br>54 hours lecture<br>Survey of Western costume and fashion from antiquity to contemporary<br>times. Emphasis is placed on style development as it relates to social,<br>economic and political forces, and the relationship of historic styles to<br>current fashion.                                                                                                                                                                                                           |
| 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 3 Units Degree Applicable, CSU, UC 54 hours lecture                                                   | ■ FCS 80 — Personal Financial Planning 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Personal and family financial planning for those who wish to<br>understand their own finances across the lifespan and assist others in<br>money management. Topics include financial goal setting, budgeting,<br>consumer credit, debt management, banking functions, income taxes,<br>home ownership, insurance, investing, and retirement planning.<br>Students may not earn credit for both BUSA 71 and FCS 80.                                            | FASH 10 — Clothing Construction I 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Development of a basic understanding of industry standard apparel<br>construction techniques using a variety of machines and equipment.<br>Included are marker preparation, commercial patterns, basic block<br>fusing, and garment construction of slim skirt/pants, dress/shirt, and<br>knit "T" shirt.                                                                                     |
| <i>Prerequisite: ENGL 1A</i><br>Considers the Bible as a collection of literary texts and applies the<br>principles of literary historical analysis to the Old Testament.                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ■ FASH 12 — Clothing Construction II 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: FASH 10</i><br>Industry-quick alternatives to traditional construction and tailoring<br>techniques using overlock and single needle machines. Hands-on<br>experience using woven fabrics for tailored clothing and novelty knits.                                                                                                                                         |

| <ul> <li>FASH 15 — Fashion and Identity</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>Sociological, psychological, cultural, and fashion industry influences on<br/>clothing design and selection. The elements and principles of design<br/>and their impact on apparel selection will be explored.</li> <li>FASH 17 — Textiles</li> <li>3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Manufacturing of textiles and fabrics and the factors that determine the<br/>suitability for end use. Topics include natural and synthetic fibers, yarns,<br/>fabric construction, dyes, finishes, legislation, and care. Emphasis is on<br/>selection criteria for textile product design and recent developments in<br/>the textile field.</li> <li>FASH 20 — Illustration for Fashion and Costume Design 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Drawing techniques for fashion and theatrical costume design.<br/>Application of the basic techniques used in drawing a well-proportioned<br/>male and female figure and in rendering garment flats using texture,<br/>fabric, and design detail. Students will explore a variety of mediums.</li> <li>FASH 21 — Pattermaking I 3 Units<br/>Degree Applicable, CSU</li> <li>26 hours lecture</li> </ul> | <ul> <li>FASH 24 — Fashion Patternmaking by Computer 3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>54 hours lab<br/>Advisory: FASH 21<br/>Industrial fashion patternmaking and grading using Gerber Computer<br/>Aided Design (CAD) technology. Exploration of drawing techniques,<br/>pattern development, flat pattern manipulation and the sizing and<br/>grading of patterns.</li> <li>FASH 25 — Fashion Computer-Assisted Drawing 3 Units<br/>Degree Applicable, CSU<br/>36 hours lecture<br/>54 hours lab<br/>Advisory: FASH 20<br/>Technical fashion drawing techniques using Adobe Illustrator and<br/>Photoshop. Includes drawing production flats, colorization and scanning<br/>images using computer as a drafting tool. Exploration of popular<br/>computer techniques and methods suitable for use in apparel industry.</li> <li>FASH 26 — Fashion Computer Assisted Design 2 Units<br/>Degree Applicable</li> <li>18 hours lecture<br/>54 hours lab<br/>Use an advanced, industry-specific CAD system to produce high-level<br/>graphic presentations. Create color palettes, textiles, and surface<br/>designs; explore texture mapping and how it is used to create a natural</li> </ul> | <ul> <li>FASH 32 — Fashion Design and Product Development III 3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: FASH 31</li> <li>Advanced fashion design and product development emphasizing, in<br/>portfolio format, a minimum of three lines with production flats, scale<br/>patterns, pattern charts, cost sheets and sample garments. A design<br/>sketchbook will be maintained. Includes resume preparation and job<br/>search appropriate for the fashion design industry.</li> <li>FASH 35 — Special Topics in Fashion Design 2 Units<br/>Degree Applicable</li> <li>(May be taken four times for credit)</li> <li>18 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: FASH 10</li> <li>Provides exploratory design experience to enhance basic fashion design<br/>curriculum. Students will explore advanced garment design and/or<br/>construction techniques. Students who repeat this course will improve<br/>skills through further instruction and practice.</li> <li>FASH 62 — Retail Store Management and Merchandising 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>Principles and practices used in the management and merchandising of<br/>retail stores. Includes all aspects of the critical buying function,</li> </ul> |
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| 36 hours lecture<br>54 hours lab<br>Prerequisite: FASH 10<br>Theory and application of basic flat patternmaking techniques to create<br>garment designs using industry standards. By means of dart and seam<br>manipulation, slopers will be created, constructed and fitted.<br><b>FASH 22 — Fashion Design By Draping</b><br>3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br>Prerequisite: FASH 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | drape on the fashion figure; and use the computer as a layout design<br>tool for swatches and vector flat drawings.<br><b>FASH 30 — Fashion Design and Product Development I 3 Units</b><br>Degree Applicable<br>54 hours lecture<br><i>Advisory: FASH 15 and FASH 60</i><br>Overview of the global environment for product development for<br>fashion. Applies the concepts and methods by which retailers create<br>special store-branded merchandise for targeted customer segments.<br>Students will develop financial and design goals, create product concept<br>and line-boards, and evaluate the aesthetic and commercial results.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | merchandising, promotional techniques, site selection, layout, staffing,<br>market positioning and customer service. Students may not receive<br>credit for both FASH 62 and BUSS 50.<br>FASH 63 — Advertising and Promotion 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Characteristics and role of advertising and promotion in business.<br>Emphasis is placed on promotional mix, trend and forecast research, and<br>developing a comprehensive multimedia promotion plan including<br>advertising layout and copy. Students may not receive credit for both<br>FASH 63 and BUSS 33.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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 <i>Prerequisite: FASH 21</i> Intermediate pattern drafting and flat patternmaking, with an introduction to the sizing and grading of patterns. 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 31 — Fashion Design and Product Development II 3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: (FASH 20 or 25) and (FASH 21 or 22) and FASH 30</i><br>Industrial techniques of drawing production flats and design room<br>sketches with a focus on swim wear, active wear, children's and junior<br>clothing, and the full-fashion figure. Includes creation and maintenance<br>of a personal design sketchbook, development of customer-specific<br>fashion lines, textile selection, cost sheet development, full-color<br>illustrating, full-scale patternmaking, and garment construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ■ FASH 66 — Visual Merchandising Display 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Analysis of visual merchandising applied to interior and exterior displays<br>and floor merchandising within the fashion industry. Includes<br>psychology of store layout, current methods of visual merchandising,<br>and use of mannequins, pinning, and flying.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| this course will improve skills through further instruction and practice.       IFIRE 2 — Fire Prevention Technology       3 Units         Degree Applicable       1 Unit       Degree Applicable       54 hours lecture       Degree Applicable         May be taken four times for credit)       18 hours lecture       54 hours lecture       54 hours lecture         Pre-trip lectures on the development of the ready-to-wear industry inducting background information on specific designer studio, factories, studing to thazards, investigation, and safety education.       IFIRE 3 — Fire Protection Equipment and Systems       3 Units         St hours lecture       A hours lecture       A hours lecture       A hours lecture         Advisory: FIRE 1       Research and the store of | <ul> <li>FASH 90 — Field Studies 1 Unit Degree Applicable (May be taken four times for credit) 18 hours lecture</li> <li>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.</li> <li>FASH 91 — Field Studies - New York 2 Units Degree Applicable (May be taken four times for credit) 36 hours lecture (Orequisite: FASH 90 (may have been taken previously)) Fashion industry travel study in New York City with daily scheduled lectures and field studies of the diverse fashion industries to include major designers, fashion trend services, retailers, manufacturers, costume/textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice.</li> <li>FASH 92 — Field Studies - Fashion Capitals 3 Units Degree Applicable (May be taken four times for credit) 54 hours lecture (Orequisite: FASH 90 (may have been taken previously)) Fashion industry travel study to fashion capitals with daily scheduled lectures and field studies of the diverse international industry to include designers, fashion trend services, retailers, manufacturers, textile mills, costume textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice.</li> </ul> | 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.         Image: Fire Fire Prevention Technology       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.         Image: Fire Fire Protection Equipment and Systems       3 Units         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.         Image: FIRE 4 — Building Construction for Fire Protection 1 Units         Degree Applicable, CSU         54 hours lecture         Advisory: FIRE 1         Building construction and fire code safety effects on preplanning, engineering, inspections, fire ground operations, fire and building codes relationships.         Image: Fire Fire Behavior and Combustion       3 Units         Degree Applicable, CSU         54 hours lecture         Advisory: FIRE 1         Building construction and fire code safety effects on preplanning, engineering, inspections, fire | Advisory: FIRE 1         Review of fire department organization, fire company organization, fire equipment, maintenance, training, fire prevention, fire fighting, compant fire fighting capability, records and reports.         Image: FIRE 9 - Fire Hydraulics       3 Unite Degree Applicable, CS         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         Image: FIRE 10 - Arson and Fire Investigation       3 Unite Degree Applicable, CS         54 hours lecture       Advisory: FIRE 1 or equivalent taken prior         Introduction to cause, origin, arson, incendiarism, related laws and type of incendiary fires. Methods of determining fire cause, recognizing and preserving evidence, interviewing and detaining witnesses, procedures for handling juveniles, court procedure and testimony.         Image: FIRE 11 - Fire Apparatus and Equipment       3 Unite Degree Applicable, CS         54 hours lecture       Advisory: FIRE 1 or equivalent taken prior         Introduction to cause, origin, arson, incendiarism, related laws and type of incendiary fires. Methods of determining fire cause, recognizing and preserving evidence, interviewing and detaining witnesses, procedures for handling juveniles, court procedure and testimony.         Image: FIRE 11 - Fire Apparatus and Equipment       3 Unite Degree Applicable, CS         54 hours lecture       Advisor |
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| FIRE 86 — Basic Fire Academy       14.5 Units         Degree Applicable         135 hours lab         Prerequisite: FIRE 1 through FIRE 6 or equivalent, PE 50 or equivalent, EMT         cartified, and either PE-F 50 or PE-F 51 or PE-F 52 (or equivalent)         Corequisite: PE-F 53         nstruction 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 91 — Fire Academy Ladders       1 Unit         May be taken for Pass/No Pass only)         3 hours lecture       2 Units         Degree Applicable       May be taken four times for credit)         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 elated to classroom instruction. A minimum of 75 paid or 60 non-paid lock hours per semester of supervised work is required for each unit of reducting a minimum of 12 units in fire service. Students who repeat this course will improve skills through further instruction and practice.         FRENCH       FRENCH       4 Units Degree Applicable, CSU, | Expansion of vocabulary and structural components. Further<br>development of communicative proficiency with increasing emphasis on<br>reading and writing. Extensive exposure to culture from France and<br>other French-speaking countries.<br>FRCH 4 — Continuing Intermediate French 4 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass) | <ul> <li>FRCH 6 — Continuing Advanced French 4 Unit:<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lecture<br/>Prerequisite: FRCH 5 or equivalent<br/>Extensive reading and analysis of short literary works from diverse<br/>French and French-speaking cultures. Discussion of films, newspaper<br/>articles and contemporary topics. Develops fluency in French through<br/>group discussions, oral presentations, and writing.</li> <li>FRCH 53 — Intermediate Conversational French 3 Unit:<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: FRCH 2 or equivalent<br/>Develops intermediate level fluency through expansion of vocabulary<br/>and practical use of language.</li> <li>FRCH 54 — Continuing Intermediate Conversational French 3 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: FRCH 3 or FRCH 53 or equivalent<br/>Develops intermediate-high fluency through further expansion of<br/>vocabulary and practical use of language.</li> <li>FRCH 60 — French Culture Through Cinema 3 Unit:<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: FRCH 3 or FRCH 53 or equivalent<br/>Develops intermediate-high fluency through further expansion of<br/>vocabulary and practical use of language.</li> <li>FRCH 60 — French Culture Through Cinema 3 Unit:<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>French culture and history as presented in classic and recent French<br/>films. Analysis of characters and political, social and artistic movements<br/>in France and other Francophone countries as reflected in the works of<br/>French-speaking film directors and writers. Lectures and class<br/>discussions conducted in English. All films with English subtitles.</li> <li>GEOGRAPHY</li> <li>GEOG 1 — Elements of Physical Geography 3 Unit:<br/>Degree Applicable, CSU, UC<br/>54 hours lecture<br/>Prerequisi</li></ul> |
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| <ul> <li>If GEG 1 L — Physical Geography Laboratory</li> <li>If the geographical analysis of past and current problems.</li> <li>If the geographical analysis of past and current problems.</li> <li>If the geographical call and geography call and call and the geographical call and geographical call call and geographical call and geographical call and geographical call call call call call call call</li></ul> | ■ GEOG 1H — Elements of Physical Geography - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Study of the natural processes that interact to create the Earth's varying<br>physical environments with emphasis on the inter-relationships of<br>natural processes and systems. General atmospheric circulation, Earth-<br>sun relationships, oceanic circulation, water and energy budgets, plate<br>tectonics, and the shaping of the physical landscape. An honors course<br>designed to provide an enriched experience. Students may not receive<br>credit for both GEOG 1 and GEOG 1H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul> <li>GEOG 5 — World Regional Geography 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Advisory: Eligibility for ENGL 68<br/>Developmental study of the world's regions, addressing the major<br/>countries in terms of population, resources, economic development,<br/>physical environment, and geographic problems.</li> <li>GEOG 8 — The Urban World 3 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ■ GEOG 30H — Geography of California - Honors 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Thematic approach to issues, processes, and topics relevant to the study<br>of California geography. Includes an examination of the physical<br>processes that shape the landscapes of California, the interaction of<br>humans with these physical processes (particularly the importance of<br>water), and the cultural and social landscapes that have evolved as a<br>result of this human-environment interface. An honors course designed<br>to provide an enriched experience. Students may not receive credit for<br>both GEOG 30 and GEOG 30H. Field trip required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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Image: GEOG 1LH — Physical Geography Laboratory - Honors 1 Unit Degree Applicable, CSU, UC         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 GEOG 1L and GEOG 1LH.         Image: GEOG 2 — Human Geography       3 Units         Degree Applicable, CSU, UC       54 hours lecture         Prerequisite: Eligibility for ENGL 68       Introduction to human geography with emphasis on critical areas of inquiry and research. Focus on the interconnections of place and process in several sites around the globe; comprehension of important terms and concepts; and basic literacy in the geography of place names and in world regional understanding.         Image: 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 imp | The geographical analysis of past and current patterns of world<br>urbanization. Emphasis will be placed on city origins, growth,<br>development, and current problems.<br><b>I GEOG 10</b> — Introduction to Geographic<br>Information Systems<br>Degree Applicable, CSU, UC<br>36 hours lecture<br>54 hours lab<br>Advisory: Eligibility for ENGL 68<br>Hands-on training in the principles, theory and operations of<br>geographic information systems (GIS), including geospatial data models,<br>analytical functions, data quality, map design and visual<br>communication, and social and environmental applications of GIS.<br><b>I GEOG 11</b> — Intermediate GIS<br>54 hours lecture<br>Prerequisite: GEOG 10<br>Surveys GIS fundamentals including hands on experience using<br>hardware/software. Emphasizes vector-based data using ArcGIS and<br>raster-based data using the software extensions.<br><b>I GEOG 30</b> — Geography of California<br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Thematic approach to issues, processes and topics relevant to the study<br>of California. Includes an examination of the physical processes that<br>shape the landscapes of California, the interaction of humans with<br>these physical processes (particularly the importance of water), and the<br>cultural and social landscapes that have evolved as a result of this | Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>Increases awareness and appreciation for civic responsibility to the<br>environment through service learning. Students will assess the need for<br>restoring significant habitats damaged by pollution, fire, erosion, or<br>invasive species and learn the importance of being good stewards of<br>the environment. Field trips required.<br><b>GEOG 91L</b> — <b>Geography Service Learning Laboratory 0.5-2 Units</b><br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>27 to 108 hours lab<br><i>Corequisite: GEOG 91 (May have been previously taken)</i><br>Examines and addresses environmental needs of the community<br>through service learning projects. Students will perform work needed<br>for restoring significant habitats damaged by pollution, fire, erosion or<br>invasive species. Examples of some of the work include planting trees,<br>building trails, or collecting litter. Field trips required.<br><b>GEOG 99</b> — <b>Special Projects in Geography 2 Units</b><br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>36 hours lecture<br>Offers selected students recognition for their academic interest and<br>ability and the opportunity to explore their disciplines in depth. Various<br>departments sometimes offer Special Projects courses. The content of<br>each and the methods of study vary from semester to semester and<br>depend on the particular project under consideration. Students<br>repeating this course will make individual contracts of a more advanced |

| GEOLOGY<br>GEOL 1 — Physical Geology<br>4 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>54 hours lab<br>Prerequisite: Eligibility for MATH 51<br>An introduction to geological thinking and Earth processes. Essentials of<br>minerals, rocks, earthquakes, volcanoes, and landscapes are presented<br>within a framework of plate tectonics operating in concert with                                                                                                                                                                                                                                 | 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                                                                | GEOL 29 — Special Topics in Field Geology 3 Unit:<br>Degree Applicable<br>(May be taken four times for credit)<br>18 hours lecture<br>108 hours lab<br>Advisory: GEOL 1 or GEOL 8<br>Field studies of designated geologic provinces and regions. Emphasis on<br>rock identification and interpretation of geologic histories of field areas.<br>Extended overnight field trips, camping, and strenuous hiking required.                                                                                                                                      |
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| atmosphere and ocean processes. A required course for students<br>entering the geosciences major. May be taken by the non-major as a<br>transferable lab science. Required field trips may involve overnight<br>camping.<br><b>GEOL 2 — Historical Geology</b><br>4 Units<br>Degree Applicable, CSU, UC<br>54 hours lab<br><i>Prerequisite: GEOL 1 or equivalent</i>                                                                                                                                                                                                                                                | 54 hours lecture<br>For non-science majors. Relevant aspects of the geological environment<br>and the problems caused by modern humans as they use the earth and<br>its resources. Geologic hazards, including earthquakes, volcanoes,<br>landslides, floods, subsidence. Emphasis on geological viewpoints<br>concerning waste disposal, pollution, geothermal energy, fossil fuels, and<br>mining. Geologic practices related to sound land management,<br>conservation of resources, and protection of the environment. Field trips<br>included. | ■ GEOL 99 — Special Projects in Geology 2 Unit:<br>Degree Applicable, CSU<br>36 hours lecture<br>In order to offer students the opportunity to explore their disciplines to<br>greater depth, the various departments from time to time offer Special<br>Projects courses. The content of each course and the methods of study<br>vary from semester to semester, and depend on the particular project<br>under consideration. Students must have an instructor's authorization<br>before enrolling in this course. Students repeating this course will make |
| 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.<br><b>Geology of California</b>                                                                                                                                                                                                                                         | ■ GEOL 10 — Natural Disasters 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Surveys the hazards faced by humans from the natural environment.<br>Analyzes a variety of hazards from a geological perspective. Studies the<br>impact humans have on influencing or exacerbating natural disasters.<br>Includes the role of government in responding to natural disasters. Field                                                                                                                                                       | individual contracts of a more advanced nature to ensure that<br>proficiencies are enhanced.<br>GERMAN<br>GERM 1 — Elementary German<br>Degree Applicable, CSU, UC<br>72 hours lecture                                                                                                                                                                                                                                                                                                                                                                       |
| Degree Applicable, CSU, UC<br>54 hours lecture<br>Introductory geology course highlighting the natural provinces of<br>California, namely their mineral, rock, and petroleum resources,<br>volcanoes and earthquakes, landscapes, and geologic history as<br>influenced by plate tectonic and surface processes. Field trips are<br>required and may involve overnight camping.                                                                                                                                                                                                                                     | trips included.   Geologic Field Studies: Central California 4 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab                                                                                                                                                                                                                                                                                                                                                                 | For students with no previous German. Develops the ability to converse, read, and write in German. Emphasis on oral proficiency. Includes essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Germanic culture.  Germa 2 — Continuing Elementary German 4 Unit: Degree Applicable, CSU, UC                                                                                                                                                                                                             |
| ■ GEOL 8 — Earth Science 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>A survey course that introduces fundamentals of geology, oceanography,<br>meteorology, and astronomy. The companion Earth Science laboratory<br>(GEOL 8L) is recommended for students needing a lab to transfer to a                                                                                                                                                                                                                                                                                                          | Field studies of selected central California geological provinces and surrounding areas. Overnight field trips required. Trips require significant hiking.  GEOL 25 — Geologic Field Studies: Southern California 4 Units Degree Applicable, CSU                                                                                                                                                                                                                                                                                                    | 72 hours lecture<br><i>Prerequisite: GERM 1 or equivalent</i><br>Further development of conversational reading and writing skills in<br>German with emphasis on communication skills, expansion of<br>vocabulary, and understanding of structure. Further study of Germanic<br>culture.                                                                                                                                                                                                                                                                      |
| <ul> <li>4-year college/university. Field trips are required.</li> <li>GEOL 8H — Earth Science - Honors Degree Applicable, CSU, UC S4 hours lecture</li> <li>Prerequisite: Acceptance into the Honors Program</li> <li>An honors course designed to provide an enriched experience.</li> <li>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.</li> </ul> | 54 hours lecture<br>54 hours lab<br>Field studies of selected southern California geological provinces and<br>surrounding areas. Overnight field trips required. Trips require significant<br>hiking.                                                                                                                                                                                                                                                                                                                                               | ■ GERM 3 — Intermediate German 4 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br><i>Prerequisite: GERM 2 or three years of high school German or equivalent</i><br>Further development of communicative proficiency in German and<br>exploration of Germanic culture. Further study and review of grammar<br>and expansion of vocabulary. Increasing emphasis on reading and<br>writing in German.                                                                                   |

| HISTORY         HIST 1 — History of the United States       3 Units<br>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<br>present designed for transfer students who need a one-semester course<br>in United States history to meet general education requirements. (Social<br>Science majors should take History 7-8.) Satisfies the requirement for a<br>course in American history, including the study of American institutions<br>and ideals as required by Title 5 of the California Administrative Code.         HIST 3 — World History: Prehistoric to Early Modern       3 Units | ■ HIST 7 — History of the United States 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 1A</i><br>Survey of American history from Native American origins through post-<br>Civil War Reconstruction with an encompassing approach to the United<br>States and its major ethnic and social groups. Explores the influence of<br>the geography and environment of North America and the ethnic,<br>social, and religious complexity of the population. Also examines<br>political, philosophical, and intellectual influences on the founding<br>fathers, American political institutions, and the citizens of the country.<br>Satisfies the requirement for a course in American history, including the<br>study of American institutions and ideas and the Constitution of the | ■ HIST 8H — History of the United States - Honors 3 Unit<br>Degree Applicable, CSU, U<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Survey of American history from 1865 to the present. Designed for<br>history, social science, or humanities majors, or for transfer students<br>who need a year course in United States history to meet general<br>education requirements. Satisfies the requirement for a course in<br>American history, including the study of American institutions and<br>ideals and the principles of State and local government as required by<br>Title 5 of the California Administrative Code. An honors course designed<br>to provide an enriched experience. Students may not receive credit for<br>both HIST 8 and HIST 8H. |
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| Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 1A</i><br>Human societies from their origins to the Early Modern period from a<br>global and comparative perspective including social, political, economic,<br>and cultural institutions and changes.                                                                                                                                                                                                                                                                                                                                                                                                                             | United States as required by Title 5 of the California Administrative<br>Code.<br>HIST 7H — History of the United States - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Acceptance into the Honors Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HIST 10 — History of Asia 3 Unit:<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Survey history of China, Japan, India, South Asia, and Southeast Asia<br>from the pre-historical era to 1600. Topics include Asian mysticism and<br>religions, art and literature, warfare and political systems, the splendor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ■ HIST 3H — World History: Prehistoric to Early Modern 3 Units<br>- Honors Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Acceptance into the Honors Program<br>Human societies from their origins to the Early Modern period from a<br>global and comparative perspective including social, political, economic,<br>and cultural institutions and changes. An honors course designed to<br>provide an enriched experience. Students may not receive credit for<br>both HIST 3 and HIST 3H.                                                                                                                                                                                                              | Survey of American history from Native American origins through post-<br>Civil War Reconstruction with an encompassing approach to the United<br>States and its major ethnic and social groups. Explores the influence of<br>the geography and environment of North America and the ethnic,<br>social, and religious complexity of the population. Also examines<br>political, philosophical, and intellectual influences on the founding<br>fathers, American political institutions, and the citizens of the country.<br>Satisfies the requirement for a course in American history, including the<br>study of American institutions and ideas and the Constitution of the<br>United States as required by Title 5 of the California Administrative                                                                             | of the imperial courts, and the lives of the peasants.<br>HIST 11 — History of Asia 3 Unit Degree Applicable, CSU, Ut S4 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.                                                                                                                                                                                                                                                                                                                      |
| <ul> <li>HIST 4 — World History: Early Modern to the Present Degree Applicable, CSU, UC Degree Applicable, CSU, UC S4 hours lecture Prerequisite: Eligibility for ENGL 1A Social, political, economic, and cultural changes during the modern period from a global and comparative perspective.</li> <li>HIST 4H — World History: Early Modern to the Present 3 Units - Honors</li> </ul>                                                                                                                                                                                                                                                                                                                                 | Code. An honors course designed to provide an enriched experience.<br>Students may not receive credit for both HIST 7 and HIST 7H.<br>HIST 8 — History of the United States 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Eligibility for ENGL 1A<br>Survey of American history from 1865 to the present. Designed for<br>history, social science, or humanities majors, or for transfer students<br>who need a year course in United States history to meet general                                                                                                                                                                                                                                                                                                                                 | <ul> <li>HIST 16 — The Wild West - A History, 1800-1890 3 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/><i>Prerequisite: Eligibility for ENGL 68</i><br/>Surveys the history of the Trans-Mississippi West to acquaint students<br/>with the historical significance, events and personalities which make up<br/>19th Century American history.</li> <li>HIST 19 — History of Mexico 3 Units</li> </ul>                                                                                                                                                                                                                                                                                                          |
| Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Social, political, economic, and cultural change during the modern<br>period from a global and comparative perspective. Includes extensive<br>reading and writing assignments. Students may not receive credit for<br>both HIST 4 and HIST 4H.                                                                                                                                                                                                                                                                                                                                                               | education requirements. Satisfies the requirement for a course in<br>American history, including the study of American institutions and<br>ideals and the principles of State and local government as required by<br>Title 5 of the California Administrative Code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Degree Applicable, CSU, UC<br>54 hours lecture<br>The cultural and social history of the Mexican people from pre-<br>Colombian civilization to modern Mexico.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| HIST 30 — History of the African American 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>In the general framework of the U.S. historical process, surveys the<br>history of African Americans from the African genesis to 1865, including<br>historical processes and their impact on modern U.S. society. A critical<br>analysis will be made of the contributions of African Americans to the<br>historical development of the United States, and the transformations<br>that have accurred as a regult Satisface the requirement for a course in                       | <ul> <li>HIST 39 — California History</li> <li>3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Prerequisite: Eligibility for ENGL 68</li> <li>The social, intellectual, economic, and political development of California<br/>and the Pacific Coast from earliest times to the present.</li> <li>HIST 40 — History of the Mexican American</li> <li>Burtiss</li> <li>Burtiss</li> <li>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> </ul>                                                                                                                                                                                                                 | <ul> <li>HT 2 — Scientific Basics for Histologic Technicians 3 Units<br/>Degree Applicable</li> <li>54 hours lecture<br/>Advisory: Eligibility for ENGL 68</li> <li>Defines all aspects of general laboratory issues including general<br/>laboratory protocols (GLP's), safety, ethics, and terminology relative to<br/>the preparation of tissue samples.</li> <li>HT 10 — Histology 3 Units<br/>Degree Applicable</li> </ul>                                                                                                                |
| that have occurred as a result. Satisfies the requirement for a course in<br>American institutions and ideals and the Constitution of the United<br>States as required by Title 5 of the California Administrative Code.<br>HIST 31 — History of the African American 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>In the general framework of the U.S. historical process, surveys the                                                                                                                                                                                                                                 | Prerequisite: Eligibility for ENGL 68<br>A survey of United States history from colonial times to the present<br>with a special emphasis on the role of La Raza (Hispanics) in the<br>development of the nation. Satisfies the requirement for a course in<br>American History, including the study of American institutions and<br>ideals as required by Title 5 of the California Administrative Code.                                                                                                                                                                                                                                                                                        | 36 hours lecture<br>54 hours lab<br>Advisory: ANAT 35<br>Microscopy, image analysis; cell structure, reproduction and staining.<br>Identification of tissues, organs and special microstructures, and their<br>detailed morphology. Involves distinguishing normal features from<br>pathological conditions.                                                                                                                                                                                                                                   |
| history of African Americans from the Reconstruction period to the<br>present, including historical processes and their impact on modern U.S.<br>society. A critical analysis will be made of the contributions of African<br>Americans to the historical development of the United States, and the<br>transformations that have occurred as a result. Satisfies the requirement<br>for a course in American institutions and ideals and the Constitution of<br>the United States as required by Title 5 of the California Administrative<br>Code.                                                                                      | ■ HIST 44 — History of Native Americans 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Advisory: Eligibility for ENGL 1A<br>Survey of the history of the United States from Colonial times to the<br>present with a special emphasis on the role of Native Americans.<br>Examines the role Euro-American social, political, and economic<br>movements play in the Native American experience and the mutual<br>relationships generated through these factors. Critically analyzes how                                                                                                                                                                                             | HT 12 — Beginning Histotechniques       5 Units         Degree Applicable         54 hours lecture         108 hours lab         Prerequisite: HT 1 and HT 2         Advisory: MICR 22         Theory and practical applications and skill-building in tissue fixation, processing, embedding, sectioning, microtomy, hematoxylin-eosin                                                                                                                                                                                                        |
| <ul> <li>HIST 35 — History of Africa 3 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture</li> <li>Surveys African civilization with major emphasis placed upon political,<br/>social and cultural developments. African history will be traced from<br/>prehistoric times through colonialism and the emergence of<br/>independent African states in the 21st Century. The American<br/>relationship with Africa will be considered.</li> <li>HIST 36 — Women in American History 3 Units<br/>Degree Applicable, CSU, UC</li> </ul>                          | the Native American narrative is woven into the fabric of U.S. history<br>and is an essential component of the complete American story.<br><b>HIST 99 — Special Projects in History 2 Units</b><br>Degree Applicable, CSU<br>36 hours lecture<br>To offer selected students recognition for their academic interests and<br>ability and the opportunity to explore their disciplines to a greater<br>depth, the various departments from time to time offer Special Projects<br>courses. The content of each course and the methods of study vary from<br>semester to semester and depend on the particular project under<br>consideration. Students repeating this course will make individual | <ul> <li>staining (H and E), and microorganism staining. Quality control as it relates to routine histological techniques and equipment.</li> <li>HT 14 — Advanced Histotechniques 5 Units Degree Applicable 54 hours lecture 108 hours lab <i>Prerequisite: HT 12</i></li> <li>Practical applications of special stains for carbohydrates, amyloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to frozen sections, cytology preparation, and microwave technology. Field trip required.</li> </ul> |
| 54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Women's experience placed within the context of major themes of<br>United States history, addressing issues and debates related to gender<br>construction and identity from Colonial times to the present. Political,<br>economic, and social currents within in the context of race, ethnicity,<br>sexual orientation, and class are examined and analyzed. This course<br>satisfies the requirement for a course in American history including the<br>study of American institutions and ideals, as required by Title 5 of the<br>California Administrative Code. | HISTOTECHNOLOGY       54 hours lecture         HT 1 — Introduction to Histotechnology       1 Unit         Degree Applicable       54 hours lecture         18 hours lecture       54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HT       16 — Histochemistry/Immunohistochemistry       4 Units         Degree Applicable       54 hours lecture         54 hours lab       Prerequisite: HT 12         Fundamentals of enzyme and immunological reactions as they relate to                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section 10 165                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| <ul> <li>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</li> <li>Prerequisite: HT 12 and compliance with Work Experience regulations as designated in the College Catalog</li> <li>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.</li> <li>HCSPTALITY AND RESTAURANT MANAGEMENT</li> <li>HRM 51 — Introduction to Hospitality 3 Units Degree Applicable, CSU 54 hours lecture</li> <li>Prerequisite: Eligibility for ENGL 68</li> <li>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.</li> <li>HRM 52 — Food Safety and Sanitation 2.5 Units Degree Applicable, CSU 27 hours lecture</li> <li>Prerequisite: Eligibility for ENGL 68</li> <li>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.</li> <li>HRM 53 — Dining Room Service Management 3 Units Degree Applicable, CSU 54 hours lecture</li> </ul> | <ul> <li>HRM 54 — Basic Cooking Techniques</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Advisory: HRM 52</li> <li>Basic principles of preparing foods for commercial operations; the use<br/>and identification of commercial tools and equipment; extending<br/>recipes; and choosing the proper food grade; evaluation of food<br/>products, and equipment usage.</li> <li>HRM 56 — Management of Hospitality Personnel</li> <li>3 Units<br/>and Operations</li> <li>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>Management skills course for students pursuing a career in supervision<br/>within the restaurant/hospitality industry. Application of basic<br/>management concepts and techniques necessary to achieve objectives<br/>in the manager's responsibilities in training, coaching, and performance<br/>appraisal of employees; decision making, leadership, and planning.</li> <li>HRM 57 — Restaurant Cost Control</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li><i>Corequisite: HRM 51 (May have been taken previously)</i></li> <li>Methods for controlling resources within the hospitality operation to<br/>maximize profits without compromising products. Discusses controls in<br/>front of the house, back of the house, purchasing and receiving.</li> <li>HRM 60 — Hospitality Purchasing</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>Basic principles of purchasing for the hospitality industry. Ordering,<br/>receiving, storage, characteristics of products and grade selection for<br/>different situations are emphasized. Choosing the best supplier,<br/>negotiating the best terms and writing product specifications are<br/>covered.</li> <li>HRM 61 — Menu Planning</li> <li>Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> </ul> | Degree Applicable, CSU<br>54 hours lecture<br>Comprehensive exploration of the catering business with in-depth study<br>of organizing and catering both on-premise and off-premise events.<br>Marketing and working with clients to combine menu with price.<br>Contracting outside vendors, problem solving and avoiding common<br>problems before they occur.<br><b>II HRM 64 — Hospitality Financial Accounting I 3 Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: BUSA 11 or MATH 51</i><br>Introduction to financial accounting specifically for the hospitality<br>business. Emphasis is on tailoring the Uniform System of Accounting to<br>hotels, restaurants, clubs and other food service operations.<br><b>II HRM 66 — Hospitality Law 3 Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br><i>Advisory: HRM 51</i><br>Basic principles of contracts, liability and labor as they apply specifically<br>to the hospitality industry. Students will discuss previous cases and<br>decide the fates of fictional litigations as a preventive approach to<br>problems that can occur.<br><b>II HRM 70 — Introduction to Lodging 3 Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br><i>Advisory: HRM 91</i><br>Introduction to basics of the lodging industry. Acquaints students with<br>front office operations, accounting, guest service, housekeeping and<br>food service. Includes human resource management and property<br>management. Enrollment in Work Experience in Restaurant/Food Service<br>(RSTR 91, 92, 93 or 94) is needed for articulation to California<br>Polytechnic State University.<br><b>II HRM 81 — Garde Manger</b><br><b>3 Units</b><br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Corequisite: HRM 52 (May have been taken previously)</i> |
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| Advisory: ENGL 68<br>Skills and knowledge needed for all aspects of dining room service.<br>Exploration of the five different service styles and their relationship to<br>various environments. Table setting styles, buffet set-ups, wine and<br>beverage service, and service as a sales tool are covered. Safety of both<br>customer and staff are discussed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Advisory: HRM 51<br>Menu development for all facets of the food service industry including<br>retail and contract operations; emphasis on the economics of the menu<br>and the demographics of the area. Analysis of menus with regard to<br>limitations of the facility and staff, pricing and menu design relative to<br>the economy and culture of the target area. Specialty menus such as<br>ethnic, fast food, catering and various contract situations are included.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Corequisite: HRM 52 (May have been taken previously)         Preparation and presentation of cold kitchen foods including: sauces, soups, salads, sandwiches, appetizers, hors d'oeuvres, and buffets.         Image: HRM 82 - Baking and Pastry       3 Units         Degree Applicable       36 hours lecture         54 hours lab       Corequisite: HRM 52 (May have been taken previously)         Preparation of baked goods and pastries including: breads, cakes, icing, laminated pastries, cookies, pies, tarts, and plated desserts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| <ul> <li>HRM 83 — International Cuisines 3 Units Degree Applicable</li> <li>36 hours lecture</li> <li>34 hours lab</li> <li>Gorequisite: HRM 52 (May have been taken previously)</li> <li>Preparation of international cuisines from Asia, Europe, the</li> <li>Mediterranean, and Latin America. Emphasis will be placed on regional dishes from: China, Japan, India, Thailand, Spain, Italy, France, Greece, Lebanon, and Mexico.</li> <li>HRM 91 — Hospitality Work Experience 1 to 4 Units Degree Applicable, CSU (May be taken four times for credit)</li> <li>(May be taken for Pass/No Pass only)</li> <li>75 to 300 hours lab</li> <li>Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog</li> <li>Provides students with 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.</li> <li>HUMA 1 — The Humanities 3 Units Degree Applicable, CSU, UC 54 hours lecture</li> <li>Prerequisite: Eligibility for ENGL 68</li> <li>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.</li> <li>Emphasizes creating an awareness of human expression as it occurs in a historical and philosophical context.</li> <li>INSP 17 — Legal Aspects of Construction 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass)</li> <li>54 hours lecture</li> <li>INSP 67 — Reading Construction Drawings</li> <li>Unity Degree Applicable</li> </ul> | Degree Applicable, CSU<br>54 hours lecture<br>Fundamentals of construction processes, terminology and procedures.<br>Provides an overview of the construction industry and related fields.<br>INSP 71 — Construction Estimating 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Basics of bidding procedures and interrelationship of documents and<br>estimating. Detailed calculation of cost based on the amount of required<br>building materials using actual working drawings, estimating forms, and<br>cost data courses.<br>INSP 87 — Fundamentals of Construction Inspection 3 Units<br>Degree Applicable<br>54 hours lecture<br>Advisory: Completion of a curriculum in building construction or<br>equivalent experience<br>Construction inspection of light frame wood construction and steel<br>structures. Topics include vertical and horizontal loads, stress analysis, framing<br>and structural standards of lumber and steel, metallurgy and welding.<br>INTERIOR DESIGN<br>I ID 10 — Introduction to Interior Design 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Formerly ID 100.<br>Practice of interior design and the planning of total interior<br>environments that meet individual, functional and environmental<br>needs. Field trips may be required.<br>I ID 12 — Materials and Products for Interior Design 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Formerly ID 100.<br>Practice of interior design and the planning of total interior<br>environments that meet individual, functional and environmental<br>needs. Field trips may be required.<br>I ID 12 — Materials and Products for Interior Design 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Advisory: ID 10<br>Formerly ID 150.<br>Analysis, application, and evaluation of products and materials used in<br>interior design. Field trips required.<br>I ID 14 — History of Furniture and Decorative Arts 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Formerly ID 180 and ID 190.<br>Historic development of structure, interior achitecture is illustrated<br>in this overview of design heritage from antiquity to pr | <ul> <li>ID 20 — Color and Design Theory I Degree Applicable, CSU Degree Applicable, CSU Degree Applicable, CSU St hours lab Formerly ID 130. Elements and principles of design and the creative process of identifying and solving interior design problems. Formal visual properties of line, shape, form, pattern, texture, and color are studied in their relationship to the organizational systems and unifying principles that create balanced designs. Portfolio pieces will be produced. Field trips may be required.</li> <li>ID 21 — Color and Design Theory II 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Advisory: ID 20 Elements and principles of design and the creative process of identifying and solving interior design problems. Formal visual properties of line, shape, form, pattern, texture, and color are studied in their relationship to the organizational systems and unifying principles that create balanced designs. Portfolio pieces will be produced. Field trips may be required.</li> <li>ID 22 — Design Drawing for Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Communication elements required to convey design ideas to building trades via the written language of design and construction documents. Graphic and drawing techniques, including interior design graphics standards, building construction documentation sets. Field trips may be required.</li> <li>ID 23 — Computer Aided Drawing for Interior Design 1 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Advisory: ID 22 or ARCH 11 Computer Aided Drawing (CAD) as a communication element required to convey design ideas to building construction documentation sets. Portfolio pieces will be produced. Field trips may be required.</li> </ul> |
| ■ INSP 67 — Reading Construction Drawings 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Historic development of structure, interior spaces, furniture and decorative arts throughout the world. Interior architecture is illustrated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| ■ ID 25 — Codes and Specifications for Interior Design 3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: ID 22 or ARCH 11</i><br>Formerly ID 250.<br>Federal and state codes and specifications concerning life-safety issues,<br>barrier free access and universal design requirements relative to<br>residential and contract interior design. Attention is given to<br>performance, health safety, and universal design for specifying interior<br>materials and products. Portfolio pieces will be produced. Field trips may<br>be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul> <li>ID 31 — Building Systems for Interior Design 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab<br/>Prerequisite: ID 22 or ARCH 11<br/>Residential and commercial construction systems and materials.<br/>Includes typical building systems used in construction that affect<br/>interior design and elements that make up the foundation, floors, walls,<br/>and roof. Field trips may be required.</li> <li>ID 32 — Lighting Design and Theory for<br/>Interior Design</li> <li>Degree Applicable, CSU</li> </ul>                                                                                                                                                                                                                    | ■ ID 38 — Internship in Interior Design 1 to 3 Units<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>75 to 225 hours lab<br><i>Prerequisite: Compliance with Work Experience/Internship regulations as</i><br><i>designated in the College Catalog.</i><br>Formerly ID 240A and 240B.<br>Designed to provide the student with actual on-the-job experience in<br>the interior design profession, which relates to classroom based<br>learning. Placement is not guaranteed but assistance is provided by the<br>interior design faculty. A minimum 75 paid clock hours or 60 non-paid<br>clock hours per semester is required. Students who repeat this course                                                                                                                                                           |
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| <ul> <li>ID 26 — Space Planning for Interior Design 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: ID 22 or ARCH 11</li> <li>Advisory:ID 25</li> <li>Formerly ID 170.</li> <li>Space planning with an emphasis on programming, behavioral aspects<br/>of space, use of furniture standards and applicable codes. Planning skills<br/>are gained through the application of basic principles to actual spaces.<br/>Portfolio pieces will be produced. Field trips may be required.</li> <li>ID 27 — Rapid Visualization 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                              | 36 hours lecture<br>54 hours lab<br>Prerequisite: ID 22 or ARCH 11<br>Formerly ID 210.<br>Principles and theory of interior lighting design, lighting technology,<br>terminology, development of lighting design concepts and selection and<br>placement of luminaries to achieve the desired result. Portfolio pieces<br>will be produced. Field trips may be required.<br><b>ID 34 — Computer Aided Drawing for Interior 3 Units</b><br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br>Prerequisite: ID 23<br>Three-dimensional computer modeling, rendering, lighting, and fly-                                                                                                                                                                               | will improve skills through further instruction and practice.  I D 39 — Interior Design Studio II 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Prerequisite: ID 22 or ARCH 11 Advisory: ID 31 and ID 32 Formerly ID 215. Analysis and application of design concepts to interior environments. Focuses on the creative process of identifying and solving design problems incorporating universal and sustainable design. Includes research and analysis of client requirements for complex programs and their solutions in order to satisfy end-user needs, functional space requirements, public image, existing architectural elements, and site                                                                                                                                                                                                              |
| <ul> <li>Prerequisite: ID 22 or ARCH 11</li> <li>Formerly ID 260.</li> <li>Methods, techniques, and tools used in illustrating interior spaces with an emphasis on rapid production. Includes techniques of drawing and rendering volume, tone, texture, perspective, and composition using sketching, rapid visualization, and formal composition of one-and two-point perspectives. Portfolio pieces will be produced. Field trips may be required.</li> <li>ID 29 — Interior Design Studio 1 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab <i>Prerequisite: ID 26</i></li> <li>Formerly ID 105.</li> <li>Analysis and application of design concepts to interior environments. Focuses on the creative process of identifying, evaluating and solving design problems while incorporating universal and sustainable design in a studio environment. Includes research and analysis of end-user needs, space requirements, existing architectural elements, and site conditions. Portfolio pieces will be produced. Field trips may be required.</li> </ul> | <ul> <li>throughs as used in interior design. Portfolio pieces will be produced.<br/>Field trips may be required.</li> <li>ID 36 — Professional Practices for Interior Design 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab<br/>Advisory: ID 29</li> <li>Development of individual professional identities through self-branding<br/>as a marketing strategy. Emphasis is on personal, educational, and<br/>professional qualifications required for entry into interior design and<br/>related professions. Surveys the interior design profession, industry, and<br/>related occupations. Portfolio pieces will be produced. Field trips may be<br/>required.</li> <li>ID 37 — Business Practices for Interior Design 3 Units</li> </ul> | conditions. Portfolio pieces will be produced. Field trips may be required.<br><b>I ID 40 — Kitchen and Bath Studio I 3 Units</b><br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: ID 29</i><br><i>Corequisite: ID 31 (May have been taken previously.)</i><br><i>Advisory: ID 32</i><br>Kitchen and bath design that focuses on ergonomic principles, and<br>specific materials including floor and wall surfaces, window treatments,<br>cabinet selection, appliance and fixture selection, counter top selection,<br>and lighting. Projects will consist of dimensioned floor plans, elevations,<br>isometric drawings, perspective drawings, and section drawings<br>completed in accordance with National Kitchen and Bath Association<br>(NKBA) standards and nomenclature. Portfolio pieces will be produced.<br>Field trips may be required. |

| ■ ID 41 — Kitchen and Bath Studio II 3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: ID 40</i><br><i>Advisory: ID 32</i><br>Kitchen and bath design that focuses on universal design, design<br>concepts, and historical design for kitchen and bath projects. Emphasis<br>is placed on ergonomics and American Disability Act (ADA)<br>considerations. Projects will utilize graphic standards as recommended<br>by NKBA. Field trips may be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ITALIAN         ITAL 1 — Elementary Italian       4 Units<br>Degree Applicable, CSU, UC         72 hours lecture       Intended for students without previous exposure to Italian. Includes the<br>study of essentials of pronunciation, vocabulary, idioms, and<br>grammatical structures along with an introduction to Italian culture.<br>Begins to develop the ability to converse, read, and write in Italian.         ITAL 2 — Continuing Elementary Italian       4 Units<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                        | <ul> <li>ITAL 6 — Continuing Advanced Italian 4 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lecture<br/><i>Prerequisite: ITAL 5 or equivalent</i><br/>Extensive advanced reading, writing, and speaking in Italian that further<br/>develop cultural insight through the study of various Italian literary<br/>types.</li> <li>ITAL 52 — Conversational Italian 3 Units<br/>Degree Applicable</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <ul> <li>ID 48 — Internship in Kitchen and Bath</li> <li>1 to 3 Units<br/>Degree Applicable</li> <li>(May be taken four times for credit)</li> <li>(May be taken for Pass/No Pass only)</li> <li>75 to 225 hours lab</li> <li>Prerequisite: Compliance with Work Experience/Internship regulations as<br/>designated in the College Catalog.</li> <li>Corequisite: ID 40 (May have been taken previously.)</li> <li>Formerly ID 240C.</li> <li>Designed to provide the student with actual on-the-job experience in<br/>the interior design profession at a National Kitchen and Bath (NKBA)<br/>member work site, which relates to student?s classroom based learning.</li> <li>Placement is not guaranteed but assistance is provided by the interior<br/>design faculty. A minimum 75 paid clock hours or 60 non-paid clock</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 72 hours lecture<br>Prerequisite: ITAL 1 or equivalent<br>Further development of conversational, reading and writing skills in<br>Italian with special emphasis on verbs, grammar and extension of<br>vocabulary. Further study of Italian culture.<br><b>ITAL 3 — Intermediate Italian</b><br><b>4 Units</b><br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: ITAL 2 or equivalent<br>Development of intermediate Italian language skills and their use as<br>tools in exploring Italian civilization. Further study and review of<br>grammar, exercises in word building, derivation and the extension of the<br>active and recognition vocabularies. Extensive exposure to Italian<br>culture, such as film, music and history.                                                                  | <ul> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>54 hours lecture</li> <li>Prerequisite: ITAL 1 or equivalent</li> <li>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.</li> <li>ITAL 53 — Continuing Conversational Italian 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)</li> <li>54 hours lecture</li> <li>Prerequisite: ITAL 2 or ITAL 52 or equivalent</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                      |
| hours per semester is required. Students who repeat this course will<br>improve skills through further instruction and practice.<br><b>I ID 50 — Interior Design Specialized Studio 3 Units</b><br>Degree Applicable<br>(May be taken four times for credit)<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: ID 26</i><br>Exploratory design experience to enhance interior design curriculum.<br>The content of each course and the methods of study vary each<br>semester and depends on the particular project under consideration<br>Students will explore advanced interior design concepts and<br>presentation techniques. Students who repeat this course will improve<br>skills through further instruction and practice. Portfolio pieces will be<br>produced. Field trips may be required.<br><b>I ID 52 — Independent Studies in Interior Design 1 to 3 Units</b><br>Degree Applicable<br>(May be taken four times for credit)<br>54 to 162 hours lab<br>Extended laboratory experiences supplementary to those available in<br>the regular program and allows the student to pursue more advanced<br>and complex laboratory projects and experiments. Students who repeat<br>this course will increase skill proficiencies in Interior Design. Portfolio<br>pieces will be produced. | <ul> <li>ITAL 4 — Continuing Intermediate Italian 4 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lecture<br/>Prerequisite: ITAL 3 or equivalent<br/>Further practice in speaking and writing of intermediate Italian.<br/>Collateral reading in Italian. Extensive exposure to cultural elements<br/>from Italy such as art, music, film and history.</li> <li>ITAL 5 — Advanced Italian 4 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lecture<br/>Prerequisite: ITAL 4 or equivalent<br/>Emphasis is placed on increased facility to read and write advanced<br/>Italian. Cultural insights are developed through the study of various<br/>Italian literary types.</li> </ul> | <ul> <li>ITAL 54 — Advanced Conversational Italian 3 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: ITAL 3 or ITAL 53 or equivalent<br/>Development of advanced Italian conversational skills. Emphasis on<br/>collaborative activities and practical use of the language. Extensive<br/>exposure to Italian culture. Grammar is presented in context. Students<br/>who repeat this course will improve their skills through further<br/>instruction and practice.</li> <li>ITAL 60 — Italian Culture Through Cinema 3 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Italian culture through cinema from 1900 through analysis of the<br/>aesthetic, literary, artistic and philosophical movements in Italy as<br/>reflected in the works of the Italian film makers and writers. Lecture<br/>and class discussion to be conducted in English; film presentation with<br/>English subtitles.</li> </ul> |

| JAPANESE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | JAPN 53 — Conversational Japanese 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | JOUR 104 — Newspaper and Magazine Production 2 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| ■ JAPN 1 — Elementary Japanese 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Intended for students without previous exposure to Japanese. Begins to<br>develop the ability to converse, read, and write in Japanese. Includes the<br>study of essentials of pronunciation, vocabulary, idioms, and<br>grammatical structures. Introduction to Japanese culture.                                                                                                                                  | Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: JAPN 2 or equivalent</i><br>Development of intermediate Japanese conversational skills. Emphasis<br>on collaborative activities and practical use of the language. Extensive<br>exposure to Japanese culture. Grammar is presented in context.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | and Photography Lab<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>108 hours lab<br>Provides experience in the production of a college newspaper and<br>magazine. Provides learning through electronic assembly of the<br>newspaper and magazine using computers, layout and design software,                                                                                                                                                                                                 |
| ■ JAPN 2 — Continuing Elementary Japanese 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                             | JOURNALISM JOUR 100 — Mass Media and Society Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | image editing software, illustration software, digital cameras, and<br>scanners. Students who repeat this course will improve skills through<br>further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                |
| Prerequisite: JAPN 1 or equivalent<br>Further development of conversational, reading and writing skills in<br>Japanese with special emphasis on verbs, grammar, and extension of<br>vocabulary. Includes a discussion of Japanese culture.                                                                                                                                                                                                                                                                      | (May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: ENGL 1A</i><br>Survey of the mass media and the interrelationships of media with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ■ JOUR 105 — Editor Training 1 Unit<br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ■ JAPN 3 — Intermediate Japanese 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: JAPN 2 or equivalent<br>Continued development of Kanji (50 or more characters) with 60                                                                                                                                                                                                                                                                                                              | society, including history, structure, and trends. Additionally, the<br>following topics will be covered as they pertain to the mass media:<br>economics, technology, law and ethics and such social issues as gender<br>and cultural diversity.<br>JOUR 101 — Beginning News Writing 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 54 hours lab<br>Advisory: JOUR 101<br>Stresses leadership skills in a journalistic setting using the student<br>newspaper as a practical laboratory. Designed for students selected to<br>serve as editors or managers of the paper. Students who repeat this                                                                                                                                                                                                                                                                                                                    |
| additional readings. Continued development of writing ability<br>emphasizing development of thought through Kanji, Hiragana and<br>Katakana. Additional development of cultural application of Japanese.                                                                                                                                                                                                                                                                                                        | Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | course will improve skills through further instruction and practice.  JOUR 106 — Online New Media Laboratory Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ■ JAPN 4 — Continuing Intermediate Japanese 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br><i>Prerequisite: JAPN 3 or equivalent</i><br>Further practice in listening comprehension, communicative proficiency,<br>writing and reading in Japanese. Advanced study and review of<br>grammar and vocabulary. Readings and discussions of Japanese cultural<br>topics and introduction to Japanese literature.                                                                                      | Prerequisite: ENGL 1A         Evaluating, gathering, and writing news in accepted journalistic style         under newsroom conditions. Includes role of the reporter and the legal         and ethical issues relating to reporting. The student will have writing and         reporting experiences, including personal interviews, speech, meeting         and other event coverage, deadline writing, and use of AP style. <b>JOUR 102</b> — Intermediate Newswriting       3 Units         Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>108 hours lab<br>Provides experience in a variety of online publishing activities to<br>produce and enhance the online edition of a college newspaper.<br>Provides learning thorugh use of computers and online publishing<br>software, podcasting software, web design software, live and videotape<br>broadcasting software, digital cameras, video cameras, and wireless                                                                                                 |
| ■ JAPN 5 — Advanced Japanese 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: JAPN 4 or equivalent<br>Advisory: Eligibility for ENGL 68<br>Advanced Japanese communication skills with emphasis on<br>conversational skills for daily and social settings in Japanese culture.<br>Advanced study of grammar, vocabulary, Kanji characters, listening,<br>speaking, reading, and writing. Extensive exposure to cultural elements<br>from Japan such as art, music, film, and history. | <ul> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: JOUR 101<br/>Develop expertise in news beat coverage and other specialized writing,<br/>including computer-assisted reporting. Print journalism emphasized<br/>with introduction to Web reporting. Assignments may include writing<br/>for the campus newspaper.</li> <li>JOUR 103 — Writing for the Newspaper and Magazine 2 Units<br/>Degree Applicable<br/>(May be taken four times for credit)<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>108 hours lab<br/>Prerequisite: JOUR 101<br/>Practical experience writing for the college student newspaper or<br/>magazine. Activities may include reporting, story writing, copyediting.<br/>Students who repeat this class will improve skills through further<br/>instruction and practice.</li> </ul> | computer technology. Students who repeat this course will improve<br>skills through further instruction and practice.<br><b>JOUR 107</b> — Race, Culture, Sex, and Mass Media Images 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Advisory: ENGL 1A<br>Studies the role mass media plays in the social, political, and economic<br>integration of minorities, cultures, women, and gays and lesbians into<br>American society. Examines ways that mass media impacts public<br>attitudes and behaviors. |

| JOUR 108 — Writing for Public Relations 3 Units                                                                                                                                                                                                                                                                                                                                                                                              | JOUR 112 — Work Experience in Journalism 3 to 4 Units                                                                                                                                                                                                                                                                                                                                                                                                                         | LEARNING ASSISTANCE SERVICES                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br><i>Prerequisite: JOUR 101 or JOUR 1A</i><br>An introduction to public relations writing including news releases, fact<br>sheets, feature stories, institutional publications, and newsletters. The<br>relationships between public relations, the mass media, and society will<br>be explored.                                    | Not Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for Pass/No Pass only)<br>225 to 300 hours lab<br><i>Prerequisite: Compliance with Work Experience regulations as designated</i><br><i>in the College Catalog. JOUR 101 or JOUR 1A and ENGL 1A</i><br>This course is designed to provide majors with actual on-the-job<br>experience in an approved work station which is related to classroom                                                 | LERN 48 — Basic Math Skills Review 3 Units<br>Not Degree Applicable<br>(May be taken for Pass/No Pass only)<br>54 hours lecture<br>Math fundamentals: adding, subtracting, multiplying and dividing whole<br>numbers and fractions. Emphasis on math learning strategies such as<br>organization and managing math anxiety.                                                                                                                            |
| ■ JOUR 109 — Public Relations Internship 3 Units<br>Degree Applicable<br>(May be taken two times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>225 hours lab<br>Advisory: JOUR 108 or JOUR 8<br>Field work in pubic relations. A minimum of 75 paid or 60 non-paid<br>clock hours per semester of supervised work is required for each unit of<br>credit. It is recommended that the hours per week be equally | instruction. A minimum of 75 paid or 60 non-paid clock hours per<br>semester of supervised work is required for each unit of credit. It is<br>recommended that the hours per week be equally distributed<br>throughout the semester. Students who repeat this course will improve<br>skills through further instruction and practice.<br>LATIN<br>LATN 1 — Elementary Latin 4 Units<br>Degree Applicable, CSU, UC                                                             | ■ LERN 49 — Math Skills Review 3 Units<br>Not Degree Applicable<br>(May be taken for Pass/No Pass only)<br>54 hours lecture<br><i>Prerequisite: LERN 48 or passing score on current placement test</i><br>Improves knowledge of basic math. Includes operations and applied<br>problems in whole numbers, fractions, decimals, proportions,<br>percentages, and integers. Covers math study strategies such as learning<br>styles and self-assessment. |
| distributed throughout the semester. Students who repeat this course<br>will improve skills through further instruction and practice.<br><b>JOUR 110 — Magazine Writing and Production</b><br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: JOUR 101 or JOUR 1A</i>                                                                                                      | (May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br><i>Advisory: Eligibility for READ 90 or eligibility for AMLA 33R</i><br>This course is designed for students with little or no prior experience in<br>Latin. Emphasizes the ability to read basic Latin as it was written during<br>the early, classical, and post-classical periods. Includes the study of<br>vocabulary, grammar, Roman culture, and the history of the Latin<br>language. | ■ LERN 61 — Skills Development Laboratory 1 Unit<br>Not Degree Applicable<br>(May be taken for Pass/No Pass only)<br>54 hours lab<br>Offers individualized material in the following subjects: reading<br>comprehension, reading acceleration, vocabulary, spelling, elementary<br>math, algebra review, English grammar, study techniques (note-taking,<br>test-preparation, test-taking).                                                            |
| Production of a student-run magazine in a professional setting.<br>Activities may include fiction and nonfiction writing, editing, ethics,<br>interviewing, photography, art and layout. Overview of the magazine<br>industry and markets explored.<br>JOUR 111 — Broadcast News Writing 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture                                  | ■ LATN 2 — Continuing Elementary Latin 4 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br><i>Prerequisite: LATN 1</i><br><i>Advisory: Eligibility for READ 90 or eligibility for AMLA 33R</i><br>Second semester of coursework for students with prior coursework in<br>Latin. Daily practice in vocabulary, grammar, and reading. Explores                                                            | LERN 62 — Skills Development Laboratory 2 Units<br>Not Degree Applicable<br>(May be taken for Pass/No Pass only)<br>108 hours lab<br>Offers individualized material in the following subjects: reading<br>comprehension, reading acceleration, vocabulary, spelling, elementary<br>math, algebra review, English grammar, study techniques (note-taking,<br>test-preparation, test-taking).                                                            |
| Prerequisite: JOUR 1A or JOUR 101<br>Intensive news gathering and writing for radio and television. Newscast<br>planning, story organization, and functions of a broadcast newsroom are<br>explored. Emphasis on assignments for both audio and video tape<br>media. Lecture and discussion of issues and responsibilities confronting<br>broadcast journalists including ethics and changing technology.                                    | Roman history and culture.<br>LEADERSHIP  LEAD 55 — Exploring Leadership  Segree 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.                                 | LERN 81 — Improving Writing 3 Units<br>Not Degree Applicable<br>(May be taken for Pass/No Pass only)<br>54 hours lecture<br>Assist students who wish to improve prewriting, writing, editing, and<br>revising skills. Provide instruction in content and structure of sentences,<br>paragraphs, and essays; emphasize development in writing through the<br>integration of grammar and critical thinking.                                              |

| LEARNING COMMUNITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MANUFACTURING TECHNOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MFG 19 — Parametric Solid Modeling for Manufacturing 2 Units                                                                                                                                                                                                                                                                                                                                                                                                               |
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| LCOM 80 — Learning Communities: Individual Connections 1 Unit<br>Not Degree Applicable 18 hours lecture Explores connections between self, courses, and learning community themes. Develops social networking skills, cognitive strategies, academic behaviors and confidence, and team building as related to success within a learning community. Off-campus participation in a service learning project may be required. Concurrent enrollment in a learning community is required.                                                                                                                    | <ul> <li>MFG 10 — Mathematics and Blueprint Reading 3 Units for Manufacturing</li> <li>Degree Applicable</li> <li>54 hours lecture</li> <li>Applications of mathematical principles, including fractions, decimals, ratio/proportion, geometry and trigonometry to manufacturing problems and their solutions. Reading and interpreting part drawings, assembly drawings and sketches used in the manufacturing industry.</li> <li>MFG 11 — Manufacturing Processes I 2 Units</li> </ul> | Degree Applicabl<br>18 hours lecture<br>54 hours lab<br><i>Advisory: MFG 17</i><br>Development of feature-based solid models on a computer using<br>current industry software; creation of simple assemblies and two-<br>dimensional drawings of modeled part and assemblies. Transfer of<br>three-dimensional solid model to a computer-assisted manufacturing<br>(CAM) system to create computer numeric control (CNC) machined part                                     |
| ■ LCOM 90 — Learning Communities: Campus Connections 1 Unit<br>Degree Applicable<br>18 hours lecture<br>Analyzes connections between the individual and the campus. Focuses<br>on the benefits of campus involvement in order to create student<br>identity. Identifies connections between themes and topics of courses<br>within a learning community. Explores problem-based learning.<br>Concurrent enrollment in a learning community is required. Field trips<br>may be required.                                                                                                                   | Degree Applicable, CSU 18 hours lecture 54 hours lab Manual and computerized manufacturing, tool nomenclature, and lathe and mills operations, computer numerical control (CNC) machinery, applications, and tooling.  MFG 12 — Manufacturing Processes II Degree Applicable, CSU 18 hours lecture                                                                                                                                                                                       | ■ MFG 25 — Advanced Parametric Solid Modeling 2 Unit:<br>for Manufacturing Degree Applicable<br>18 hours lecture<br>54 hours lab<br>Advisory: MFG 19 or MFG 27 taken previously<br>Advanced instruction in concepts, practice, and development of feature-<br>based solid modeling using software currently used in the<br>manufacturing industry. Advanced features of solid modeling global<br>variables, 3-D helical paths generation, surface cut, table-driven parts, |
| ■ LCOM 100 — Learning Communities: 1 Unit<br>Interdisciplinary Connections Degree Applicable<br>18 hours lecture<br>Interprets the connections between real world problems, course content,<br>and learning community themes. Synthesizes interdisciplinary<br>connections utilizing problem-based learning within a learning<br>community. Evaluates successful team selection based on specific<br>criteria including leadership skills and interpersonal relationships to<br>establish collective efficacy. Concurrent enrollment in a learning<br>community is required. Field trips may be required. | 54 hours lab<br>Advisory: MFG 11<br>Machine tool manufacturing process theory and practice in milling<br>operations, tooling set up, indexing, metallurgy, heat treatment,<br>precision grinding, and basic tool design with study and application of<br>manufacturing process to computerized equipment.<br><b>MFG 15 — AutoCAD 2D 2 Units</b><br>Degree Applicable<br>18 hours lecture<br>54 hours lab                                                                                 | and advanced sheet metal, and animation.  MFG 27 — Autodesk Inventor 2 Units: Degree Applicable B hours lecture 54 hours lab Advisory: MFG 19 Advanced concepts, practice, and development of feature-based solid modeling using AutoDesk Inventor. Solid modeling parts creation using sketched, placed, and work features. Assembly techniques, working drawings, and the transfer of a solid model to a CAM system.                                                     |
| LIBRARY AND INSTRUCTIONAL MEDIA     LIBRARY AND INSTRUCTIONAL MEDIA     LIBR 1 — Information Resources and Research Methods 3 Units         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.                                                                                          | Creation of two-dimensional mechanical drawings and part geometry that can be transferred to various computer-aided manufacturing 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                                                                                          | <ul> <li>MFG 38 — MasterCAM I</li> <li>2 Unit:<br/>Degree Applicable, CSU</li> <li>18 hours lecture</li> <li>54 hours lab</li> <li>Use MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes.</li> <li>MFG 38B — MasterCAM II</li> <li>2 Unit:<br/>Degree Applicable, CSU</li> <li>18 hours lecture</li> <li>54 hours lecture</li> <li>54 hours lab</li> </ul>                                            |
| ■ LIBR 1A — Introduction to Library Research 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>Advisory: Eligibility for ENGL 68<br>Basic research skills for lifelong information competency necessary for<br>independent research and critical thinking. Topics include search<br>strategies, citation, and use of library resources.                                                                                                                                                                                            | primitives as related to their interaction with computer-aided<br>manufacturing (CAM) systems. Creation of three-dimensional part<br>geometry, surfaces, and solids. File transfer to various CAM systems.                                                                                                                                                                                                                                                                               | <i>Advisory: MFG 38</i><br>Use MasterCAM software to create three-dimensional wire-frame and solid part geometry.                                                                                                                                                                                                                                                                                                                                                          |

| MFG 39 — SurfCAM I 2 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MATHEMATICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MATH 55 — Statway I 5 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Degree Applicable, CSU<br>18 hours lecture<br>54 hours lab<br><i>Advisory: MFG 11, MFG 85</i><br>SurfCAM software used to create part geometry from project drawings<br>for two-axis milling and turning parts. Tool paths will be added and<br>files completed and post-processed. Files will be downloaded to CNC<br>machines. Students will be required to set up all cutting tools and<br>machine the part.<br><b>I MFG 39B — SurfCAM II</b><br>Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul> <li>MATH 50 — Pre-Algebra 3 Units<br/>Not Degree Applicable</li> <li>54 hours lecture</li> <li>Prerequisite: LERN 49 or qualifying score on current department placement<br/>test</li> <li>Fundamental principles of mathematics designed to ease the transition<br/>from arithmetic to algebra. Concepts, computational skills, thinking skills<br/>and problem-solving skills are balanced to build proficiency and<br/>mastery.</li> <li>MATH 51 — Elementary Algebra 4 Units<br/>Not Degree Applicable</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Degree Applicable<br>90 hours lecture<br><i>Prerequisite: MATH 50 or qualifyng score on current department placement</i><br><i>test.</i><br>The Statway path is a two-semester sequence recommended for majors<br>that require no mathematics beyond freshman-level statistics. Math 55<br>is the first semester of two in the Statway sequence. Math 55 includes<br>topics from descriptive statistics (experimental design and descriptive<br>statistics), and beginning algebra (linear and quadratic algebraic<br>phenomena), and is a prerequisite for Math 115, the second course in<br>the Statway sequence. Both courses in the sequence, Math 55 and 115,<br>must be taken to receive credit for college level statistics.                                                                                                                                                                                                                                                                     |
| <ul> <li>18 hours lecture</li> <li>54 hours lab</li> <li>Advisory: MFG 39</li> <li>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.</li> <li><b>MFG 74</b> — Manufacturing Technology Work Experience 1 Unit Not Degree Applicable (May be taken for Pass/No Pass only)</li> <li>75 hours lab</li> <li>Prerequisite: Compliance with work experience regulations as designated in the College catalog. Completion of MFG 11, 12, 58, 70 and 85.</li> <li>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.</li> <li>Students who repeat this course will improve skills through further</li> </ul> | <ul> <li>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.     </li> <li>         MATH 51A — Elementary Algebra - First Half 3 Units             Not Degree Applicable      </li> <li>         54 hours lecture         Prerequisite: MATH 50 or qualifying score on current department             placement test      </li> <li>         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.     </li> </ul> | <ul> <li>MATH 61 — Plane Geometry</li> <li>3 Units:<br/>Degree Applicable</li> <li>54 hours lecture</li> <li>Prerequisite: MATH 51 or MATH 51B or MATH 52 or qualifying score on<br/>current department placement test</li> <li>Points, lines, polygons and circles; their relationships to each other on<br/>plane surfaces; congruence, similarity and area. Introduction to<br/>inductive, deductive and indirect reasoning. The formal proof is<br/>introduced and practiced throughout the course. Stress is placed on<br/>accuracy of statement as a background for analytical and scientific<br/>reasoning.</li> <li>MATH 71 — Intermediate Algebra</li> <li>5 Units:<br/>Degree Applicable</li> <li>90 hours lecture</li> <li>Prerequisite: MATH 51 or MATH 51B or qualifying score on current<br/>department placement test</li> <li>Polynomial, rational, radical, exponential and logarithmic expressions<br/>are simplified, equations solved and functions graphed and studied;</li> </ul> |
| instruction and practice.  MFG 85 — Manual Computerized Numerical Control 2 Units (CNC) Programming 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.                                                                                                                                                                                                                                                                                                                                                                                                                 | ■ MATH 51B — Elementary Algebra - Second Half 3 Units<br>Not Degree Applicable<br>54 hours lecture<br><i>Prerequisite: MATH 51A</i><br>Contains the second half of Elementary Algebra. Includes: Cartesian<br>Coordinate System, slope/graphing/equations of lines, solving systems<br>of linear equations, algebraic operations with radicals, solving equations<br>with radicals, solving second degree equations using methods of<br>completing the square and the quadratic formula. Students must<br>complete both MATH 51A and MATH 51B to have taken the equivalent<br>of Elementary Algebra (MATH 51).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul> <li>linear and nonlinear systems of equations and inequalities; conic sections; sequence, series and the binomial theorem.</li> <li>MATH 71A — Intermediate Algebra - First Half 3 Unit: Degree Applicable 54 hours lecture</li> <li>Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test.</li> <li>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 approximately half of the MATH 71 topics. A student must complete both MATH 71A and 71B to have taken the equivalent of MATH 71, Intermediate Algebra.</li> </ul>                                                                                                                                                                                                                                                                                            |

| MATH 71B — Intermediate Algebra - Second Half 3 Units<br>Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MATH 100 — Survey of College Mathematics 3 Units<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MATH 130 — College Algebra 4 Units<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| 54 hours lecture<br>Prerequisite: MATH 71A<br>Quadratic equations and graphs; exponents, radicals and logarithms;<br>conic sections. Covers remaining MATH 71 topics at a slower pace. A<br>student must complete both MATH 71A AND MATH 71B to have taken<br>the equivalent of MATH 71A, Intermediate Algebra.                                                                                                                                                                                                                                                                                                                               | 54 hours lecture<br>Prerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying score on<br>current department placement test) and (MATH 61 or passing score on<br>current geometry competency test)<br>Introduction to mathematical methods and reasoning. Topics include: set<br>theory, logic, counting methods, probability and statistics, with<br>additional topics selected from numeration and mathematical systems,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 72 hours lecture<br><i>Prerequisite: MATH 71 or MATH 71B or qualifying score on current</i><br><i>department placement test</i><br>A college-level course in algebra. A study of real numbers and sets,<br>algebraic functions and relations, radicals and exponents, linear and<br>quadratic equalities and inequalities, exponential and logarithmic<br>functions, systems of linear and quadratic equations, complex numbers,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MATH 71X — Practical Intermediate Algebra 5 Units<br>Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | number theory, geometry, graph theory and mathematical modeling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | series, theory of equations, mathematical induction and binomial formula.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul> <li>90 hours lecture</li> <li>Prerequisite: Math 51 or Math 51B or Math 55 or qualifying score on current department placement test.</li> <li>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</li> </ul> | <ul> <li>MATH 110 — Elementary Statistics</li> <li>3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on<br/>current department placement test</li> <li>Emphasis is placed on the understanding of statistical methods.</li> <li>Descriptive analysis of sample statistics, distribution of discrete and<br/>continuous random variables, estimation theory, tests of hypotheses,<br/>regression, correlation and analysis of variance.</li> <li>MATH 110H — Elementary Statistics - Honors</li> <li>3 Units</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      | <ul> <li>MATH 140 — Calculus for Business 4 Units<br/>Degree Applicable, CSU, UC</li> <li>72 hours lecture</li> <li>Prerequisite: MATH 130 or MATH 160 or qualifying score on current<br/>department placement test.</li> <li>Calculus for business, social science, and non-science majors. Algebraic,<br/>logarithmic, and exponential functions; limits; differentiation with<br/>applications; various techniques of integration with applications;<br/>differential equations; multi variable calculus. Credit not given to<br/>provide the distance of the second science of the second scienc</li></ul> |
| probabilities; data gathering instruments are used to sample data for curve fitting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Degree Applicable, CSU, UC<br>54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | persons with credit in MATH 180 or equivalent.         MATH 150 — Trigonometry       3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MATH 96 — Strategies for Math Success 1 Unit<br>Not Degree Applicable<br>(May be taken for Pass/No Pass only)<br>18 hours lecture<br>Learning tools, plans and proper perspectives for math learning<br>improvement. Use of natural intelligence strengths to simplify and<br>optimize your mathematical educational experience. Overcome test<br>anxiety and enhance testing abilities. Course is appropriate for all levels<br>of mathematics students.                                                                                                                                                                                     | <ul> <li>Prerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying passing score on current department placement test) and acceptance into the Honors Program</li> <li>Emphasis is placed on the understanding of statistical methods.</li> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                            | Degree Applicable, CSU<br>54 hours lecture<br>Prerequisite: MATH 71 or 71B or qualifying score on current department<br>placement test AND Math 61 or passing score on current geometry<br>competency test.<br>Trigonometry functions and inverse trigonometric functions and the<br>graphical representations of these functions; solutions to right and<br>oblique triangles with laws of sines and cosines; vectors; solutions to<br>trigonometric equations; identities; polar coordinates; complex numbers<br>and DeMoivre's Theorem.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MATH 99 — Special Projects in Mathematics 2 Units<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>36 hours lecture<br>In order to offer selected students recognition for their academic<br>interests and ability and the opportunity to explore their disciplines to<br>greater depth, the various departments from time to time offer Special<br>Projects courses. The content of each course and the methods of study<br>vary from semester to semester and depend on the particular project<br>under consideration. Students who repeat this course will improve skills<br>through further instruction and practice. | <ul> <li>MATH 115 — Statway II</li> <li>5 Units<br/>Degree Applicable, CSU</li> <li>90 hours lecture</li> <li>Prerequisite: MATH 55</li> <li>The Statway path is a two-semester sequence recommended for majors<br/>that require no mathematics beyond freshman-level statistics. Math 115<br/>is the second semester of the Statway sequence. Math 115 includes<br/>topics from intermediate algebra (radical, exponential, and logarithmic<br/>algebraic phenomena) and inferential statistics.</li> <li>MATH 120 — Finite Mathematics</li> <li>3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on<br/>current department placement test.</li> <li>Mathematics for business, social science and biological science majors.</li> <li>Topics include linear programming, matrix theory, probability, statistics,<br/>stochastic processes, Markov chains, and math of finance.</li> </ul> | <ul> <li>MATH 160 — Precalculus Mathematics 4 Units<br/>Degree Applicable, CSU, UC</li> <li>72 hours lecture</li> <li>Prerequisite: MATH 150, or qualifying score on current department<br/>placement test.</li> <li>Prepares students for the calculus sequence. Real-valued functions,<br/>including algebraic, trigonometric, exponential, and logarithmic<br/>functions. Also includes proofs, inequalities, introductory analytical<br/>geometry, series, sequences, and vectors.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <ul> <li>MATH 180 — Calculus and Analytic Geometry 4 Units<br/>Degree Applicable, CSU, UC</li> <li>72 hours lecture</li> <li>Prerequisite: MATH 160 or qualifying score on current department<br/>placement test</li> <li>Functions, curve sketching, limits, the derivative, rules for differentiation<br/>of algebraic and trigonometric functions, applications of the derivative.<br/>Indefinite and definite integrals, numerical integration, and calculus<br/>with exponential, logarithmic, and other transcendental functions.</li> <li>MATH 181 — Calculus and Analytic Geometry 5 Units<br/>Degree Applicable, CSU, UC</li> <li>90 hours lecture</li> <li>Prerequisite: MATH 180<br/>Applications of integration, techniques of integration; indeterminate forms</li> </ul> | ■ MATH 285 — Linear Algebra and Differential Equations 5 Units<br>Degree Applicable, CSU, UC<br>90 hours lecture<br><i>Prerequisite: MATH 280</i><br>First order ordinary differential equations, including separable, linear,<br>homogeneous of degree zero, Bernoulli and exact with applications and<br>numerical methods. Solutions to higher order differential equations<br>using undetermined coefficients, variation of parameters, and power<br>series, with applications. Solutions to linear and non-linear systems of<br>differential equations, including numerical solutions. Matrix algebra,<br>solutions of linear systems of equations, and determinants. Vector<br>spaces, linear independence, basis and dimension, subspace and inner<br>product space, including the Gram-Schmidt procedure. Linear<br>transformations, kernel and range, eigenvalues, eigenvectors, | ■ MENT 56L — Medical-Surgical Clinical Experience 4 Units<br>Degree Applicable<br>(May be taken for Pass/No Pass only)<br>216 hours lab<br><i>Corequisite: MENT 56</i><br>Development of medical-surgical nursing skills. Application and<br>assessment, intervention, evaluation of nursing treatment in the<br>physiological modes of rest and exercise, regulation, nutrition, elimination,<br>application of emergency procedures, circulation, ventilation, fluids, and<br>electrolytes. Psychosocial aspects of care including interdependence, role<br>function, self concept, care of aged, and cultural aspects. Application of<br>nursing skills for those with medical-surgical problems and special needs.<br>Calculation and administration of medications. Roy?s Adaptation Model<br>serves as the conceptual framework. |
| and improper integrals; infinite series; plane curves and parametric<br>equations; vectors in two and three space and their applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | diagonalization and symmetric matrices. MEDICAL TERMINOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MENT 58D — Advanced Medical-Surgical Nursing 4 Units<br>and Pharmacology for Psychiatric Technicians<br>Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ■ MATH 210 — Concepts of Elementary Mathematics 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: MATH 100</i><br>Structure and theory of the mathematics that constitute the core of K-8<br>mathematics curriculum. Concepts include the essential elements of a<br>number system; fundamental understanding of operations upon whole                                                                                                                                                                                                                                                                                                                                                                                                                         | ■ MEDI 90 — Medical Terminology 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Introduction to the use and meaning of the medical terminology used<br>in various allied health fields. Relates to other allied health fields and<br>can apply to secretarial science majors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 72 hours lecture<br><i>Prerequisite: MENT 56, MENT 56L</i><br><i>Corequisite: MENT 58L</i><br>Examines disease processes affecting body systems, etiology, required<br>nursing care; study of drugs, standards, administration; dose<br>calculations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| numbers, rational numbers and integers; higher-order critical thinking skills and strategies in the area of problem solving.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MENTAL HEALTH/PSYCHIATRIC TECHNICIAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MENT 58L — Advanced Medical-Surgical Nursing<br>for Psychiatric Technicians Clinical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| MATH 245 — A Transition to Advanced Mathematics 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: MATH 181<br>A transition to the rigors of upper-division mathematics courses. Basic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ■ MENT 40 — Introduction to Interviewing and Counseling 3 Units<br>Degree Applicable<br>54 hours lecture<br>Theory and practice in interviewing skills. Stresses application of<br>counseling theories, helping skills, and consultation theories to allow<br>exploration of self as a helper and learn facilitating skills to bring about<br>change. Emphasis on establishing rapport, obtaining information and                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Degree Applicable<br>(May be taken for Pass/No Pass only)<br>90 hours lab<br><i>Prerequisite: MENT 56 and MENT 56L</i><br>Application of nursing skills to patients with medical and surgical<br>disorders. Administration of medications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | developing a supportive relationship in a variety of mental health<br>settings. Students may not receive credit for both MENT 40 and PSYC<br>40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MENT 70 — Introduction to Psychiatric Technology 1.5 Units<br>Degree Applicable 27 hours lecture Prerequisite: Admission to Psychiatric Technician Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| MATH 280 — Calculus and Analytic Geometry 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: MATH 181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MENT 56 — Medical-Surgical Nursing for<br>Psychiatric Technicians     Degree Applicable     162 hours lecture     Prerequisite: Admission to the Psychiatric Technician Program     Corequisite: MENT 56L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <i>Corequisite: MENT 70L</i><br>Role and function of the Psychiatric Technician. Includes mental health<br>theories of personality development, self-concept, role function, and<br>interdependence. Also includes developmental disabilities theories of<br>sensori-motor techniques and behavior modification techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Analysis of vector-valued functions of several variables, partial<br>derivatives, differentials, the chain rule, directional derivatives and the<br>gradient. Extrema of functions of several variables with applications.<br>Double and triple integrals in various coordinate systems with<br>applications. Vector fields, line integrals, work, independence of path in<br>conservative fields. Green's Theorem, surface integrals, flux, divergence<br>and curl, Stokes' Theorem, the Divergence Theorem.                                                                                                                                                                                                                                                                          | 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 70L — Introduction to Psychiatric 2 Units<br>Technology Clinical Technicians Degree Applicable (May be taken for Pass/No Pass only) 108 hours lab <i>Corequisite: MENT 70</i> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| <ul> <li>MENT 72 — Nursing Care of the Developmentally 7 Units Disabled Person</li> <li>Degree Applicable</li> <li>126 hours lecture</li> <li>Prerequisite: MENT 56, MENT 56L, MENT 70, MENT 70L Corequisite: MENT 72L</li> <li>Etiology of developmental disabilities; develops the knowledge, skills, and attitudes necessary to safely teach and train the developmentally disabled person. Techniques of behavior modification and sensorimotor training are used, as well as the teaching of self-help skills. Examines normal development from infancy to the aged.</li> <li>MENT 72L — Nursing Care of the Developmentally 5.5 Units Disabled Person - Clinical</li> <li>MENT 72L — Nursing Care of the Developmentally 5.5 Units Disabled Person - Clinical</li> <li>Mextra 25, No Pass only) 287 hours lab</li> <li>Corequisite: MENT 72</li> <li>Application of skills needed to teach, train, and provide care for the developmentally disabled person. Calculation and administration of</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul> <li>MENT 82 — Work Experience in Mental Health Technology 2 Units<br/>Degree Applicable</li> <li>(May be taken for Pass/No Pass only)</li> <li>150 hours lab</li> <li>Prerequisite: Compliance with Work Experience regulations as designated<br/>in the College Catalog, MENT 72, MENT 73T</li> <li>Provides majors with actual on-the-job experience in an approved work<br/>station related to classroom instruction. A minimum of 60 non-paid or<br/>75 paid clock hours per semester is required for each unit of credit. It is<br/>recommended that the hour per week be equally distributed<br/>throughout the semester. Veterans may not use work experience courses<br/>as credit towards veterans benefits.</li> <li>METEOROLOGY</li> <li>METO 3 — Weather and the Atmospheric Environment 3 Units<br/>Degree Applicable, CSU, UC<br/>54 hours lecture</li> <li>An introduction to the atmosphere. Processes that influence weather<br/>and climate: seasonality, structure of the atmosphere, atmospheric<br/>ethelitemere mental of the atmosphere.</li> </ul> | <ul> <li>MICR 22 — Microbiology</li> <li>4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>54 hours lab<br/>Prerequisite: CHEM 10 or CHEM 40<br/>Advisory: BIOL 1, BIOL 4 or BIOL 4H</li> <li>Fundamental concepts of microbiology including viruses, bacteria, fungi,<br/>protozoa and parasitic worms.</li> </ul> MUSIC MUS 2 — Music Theory 3 Units<br>Degree Applicable, CSU, UC 54 hours lecture<br>Corequisite: MUS 5A<br>Preparation for the study of harmony and form as it is practiced in<br>Western tonal music. Topics include scales, intervals, chords, cadences,<br>counterpoint and Roman numeral analysis. Ability to read music<br>notation is advised. Required for music majors. MUS 3A — Harmony 3 Units |
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| medication.         MENT 73L — Psychiatric Nursing for Psychiatric Technicians Clinical       5.5 Units         Degree Applicable         (May be taken for Pass/No Pass only)       287 hours lab         Prerequisite: Admission to Psychiatric Technician Program. MENT 56 and MENT 56L         Corequisite: MENT 73T         Clinical instruction in the treatment of mental disabilities and substance abuse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | stability, severe weather (hurricanes, tornadoes, thunderstorms,) climate<br>change, and the causes and effects of air pollution. Students will use a<br>variety of weather instruments, and the course may include either field<br>work or field trips.<br>METO 3L — Weather and Atmospheric<br>Environment Laboratory<br>Degree Applicable, CSU, UC<br>54 hours lab<br><i>Corequisite: METO 3 (may have been taken previously)</i><br>Laboratory topics paralleling the course content of METO 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: MUS 2, MUS 5A</i><br><i>Corequisite: MUS 5B</i><br>An examination of the harmonic style of Western tonal music from the<br>common practice period. Topics include elementary chord syntax, the<br>principles of voice leading, simple figured bass realization, soprano<br>harmonization, basic non-chord tones, seventh chords, basic modulation<br>techniques, period forms and binaries. Students will compose original<br>music in the harmonic and melodic style of Classical models.                                                                                                                                                                                         |
| Image: Mexical and the system of the syst | MICROBIOLOGY 5 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>108 hours lab<br>Prerequisite: CHEM 10 or CHEM 40. One year of college chemistry is<br>recommended for all transfer majors. CHEM 50/51 sequence is<br>preferred for biology and most pre-health professional majors<br>Fundamental concepts of microbiology with emphasis on bacteria.<br>Survey of microbial classification, morphology, physiology and genetics;<br>beneficial and pathological aspects; growth and control of microbes;<br>virology, immunology, and host-microbe interactions. Important<br>infectious diseases of humans are surveyed. Laboratory exercises<br>examine microbial morphology, physiology and genetics, as well as<br>environmental influences of microorganisms. Laboratory techniques<br>include culturing, examining, and identifying microorganisms. Field trips<br>are required.                                                                                                                                                                              | MUS 3B — Harmony 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: MUS 3A, MUS 5B</i><br><i>Corequisite: MUS 6A</i><br>Further examination of the harmonic style of Western tonal music from<br>the common practice period, with emphasis on the contrapuntal music<br>of the Baroque Era. Topics include secondary function chords, advanced<br>non-chord tones, advanced figured bass realization, harmonic<br>sequences, modified species, 18th century counterpoint and imitative<br>contrapuntal forms. Students will write analysis papers and compose<br>original music in the harmonic and melodic style of Baroque models.                                                                                       |

| Degree Applicable, CSU, UC<br>S4 hours lecture<br>Prerequisite: MUS 3B, MUS 6A<br>Corequisite: MUS 6B<br>Further examination of the harmonic style of Western tonal music from<br>the common practice period, with emphasis on 18th and 19th century<br>repertoire. Topics include modal mixture, chromatic harmony, extended<br>tonicization, advanced modulation techniques, lieder, rondo and sonata<br>form. Students will write analysis papers and compose original music in<br>the harmonic and melodic style of Romantic models.<br><b>I MUS 5A — Musicianship - Ear Training and 1.5 Units<br/>Sight Singing</b> Degree Applicable, CSU, UC<br>18 hours lecture<br>18 hours lecture<br>18 hours lab<br>Corequisite: MUS 2<br>Training in diatonic sight singing, rhythm reading, aural recognition and<br>the dictation of rhythm and diatonic melody. Ability to read music and<br>match pitch is advised. Required for music majors.<br><b>I MUS 5B — Musicianship - Ear Training and 1 Unit<br/>Sight Singing</b> Degree Applicable, CSU, UC<br>18 hours lecture<br>18 hours lecture<br>18 hours lab<br>Prerequisite: MUS 3A<br>Provides further training in sight singing, aural perception and<br>dictation, including soprano-bass dictation of diatonic Bach-style<br>chorales. Students will be aided by the use of a computer lab, and<br>documented lab time outside of class will be required for successful<br>course completion.<br><b>I MUS 6A — Musicianship - Advanced 2 Units</b><br>Degree Applicable, CSU, UC<br>36 hours lecture<br>18 hours lab<br>Prerequisite: MUS 3A<br>Provides further training in sight singing, aural perception and<br>dictation, including soprano-bass dictation of diatonic Bach-style<br>chorales. Students will be aided by the use of a computer lab, and<br>documented lab time outside of class will be required for successful<br>course completion.<br>36 hours lecture<br>18 hours lab<br>Prerequisite: MUS 3A<br>Corequisite: MUS 3B<br>Advanced training in sight singing, aural perception and dictation,<br>including soprano-bass dictation of modulating Bach-style chorales and<br>mintative counterpoint. Students will be aided by the use of a computer<br>lab, an | <ul> <li>MUS 6B — Musicianship - Advanced Degree Applicable, CSU, UC S4 hours lecture Applicable of 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.</li> </ul> | <ul> <li>MUS 12 — History of Jazz 3 Units<br/>Degree Applicable, CSU, UC<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Advisory: Eligibility for ENGL 68<br/>A survey of jazz as a significant American art form from its roots in<br/>African and Creole music to the present. Major styles, leading<br/>performers, significant compositions and recordings, and the social,<br/>economic, and cultural contexts of the music will be stressed.</li> <li>MUS 13 — Introduction to Music Appreciation 3 Units<br/>Degree Applicable, CSU, UC<br/>54 hours lecture<br/>An introductory study of music from a variety of cultures including a<br/>survey of western music from the Medieval period through the 21st<br/>century. Lectures are augmented by recordings and other support media<br/>pertinent to the culture/period being studied. Attending at least one<br/>live concert is required.</li> <li>MUS 13H — Introduction to Music Appreciation - Honors 3 Units<br/>Degree Applicable, CSU, UC<br/>54 hours lecture<br/><i>Prerequisite: Acceptance into the Honors Program</i><br/>An introductory study of music from a variety of cultures including a<br/>survey of western music from the Medieval period through the 21st<br/>century. Lectures are augmented by recordings and other support media<br/>pertinent to the culture/period being studied. Attending at least one<br/>live concert is required. An honors course designed to provide an<br/>enriched experience. Students may not receive credit for both MUS 13<br/>and MUS 13H.</li> <li>MUS 14A — World Music 3 Units<br/>Degree Applicable, CSU, UC<br/>54 hours lecture<br/>Advisory: Eligibility for ENGL 68<br/>Examines the dominant musical cultures of the world within Africa, the<br/>Americas, and Asia and compares these to Western popular music.<br/>Identifies vocal and instrumental genres within selected cultures and<br/>examines the harmonic, melodic, and rhythmic characteristics of each<br/>style. Lectures, films, recordings, and media presentations will assist the<br/>student in exploring the ways in which music is used around the world<br/>for asthetic, social, and spiritual purposes.</li></ul> |
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No previous musical experience required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| MUS 15 — Rock Music History and Appreciation 3 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Historical survey of rock music from its beginnings in the early 50's to<br>the present. Rhythm and Blues, Rockabilly, the British Invasion, Motown,<br>Soul, Folk Rock, Hard Rock, Punk, Heavy Metal, and various Alternative<br>Rock styles will discussed. Personalities and musical styles will be<br>related to the sociology of the time period being studied. | MUS 20A — Elementary Class Voice 1.5 Units<br>Degree Applicable, CSU, UC<br>18 hours lecture<br>18 hours lab<br>Group instruction on the basics of singing with special emphasis on<br>breath control and its importance in the singing of the musical line.<br>English and American songs will be studied. Open to non-music majors<br>and recommended for all music majors.                                                                                                                                                                                                                             | MUS 24 — Advanced Guitar 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>48 hours lab<br>Advisory: MUS 23B<br>Style, technique, and interpretation of guitar music of the 18th and<br>19th centuries. Includes sight reading and ensemble playing. Students<br>must furnish their own acoustic guitars.                                                                                                                                                                            |
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| MUS 16 — Individual Instruction .5 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>32 hours lab<br><i>Prerequisite: Admission by audition</i><br>Applied music for students also enrolled in a major performing group.<br>Instruction includes a private one-half hour lesson per week. Individual<br>problems of performance techniques, interpretation, and repertoire are<br>included. Students who repeat this course will improve skills through<br>further instruction and practice.                    | <ul> <li>MUS 20B — Intermediate Class Voice 1.5 Units<br/>Degree Applicable, CSU, UC</li> <li>18 hours lecture</li> <li>18 hours lab</li> <li>Advisory: MUS 20A</li> <li>Group and individual instruction toward mastering the basic skills<br/>required for a solid singing technique for popular, theatrical, and<br/>classical music. Studies of musicianship will concentrate on individual<br/>vocal problems.</li> <li>MUS 21 — Advanced Class Voice 1.5 Units</li> </ul>                                                                                                                           | <ul> <li>MUS 25A — Jazz Improvisation</li> <li>1 Unit<br/>Degree Applicable, CSU, UC<br/>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>48 hours lab</li> <li>Styles and techniques of jazz improvisation. Students must furnish their<br/>own musical instruments to play for and with the class.</li> <li>MUS 25B — Jazz Improvisation</li> <li>1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> </ul> |
| MUS 17A — Elementary Piano 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>54 hours lab<br>Reading and performance of piano literature with emphasis on scales,<br>chord progressions, and sight reading. Students who repeat this course<br>will improve skills through further instruction and practice. No prior<br>musical experience is required.                                                                                                                                                      | Degree Applicable, CSU, UC<br>18 hours lecture<br>18 hours lab<br>Advisory: MUS 20B<br>Group and individual study of the style, techniques, and interpretation<br>of art songs and songs from operas and musicals. Emphasis will be<br>placed on diction and pronunciation of foreign languages.<br>MUS 22 — Conducting<br>1.5 Units                                                                                                                                                                                                                                                                      | (May be taken for option of letter grade or Pass/No Pass)<br>48 hours lab<br>Advisory: MUS 25A<br>Advanced techniques of jazz improvisation. Includes minor, dominant,<br>and pentatonic scales along with arpeggiating polychords, altered<br>chords, chord progressions, and 32-bar jazz standards. Students must<br>furnish their instruments and be able to perform individually and with<br>the class. Students who repeat this course will improve skills through<br>further instruction and practice.       |
| MUS 17B — Intermediate Class Piano 1.5 Units<br>Degree Applicable, CSU, UC<br>18 hours lecture<br>18 hours lab<br>Advisory: MUS 17A or professor approval<br>Reading and performances of piano literature with further emphasis on<br>scales, chord progressions, and sight reading.                                                                                                                                                                                                                                                        | Degree Applicable, CSU<br>18 hours lecture<br>18 hours lab<br>Teaches and practices basic beat patterns, score reading, and rehearsal<br>techniques. Offers an opportunity to learn and apply the techniques<br>needed for group direction and leadership.                                                                                                                                                                                                                                                                                                                                                | <ul> <li>MUS 27 — Chamber Winds</li> <li>Degree Applicable, CSU, UC (May be taken four times for credit)</li> <li>72 hours lab</li> <li>Prerequisite: Admission by audition</li> <li>Select ensemble of wind and percussion instrumentalists specializing in the performance of high quality chamber music from the medieval</li> </ul>                                                                                                                                                                            |
| MUS 18 — Advanced Class Piano<br>Degree Applicable, CSU, UC<br>18 hours lecture<br>18 hours lab<br>Advisory: MUS 17B<br>The style, technique and interpretation of piano music from the 17th<br>century to the present is studied collectively and individually. Sight<br>reading, improvisation and ensemble playing will be emphasized.<br>Recommended for music majors.                                                                                                                                                                  | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>48 hours lab<br>Acoustic guitar playing, note reading, strumming, finger picking and<br>improvisation. Students must furnish their own guitars. Students who<br>repeat this course will improve skills through further instruction and<br>practice.<br><b>MUS 23B — Intermediate Class Guitar</b><br>1.5 Units<br>Degree Applicable, CSU, UC<br>18 hours lecture<br>18 hours lab<br>Advisory: MUS 23A<br>Techniques for reading and playing music arranged for the solo guitar.<br>Students must furnish their own acoustic guitar. | period to the present. The course may include brass quintets, woodwind<br>quintets, saxophone quartets, and mixed instrumental ensembles of two<br>through twenty performers. Students must have previous instrumental<br>experience and pass an entrance audition. Public performances on<br>campus and in the community are required. Students who repeat this<br>course will improve skills through further instruction and practice.                                                                           |

| <ul> <li>MUS 29 — Choral Workshop</li> <li>1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>54 hours lab</li> <li>Choral music of all genres with an emphasis on strengthening choral<br/>skills, including sight singing, tone, blend, balance and good vocal<br/>technique. Covers choral tone of the Renaissance to correct use of the<br/>microphone when singing pop or vocal jazz. Students who repeat this<br/>course will improve skills through further instruction and practice. Open<br/>to all students without an audition.</li> <li>MUS 30 — Collegiate Chorale</li> <li>1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>54 hours lab</li> <li>A non-auditioned mixed choral ensemble open to all students. A variety<br/>of mixed choral repertoire will be studied and performed, from music of<br/>the Renaissance to contemporary Pop, Broadway, and Vocal Jazz.</li> <li>Rehearsal time will also be devoted to vocal development and<br/>improving music theory skills. Students who repeat this course will<br/>improve skills through further instruction and practice.</li> <li>MUS 31 — Concert Choir</li> <li>2 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>108 hours lab</li> <li>Prerequisite: Admission by audition the first week of class</li> <li>A large mixed choral ensemble in which students perform a variety of<br/>major choral works. Classical songs are rehearsed in class and<br/>performed for a public audience. Sight singing skills and proper vocal<br/>technique are emphasized. Voice placement auditions are held the first<br/>week of class. Attendance at all performances including those off-site is<br/>required. Students who repeat this course will improve skills through<br/>further instruction and practice.</li> </ul> | <ul> <li>MUS 34 — Women's Vocal Ensemble<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>108 hours lab</li> <li>Prerequisite: Admission by audition during the first week of class</li> <li>Women's vocal ensemble that studies and performs selected classical<br/>works, folk songs, spirituals, and popular compositions. Attendance is<br/>required at all public performances including off-campus locations.<br/>Students who repeat this course will improve skills through further<br/>instruction and practice.</li> <li>MUS 36 — Concert and Community Band<br/>1.5 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lab<br/>Advisory: Previous band experience<br/>A non-auditioned wind and percussion ensemble open to all students<br/>with prior instrumental experience. A variety of wind band repertoire<br/>will be studied and performed, from music of the medieval period to<br/>contemporary compositions. Rehearsal time will also be devoted to<br/>instrumental and aural skills development. Opportunities to conduct,<br/>arrange and compose music, and perform as a soloist may be provided.<br/>Students who repeat this course will improve skills through further<br/>instruction and practice. Public performances on campus and in the<br/>community are required each semester.</li> <li>MUS 38 — Ensemble<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>36 hours lab</li> <li>Prerequisite: Ability to read music or admission by audition<br/>The study and performance of music written for small ensembles. On<br/>comput provent and performance or music written for small ensembles. On<br/>comput provent and performance or music written for small ensembles. On</li> </ul> | <ul> <li>MUS 44 — Vocal Jazz Ensemble 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 <i>Prerequisite: Admission by audition</i> 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.</li> <li>MUS 45 — Chamber Singers 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 162 hours lab <i>Prerequisite: Admission by audition</i> Premier 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. Off-campus performances are required.</li> <li>MUS 46 — Mt. SAC Singers 1.5 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(May be taken four times for credit)</li> <li>(Mus 46 — Mt. SAC Singers 1.5 Units Degree Applicable, CSU, UC (May be taken four times for credit)</li> <li>(May be taken four times for cred</li></ul> |
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| MUS 32 — Masterworks Chorale 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>54 hours lab<br>Prerequisite: Admission by audition during the first week of class<br>This Soprano, Alto, Tenor, Bass choir will perform major choral works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | campus performances may be required. 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Prerequisite: Admission by audition<br>The "Mt. SAC Singers" is a select choral ensemble, specializing in<br>choreographed popular and musical theater literature. Includes a wide<br>variety of music performed publicly several times every semester.<br>Emphasizes advanced musical skills, vocal technique, choreography and<br>showmanship skills. Off campus performances may be required.<br>Students who repeat this course will improve skills through further<br>instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ranging from the Baroque era to the 20th century. In addition to<br>preparation and performance of quality choral literature from all genres,<br>time will be spent on vocal development and music theory. Students<br>who repeat this course will improve their skills through further<br>instruction, practice, and knowledge of varied repertoire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 108 hours lab<br>Prerequisite: Admission by audition<br>Study and performance of jazz and popular music of all types. Provides<br>the necessary training and experience for MUS 47, Jazz Band, or for the<br>improvement of jazz skills and understanding. Students who repeat this<br>course will improve skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ■ MUS 47 — Jazz Band 2 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>108 hours lab<br><i>Prerequisite: Admission by audition</i><br>Study and performance of jazz and big band music. Provides an<br>opportunity to learn techniques applicable to the large jazz ensemble.<br>Off-campus public performance required. Students who repeat this<br>course will improve skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Section 10 179

| ■ MUS 48 — Men's Vocal Ensemble 2 Units<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>108 hours lab<br><i>Prerequisite: Admission by audition the first week of class</i><br>The study and performance of selected classical works, folk songs,<br>spirituals, and popular compositions. Attendance is required at all public<br>performances. Students who repeat this course will improve skills<br>through further instruction and practice.                                                                                                                                                                                                                                         | ■ MUS 99 — Special Projects in Music 1 to 3 Units<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>54 to 162 hours lab<br>Offered to selected students in recognition of academic interests and<br>abilities to give them the opportunity to explore these interests and<br>abilities in greater depth. The content of each course and the methods<br>of study vary from semester to semester and depend on the particular<br>project under consideration. Students must have an instructor's approval<br>before enrolling in this course. Students repeating this course will make<br>individual contracts of a more advanced nature with the instructor to | ■ NURS 3 — Medical-Surgical Nursing: 3.5 Units<br>Locomotion/Sensation/ Integument/Oncolog<br>Degree Applicable, CSU<br>30 hours lecture<br>108 hours lab<br><i>Prerequisite: NURS 1B and NURS 2 or Advanced Placement</i><br>Concepts of nursing assessment and intervention with application to<br>clients with integumentary and immunologic disorders as well as<br>dysfunctions of sensation and locomotion. An introduction to oncology<br>nursing is included. The Betty Neuman Model serves as the conceptual<br>framework.       |
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| MUS 49 — Wind Ensemble 2 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>108 hours lab<br>Prerequisite: Admission by audition<br>The premier classical wind and percussion ensemble at the College.<br>Students must have previous musical training, a standard band<br>instrument and pass an entrance audition. A variety of wind band<br>repertoire will be studied and performed, from music of the medieval                                                                                                                                                                                                                                                                                         | ensure that proficiencies are enhanced. Projects must be approved in advance.  NURSING  NURS 1A — The Nursing Process I 5 Units Degree Applicable, CSU 45 hours lecture 135 hours lab Prerequisite: Admission to Nursing Program; ANAT 35 or equivalent and                                                                                                                                                                                                                                                                                                                                                                                                                      | NURS 4 — Maternity Nursing       3 Units         Degree Applicable, CSU       27 hours lecture         81 hours lab       Prerequisite: NURS 3 or Advanced Placement         Concepts of nursing assessment and intervention with application to maternity and newborn clients. The Betty Neuman Model serves as the conceptual framework.                                                                                                                                                                                                |
| period to contemporary composisions. Public performances on campus<br>and in the community are required and a concert tour may be included.<br>Opportunities to conduct, arrange and compose music, and perform as a<br>solist may be provided to capable students. Students who repeat this<br>course will improve skills through further instruction and practice.<br><b>MUS 50 — Jazz Improvisation and Performance Choir 3 Units</b><br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)                                                                                                                                                                 | ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or<br>equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and<br>ENGL 1A or equivalent<br>Corequisite: NURS 2<br>Principles of nursing as related to a culturally diverse population,<br>adulthood through senescence. Theory and application of the Nursing<br>Process. Including meaning of illness, promoting health patterns,<br>hygiene, safety, asepsis, medication administration, elimination,<br>communication. The Betty Neuman Model serves as the conceptual                                                                                                                               | ■ NURS 5 — Psychiatric Nursing 3 Units<br>Degree Applicable, CSU<br>27 hours lecture<br>81 hours lab<br><i>Prerequisite: NURS 4 or Advanced Placement and PSYC 1A</i><br>Concepts of nursing assessment and intervention with application to<br>clients with psychiatric disorders in a mental health setting. The Betty<br>Neuman Model serves as the conceptual framework.                                                                                                                                                              |
| 162 hours lab<br>An advanced vocal jazz choir. This choir will perform advanced vocal jazz<br>arrangements and students will study the historical, theoretical and<br>technical aspects of both instrumental and vocal jazz. Advanced solo<br>singing techniques and scat singing will be rehearsed and the choir will<br>perform at least one concert each semester at Mt. SAC along with<br>attending and performing at a variety of musical venues. This class will<br>have the opportunity to work with guest artists and make CD<br>recordings. Attendance is required at assigned public performances.<br>Students who repeat this course will improve skills through further<br>instruction and practice. Admission by audition. | framework.  INURS 1B — The Nursing Process II 5 Units Degree Applicable, CSU 45 hours lecture 135 hours lab Prerequisite: NURS 1A or Advanced Placement Corequisite: 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                                                                                                                                                                                                                | <ul> <li>NURS 6 — Pediatric Nursing</li> <li>3 Units<br/>Degree Applicable, CSU</li> <li>27 hours lecture</li> <li>81 hours lab</li> <li>Prerequisite: NURS 5 or Advanced Placement and CHLD 10 or PSYC 14</li> <li>Concepts of nursing assessment and intervention with application to<br/>pediatric clients. The Betty Neuman Model serves as the conceptual<br/>framework.</li> <li>NURS 7 — Medical-Surgical</li> <li>Nursing: Nutrition/Elimination/Surgical Asepsis<br/>Degree Applicable, CSU</li> <li>63 hours lecture</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 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.                                                                                                                                                                                                                                                                 | 215 hours lab<br>Prerequisite: NURS 6 or Advanced Placement<br>Concepts of nursing assessment and intervention with application to<br>clients with problems of nutrition, elimination, and the reproductive<br>systems. Clients in pre-, intra-, and post-operative settings are included.<br>The Betty Neuman Model serves as the conceptual framework.                                                                                                                                                                                  |

| <ul> <li>NURS 8 — Medical-Surgical Nursing: Circulation 5.5 Units and Oxygenation</li> <li>Degree Applicable, CSU</li> <li>45 hours lecture</li> <li>167 hours lab</li> <li>Prerequisite: NURS 7 or Advanced Placement</li> <li>Corcepts for nursing assessment and intervention with application to clients with cardiovascular and pulmonary problems. The Betty Neuman Model serves as the conceptual framework.</li> <li>NURS 9 — Leadership in Nursing</li> <li>1 Unit Degree Applicable, CSU</li> <li>18 hours lecture</li> <li>Prerequisite: NURS 7 or Advanced Placement</li> <li>Corception of the conceptual framework.</li> <li>Surgee Applicable, CSU</li> <li>18 hours lecture</li> <li>Prerequisite: NURS 7 or Advanced Placement</li> <li>Corequisite: NURS 7 or Advanced Placement</li> <li>Corequisite: NURS 7 or Advanced Placement</li> <li>Corequisite: NURS 8</li> <li>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.</li> </ul> | <ul> <li>NURS 70 — Role Transition 3 Units<br/>Degree Applicable</li> <li>(May be taken for Pass/No Pass only)</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: Advanced Placement; PT (Psychiatric Technician) or LVN<br/>(Licensed Vocational Nurse); ANAT 35 or equivalent and ANAT 36 or<br/>equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent,<br/>and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or<br/>equivalent, and PSYC 1A or equivalent, and CHLD 10 or equivalent or<br/>PSYC 14 or equivalent</li> <li>For the LVN (Licensed Vocational Nurse), PT (Psychiatric Technician) or<br/>advanced placement student transitioning into the role of the RN<br/>(Registered Nurse). Theory and application of concepts of physical<br/>assessment, the relationship of homeostatic mechanisms to fluid and<br/>electrolyte balance/imbalance utilizing the Betty Neuman Model as the<br/>conceptual framework.</li> </ul> | <ul> <li>NF 25H — Essentials of Nutrition - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> 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.</li> <li>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;</li> </ul> |
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| <ul> <li>NURS 10 — Medical-Surgical 4 Units<br/>Nursing: Integration/Regulation</li> <li>Degree Applicable, CSU</li> <li>45 hours lecture</li> <li>96 hours lab</li> <li>Prerequisite: NURS 8, NURS 9 or Advanced Placement</li> <li>Concepts of nursing assessment and intervention with application to<br/>clients with neurological and endocrine disorders. The Betty Neuman<br/>Model serves as the conceptual framework.</li> <li>NURS 11 — Preceptorship in Nursing 2 Units<br/>Degree Applicable, CSU</li> <li>(May be taken for Pass/No Pass only)</li> <li>112 hours lab</li> <li>Prerequisite: NURS 10 or Advanced Placement</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul> <li>NF 10 — Nutrition for Personal Health and Wellness 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture<br/>Prerequisite: Eligibility for ENGL 68</li> <li>Basic principles of human nutrition and their relationship to optimum<br/>health. Emphasizes nutrient needs, food selection and weight control<br/>during the various life stages from prenatal to adult. Student food<br/>intake is evaluated in several ways including computer diet analysis.<br/>This course is intended for non-health science majors.</li> <li>NF 20 — Principles of Foods with Lab<br/>Degree Applicable, CSU<br/>36 hours lecture<br/>54 hours lab</li> </ul>                                                                                                                                                                                                                                                                                                                     | <ul> <li>geographic factors in food availability; global food issues; sanitation and safety practices.</li> <li>INF 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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                    |
| <ul> <li>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.</li> <li>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</li> <li>Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing Program</li> <li>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.</li> </ul>                                                                                      | Introduction to basic food science principles and food preparation<br>procedures with emphasis on ingredient functions and interaction; food<br>preparation techniques and skills; sensory evaluation standards; food<br>safety and sanitation; food preparation equipment and utensils; storage<br>standards; and nutrient retention.<br><b>INF 25 — Essentials of Nutrition</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Scientific concepts of nutrition related to the function of nutrients in<br>basic life processes with emphasis on current health issues; individual<br>needs; functions and sources of nutrients; scientific method for analysis<br>and evaluation of nutrition information; dietary guidelines and current<br>nutrition recommendations; digestion, absorption and metabolism;<br>health, fitness and disease; nutrition in the life span.                                  | ■ NF 61 — Creative Foods 3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br>Advisory: NF 20 or food preparation experience<br>Instruction in the skills necessary for more advanced methods of food<br>preparation. Topics include garde manger, baking and pastry, and<br>international cuisine, techniques of healthy cooking, and vegetarian<br>cuisine with emphasis placed on knife skills, garnishing, plate<br>presentation and creative decorating.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**COURSE DESCRIPTIONS** 

| ■ NF 62 — Meal Management 3 Units<br>Degree Applicable, CSU<br>36 hours lecture<br>54 hours lab<br><i>Advisory: NF 20 or equivalent food preparation experience</i><br>Develop management skills related to food preparation, emphasizing<br>planning, preparing, and serving adequate and attractive meals while<br>managing resources including time, money and labor. Includes<br>laboratory experience in planning, preparing and serving meals.<br>■ NF 81 — Cooking for Your Heart and Health 1 Unit<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>12 hours lecture<br>18 hours lab<br>Principles and techniques of healthful food preparation emphasizing the<br>reduction of fat, saturated fat, trans fat, cholesterol, and sodium, and the                                                                                                                                                                 | <ul> <li>OCEA 10L — Introduction to Oceanography Laboratory 1 Unit Degree Applicable, CSU, UC 54 hours lab <i>Corequisite: OCEA 10 or OCEA 10H (May have been taken previously)</i> 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.</li> <li>PHILOSOPHY</li> <li>PHIL 3 — Logic in Practice 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, we old four end of the generation of the g</li></ul> | <ul> <li>PHIL 8 — Critical Thinking 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>The effective use of critical thinking in contemporary living, including<br/>recognizing faulty arguments, the usefulness of validity and truth,<br/>identifying and avoiding common fallacies in thinking.</li> <li>PHIL 9 — Critical Thinking and Logical Writing 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Prerequisite: ENGL 1A</li> <li>The function and use of formal and informal logic, argument, critical<br/>evaluation, and language in written composition.</li> <li>PHIL 12 — Ethics 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Prerequisite: Eligibility for ENGL 1A</li> </ul> |
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| increase of fiber and nutrients in foods. The course includes laboratory<br>experience in preparation of health promoting foods and meals.  INF 82 — Vegetarian Cuisine 1 Unit<br>Not Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>12 hours lecture<br>18 hours lab<br>Principles and techniques of vegetarian food preparation and<br>investigation of issues related to vegetarian eating practices. Includes<br>laboratory experience in preparation of vegetarian foods and meals.  OCEANOGRAPHY OCEA 10 — Introduction to Oceanography 3 Units<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                          | avoid faulty conclusions in reasoning, understand levels of meaning and<br>kinds of arguments, avoid verbal pitfalls, understand the steps of<br>scientific methods and identify value assumptions.<br><b>PHIL 3H — Logic in Practice - Honors</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>The analysis of language as an instrument of sound thinking in morals,<br>politics and everyday life. Assists students to analyze an argument,<br>avoid faulty conclusions in reasoning, understand levels of meaning and<br>kinds of arguments, avoid verbal pitfalls, understand the steps of<br>scientific methods and identify value assumptions. An honors course<br>designed to provide an enriched experience. Students may not receive<br>credit for both PHIL 3 and PHIL 3H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A critical analysis of empirical and normative factors involved in choice,<br>including an examination of major ethical theories and their application<br>to the study of moral problems.<br>PHIL 12H — Ethics - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Critical analysis of empirical and normative factors involved in choice,<br>including an examination of major ethical theories and their application<br>to the study of moral problems. An honors course designed to provide<br>an enriched experience. Students may not receive credit for both PHIL<br>12 and PHIL 12H.<br>PHIL 15 — Major World Religions 3 Units                                                       |
| 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. <b>OCEA 10H</b> — Introduction to Oceanography - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> 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. | <ul> <li>PHIL 5 — Introduction to Philosophy 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Prerequisite: Eligibility for ENGL 68<br/>An exploration of basic issues in ethics, social philosophy, metaphysics,<br/>theories of knowledge and contemporary philosophies of life.</li> <li>PHIL 5H — Introduction to Philosophy - Honors 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Prerequisite: Acceptance into the Honors Program<br/>An exploration of basic issues in ethics, social philosophy, metaphysics,<br/>theories of knowledge and contemporary philosophies of life. An honors<br/>course designed to provide an enriched experience. Students may not<br/>receive credit for both PHIL 5 and PHIL 5H.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Examines the salient features of the world's major and enduring<br>religions. Religion is approached as the expression of one's ultimate<br>concern as a means of understanding the historic and ideological<br>foundations and aspirations of the peoples of the world. The following<br>(or more) religions are presented and examined both appreciatively and<br>critically: Hinduism, Buddhism, Taoism, Confucianism, Islam, Judaism,<br>and Christianity.                                                                                                                                                                                                           |

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| <ul> <li>PHIL 15H — Major World Religions - Honors 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Prerequisite: Acceptance into the Honors Program</li> <li>Examines the salient features of the world's major and enduring<br/>religions. Religion is approached as the expression of one's ultimate<br/>concern as a means of understanding the historic and ideological<br/>foundations and aspirations of the peoples of the world. The following<br/>religions are presented and examined both appreciatively and critically:<br/>Hinduism, Buddhism, Taoism, Confucianism, Shinto, Judaism,<br/>Christianity, Islam. An honors course designed to provide an enriched<br/>experience. Students may not receive credit for both PHIL 15 and PHIL<br/>15H.</li> <li>PHIL 20A — History of Western Philosophy<br/>Prerequisite: &gt;Eligibility for ENGL 1A<br/>Major western philosophers and philosophical ideas from pre-Socratic<br/>times to medieval times.</li> <li>PHIL 20AH — History of Western Philosophy - Honors 3 Units</li> </ul> | PHOTOGRAPHY         PHOT 1 — Laboratory Studies: Black and White Photography       1 Unit Degree Applicable         (May be taken four times for credit)       Degree Applicable         (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 4 — Digital Cameras and Composition       1 Unit 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 | <ul> <li>PHOT 14 — Commercial Lighting 3 Units<br/>Degree Applicable, CSU</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: PHOT 10</li> <li>Use of studio equipment, and studio and location lighting techniques<br/>used in all aspects of commercial photographic applications. Students<br/>must furnish adjustable Single Lens Reflex camera.</li> <li>PHOT 15 — History of Photography 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Survey of the history of photography from circa 1839 to the present. An<br/>introduction to concepts of photographic representation and their<br/>impact on society.</li> <li>PHOT 16 — Fashion Photography 3 Units<br/>Degree Applicable</li> <li>6 hours lecture</li> <li>54 hours lecture</li> <li>54 hours lecture</li> <li>9 HOT 16 — Fashion Photography 3 Units<br/>Degree Applicable</li> <li>9 hours lecture</li> <li>9 hours lecture</li></ul> |
| Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Acceptance into the Honors Program<br>Major western philosophers and philosophical ideas from pre-Socratic to<br>medieval times. An honors course is desgined to provide an enriched<br>experience. Students may not receive credit for both PHIL 20A and PHIL<br>20AH.<br>PHIL 20B — History of Western Philosophy 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Degree Applicable, CSU, UC<br>36 hours lecture<br>54 hours lab<br>The basic mechanical, optical, and chemical principles of photography,<br>including digital image systems. Laboratory experience involves<br>problems related to camera and image output techniques.<br>■ PHOT 11 — Advanced Professional Photography 4 Units<br>Degree Applicable<br>36 hours lecture<br>108 hours lab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Iocation production in both black and white and color are emphasized.<br>Aspects of business operation and working with clients are explored.<br>PHOT 17 — Photocommunication 3 Units<br>Degree Applicable<br>36 hours lecture<br>72 hours lab<br>Prerequisite: PHOT 10<br>Explores the application of the photosensitive materials, photochemicals<br>and optics. The emphasis will be on the aesthetic and expressive uses to<br>which these materials lend themselves. The student is expected to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Major western philosophy and philosophical ideas from the Renaissance<br>to the present.<br><b>PHIL 20BH</b> — <b>History of Western Philosophy - Honors 3 Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Major western philosophy and philosophical ideas from the Renaissance<br>to the present. An honors course designed to provide an enriched<br>experience. Students may not receive credit for both PHIL 20B and PHIL<br>20BH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Prerequisite: PHOT 10         Professional photographic techniques. Includes studio and field assignments related to problems encountered while professionally photographing people and products. Topics include medium and large format film and digital cameras, computer basics for professional photographers and studio lighting. Students must furnish a digital single lens reflex (DSLR) camera. Field trips may be required.         ■ PHOT 12 — Photographic Alternatives       3 Units Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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) 6 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 20BH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 36 hours lecture<br>54 hours lab<br><i>Prerequisite: PHOT 10</i><br>Explores the use of continuous tone and alternative black and white<br>techniques and processes. Emphasis will be on solving photographic<br>problems through the use of current techniques such as montage<br>printing, Polaroid and xerographic applications, hand coloring, and<br>emulsion coating (cyanotype, Luminous/Liquid Light) as well as other<br>special techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ■ PHOT 20 — Color Photography 3 Units<br>Degree Applicable<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: PHOT 10</i><br>An introduction to current methods of producing color media, color<br>negatives, positive transparencies, and outputting color prints.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| <ul> <li>PHOT 21 — Exploring Color Photography</li> <li>3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: PHOT 20</li> <li>Explores the application of color processes as they relate to commercial<br/>and artistic styles. Emphasis is on innovative use of color and<br/>contemporary techniques. Includes media manipulation and unique<br/>processing, coloring negatives, &amp;x10 Polaroid, digital imagery, specialized<br/>lighting, set building, and quality control.</li> <li>PHOT 25 — Digital Capture Workflow</li> <li>3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: PHOT 11</li> <li>Advanced application of digital capture and workflow using DSLR<br/>medium and large format digital camera systems and software to<br/>produce high-quality digital files as a photographer or as a digital<br/>photographic technician. Field trips may be required.</li> <li>PHOT 28 — Photography Portfolio Development</li> <li>3 Units<br/>Degree Applicable</li> <li>36 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: Minimum 12 units of photography at Mt. San Antonio College<br/>or equivalent preparation</li> <li>Development of a photography portfolio for job application or gallery<br/>exhibition purposes.</li> <li>PHOT 29 — Studio Business Practices for<br/>Commercial Artists</li> <li>Degree Applicable</li> <li>54 hours lecture</li> <li>54 ho</li></ul> | May be taken four times for credit)       Degree Applicable         (May be taken for Pass/No Pass only)       75 to 225 hours lab         Pre       Provides students with on-the-job experience in professional photography and related areas in an approved worksite to strengthen and broaden skills in the workplace. A minimum of 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. <b>PHOT 99 — Special Projects in Photography 2 Units</b> 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. <b>PHYSICAL EDUCATION: ADAPTIVE PHYSICAL EDUCATION: ADAPTIVE Degree</b> Applicable, CSU, UC (May be taken four | <ul> <li>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.</li> <li>PE-L 14 — Activity Programs for the Physically 5 to 1 Unit Limited Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times</li></ul> |
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| Application of photographic principles to commercial and illustrative<br>photography. Practical experience in studio product photography,<br>illustration, fashion, and architectural photography. Areas of promotion<br>and pricing will be covered. Both black-and-white and color media will<br>be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 54 hours activity<br>Designed to assist students with a disability or limitation to develop or<br>improve swimming skills. Appropriate for swimmers and nonswimmers.<br>Students who repeat this course will improve their skills through further<br>instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-A 88 — Swimming - Intermediate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| <ul> <li>FFA 8C — Swimming - Advanced by the speer Applicable, SU, UC (Way be taken for urines for credit) (Way be tak</li></ul> |
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| and practice. related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice. the sport of soccer. Students who repeat this course will improve skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| PE-X 25 — Soccer - Women         Sto 3.5 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     Intended for Women's Intercollegiate Soccer Team candidates to     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         St to 3.5 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     Intended for Women's Softball Team candidates to provide 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         St to 3.5 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     Intended for the Men's Intercollegiate Swim Team candidates to provide     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         St to 3.5 Units         Degree Applicable, CSU, UC     (May be taken four times for credit)     (May be taken four times for cred | <ul> <li>PE-X 34 — Tennis - Women .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women's Intercollegiate Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice.</li> <li>PE-X 38 — Track and Field - Men .5 to 3.5 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 Intended for Men's Intercollegiate Track and Field team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through further instruction and practice.</li> <li>PE-X 42 — Track and Field - Women .5 to 3.5 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 Intended for Women's Intercollegiate Track and Field team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through further instruction and practice.</li> <li>PE-X 42 — Track and Field - Women .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women's Intercollegiate Track and Field Team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through further instruction and practice.</li> <li>PE-X 44 — Volleyball - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Men's Intercollegiate Volleyball Team candidates to provide instruction in the components o</li></ul> | <ul> <li>PE-X 48 — Water Polo - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Men's Intercollegiate Water Polo Team candidates to provide instruction in the components of training and conditioning related to the sport of water polo. Students who repeat this course will improve skills through further instruction and practice.</li> <li>PE-X 49 — Water Polo - Women .5 to 3.5 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 Intended for Women's Intercollegiate Water Polo Team candidates to provide instruction in the components of training and conditioning related to the sport of water polo. Students who repeat course will improve skills through further instruction and practice.</li> <li>PE-X 50 — Wrestling - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit)</li></ul> |
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| improve skills through further instruction and practice.   PE-X 32 — Tennis - Men Sto 3.5 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 Intended for Men's Intercollegiate Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ■ PE-X 46 — Volleyball - Women .5 to 3.5 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 180 hours activity<br>Intended for Women's Intercollegiate Volleyball Team candidates to<br>provide instruction in the components of training and conditioning<br>related to the sport of volleyball. Students who repeat this course will<br>improve skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | practice.<br><b>PF-X 88 — Pre-Season Athletics</b> .5 to 3.5 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 180 hours activity<br>Pre-season intercollegiate athletics. Enrollment is limited to athletic<br>team candidates and includes, sport specific aerobic and anaerobic<br>conditioning, drill technique, strength conditioning, speed development<br>and game play. Students who repeat this course will improve skills and<br>fitness through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| PE-X 99 — Off-Season Athletics .5 to 3.5 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 180 hours activity<br>Designed for athletic team candidates in an off-season program.<br>Includes sport-specific training with the purpose of developing areas of<br>individual weaknesses. Students who repeat this course will improve<br>skills through further instruction and practice.<br>PHYSICAL EDUCATION: FITNESS | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Develops components of physical fitness. Students analyze individual<br>fitness level and participate in activities designed to improve overall<br>fitness. Students who repeat this course will improve skills through<br>further instruction and practice.<br><b>PE-F 6C — Physical Fitness - Advanced</b> .5 to 1 Unit<br>Degree Applicable, CSU, UC | ■ PE-F 13 — Exercise Dynamics 2 Units<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>108 hours activity<br>Increased frequency and body conditioning with increased frequency<br>and duration of circuit training and aerobic activity; continued overview<br>of health concepts; heightened emphasis on nutrition, weight<br>management, stress reduction and the benefit of exercise on overall<br>health. Students who repeat this course will improve skills through<br>further instruction and practice. |
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| ■ PE-F 2A — Body Building - Beginning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Determines advanced components of physical fitness. Students integrate<br>individual fitness level and participate in activities designed to improve<br>overall fitness. Students who repeat this course will improve skills<br>through further instruction and practice.<br><b>PE-F 9 — Conditioning for Sports</b> .5 to 1 Unit                                                     | ■ PE-F 17 — Fitness Walking .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Fitness walking, a low-impact aerobic activity, as part of an overall<br>wellness program. The class walks on courses around Mt. San Antonio<br>College and the surrounding community. Includes nutrition, personal<br>skill development, weight management, cardiovascular endurance, stress                                                                                              |
| ■ PE-F 2B — Body Building - Advanced .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Advanced strength development and physical conditioning. Students<br>who repeat this course will improve skills through further instruction<br>and practice.                                                                                                                                        | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>A conditioning course for students and athletes to develop muscular<br>strength and endurance, flexibility, core training skills and respiratory<br>fitness. Students who repeat this course will improve skills through<br>further instruction and practice.                                                                                           | management, and goal setting. Students who repeat this course will<br>improve skills through further instruction and practice.<br><b>PE-F 18 — Fitness Fundamentals</b><br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>108 hours activity                                                                                                                                                                                                                                                                     |
| ■ PE-F 4 — Cardiovascular Conditioning .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Designed to improve fitness levels through cardiovascular activities.<br>Students who repeat this course will improve skills through further<br>instruction and practice.                                                                                                                         | PE-F 10 — Weight Training Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Provides the foundations in specific areas of fitness to set-up, maintain<br>and organize a personalized fitness program. Presents in-depth<br>coverage of each area of fitness in managing and promoting an<br>individualized fitness regime. Students who repeat this course will<br>improve skills through further instruction and practice.<br><b>PE-F 19 — Strength Training</b><br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)                                                                                                                                          |
| ■ PE-F 6A — Physical Fitness - Beginning .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Presents beginning components of physical fitness. Students identify<br>individual fitness level and participate in activities designed to improve<br>overall fitness. Students who repeat this course will improve skills<br>through further instruction and practice.                         | <ul> <li><b>PE-F 12</b> — 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.</li> </ul>        | (May be taken for option of letter grade or Pass/No Pass)<br>108 hours activity<br>Designed for students concentrating on strength development through<br>various types of exercise. Students who repeat this course will improve<br>skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                |

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| <ul> <li>PE-F 22 — Total Fitness 2 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>108 hours activity</li> <li>Fitness training with increased frequency and duration. Includes<br/>nutrition, exercise concepts, stress management, cardiovascular<br/>conditioning, muscle strength and flexibility training. Students who<br/>repeat this course will improve skills through further instruction and<br/>practice.</li> <li>PE-F 25 — Core Performance and Foundation Movement 2 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>108 hours lab</li> <li>Body core training and foundation movement for students interested in<br/>improving their fitness level. Students who repeat this class will</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul> <li>PE-F 50 — Physical Skills Preparation for Administration 2 Units of Justice and Fire Technology</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PE-F 59 — Firefighter Physical Ability Test     Init     Ininit     Init     Init     Init     Init     Ininit     Init |
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| <ul> <li>improving their ritriess fevel. Students with repeat this class with improve with continued practice and instruction.</li> <li>PE-F 34 — Cardiorespiratory Training .5 to 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity</li> <li>Individualized exercise programs designed to improve cardiorespiratory performance. Students who repeat this course will improve skills through further instruction and practice.</li> <li>PE-F 36 — Circuit Training .5 to 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>36 to 108 hours activity</li> <li>Muscular strength and endurance exercise on circuit training equipment. Students who repeat this course will improve skills through further instruction and practice.</li> </ul> | A training program directed toward physical agility testing<br>approximating the testing process required by various law enforcement<br>and fire agencies. Students who repeat this course will improve skills<br>through further instruction and practice.<br><b>PE-F 52</b> — <b>Fitness and Conditioning for Administration</b> 1 <b>Unit</b><br>of Justice, Fire Technology, and Forestry<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>71 hours activity<br>A conditioning program to maintain strength, agility, cardiovascular<br>fitness and flexibility necessary to perform the tasks required of<br>personnel in fields of law enforcement, fire science and forestry.<br>Students who repeat this course will improve skills through further<br>instruction and practice.<br><b>PE-F 53</b> — <b>Physical Training for the Basic Fire 2.5 Units</b><br><b>Academy</b><br>Degree Applicable, CSU | individual course unit values.<br><i>Clusters:</i><br>PE-14A, PE-14B, PE-14C<br>PE-18A, PE-18B, PE-18C<br>PE-127A, PE-127B<br>PE-130A, PE-130B<br>PE-131A, PE-131B<br>PE-137A, PE-137B, PE-137C<br><b>PE-14A — Badminton - Beginning</b> .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Beginning badminton fundamentals and techniques, including singles<br>and doubles play. Students who repeat this course will improve their<br>skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ■ PE-F 38 — Aerobics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>133 hours activity<br>Prepares the Basic Fire Academy student for the physical demands of<br>the fire service. Through a supervised individualized training program,<br>the student acquires cardiovascular endurance, flexibility and strength.<br>Students who repeat this course will improve skills through further<br>instruction and practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ■ PE-I 4B — Badminton - Intermediate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| 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 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 Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four option of letter grade or Pass/No Pass) 36 to 54 hours activity Instruction and practice.  PE-I 18B — Golf - Intermediate .5 to 1 Unit 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 Instruction and practice for the proficient golfer (Sub 15 Handicap).  PE-I 25 — Mixed Martial Arts .5 to 1 Unit May be taken four times for credit) (May be ta | <ul> <li>PE-1 27A — Jeet Kune Do - Beginning</li></ul> | PF-131A — 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.         PFE-131B — Jiujitsu - Intermediate       _5 to 1 Unit         Degree Applicable, CSU, UC       (May be taken four times for credit)         (May be taken four times for credit)       (May be taken four 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 gi uniform.         PFE-133 — Kickboxing       _5 to 1 Unit         Degree Applicable, CSU, UC       (May be taken foor times for credit)         (May be taken foor times for credit)       May be taken foor option of letter grade or Pass/No Pass)         36 to 54 hours activity       Presents the martial sport of kickboxing. Includes techniques for followas.         Studefense, cardiowascular endurance, strategy and trainin |
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| PE-I 37A — Tai Chi Chuan - Beginning .5 to 1 Unit                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                      | PE-S 2 — Basketball .5 to 1 Unit                                                                                                                                                                                                                                                                                                                                                                      |
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| Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Fundamentals of tai chi chuan as a martial art exercise for health and<br>fitness, meditation, relaxation and self defense. Basic therapeutic<br>exercises in the tai chi chuan format will be presented. Students who<br>repeat this course will improve skills through further instruction and                        | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Basic instruction, conditioning and training for the various track and<br>field events. Students who repeat this course will improve skills through<br>further instruction and practice.                                               | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Basic skills, fundamentals, rules and strategies for team play in<br>basketball. Students who repeat this course will improve skills through<br>further instruction and practice.                                                       |
| practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PE-I 48 — Wrestling .5 to 1 Unit<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                       | PE-S 10 — Soccer .5 to 1 Unit<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                           |
| ■ PE-I 37B — Tai Chi Chuan - Intermediate .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity                                                                                                                                                                                                                                                                  | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Wrestling skills, fundamentals and match competition. Students who<br>repeat this course will improve skills through further instruction and                                                                                                                         | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Soccer skills, fundamentals and game play. Students who repeat this<br>course will improve skills through further instruction and practice.                                                                                                                           |
| Intermediate tai chi chuan fundamentals and principles. Includes<br>instruction in a traditional long form. Students who repeat this course<br>will improve skills through further instruction and practice.                                                                                                                                                                                                                                                                          | practice.  PE-I 50A — Yoga .5 to 1 Unit                                                                                                                                                                                                                                                                                                                                                              | ■ PE-S 12 — Baseball .5 to 1 Unit<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                       |
| <ul> <li>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.</li> </ul>                                                                                                                                                                                       | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Yoga instruction with emphasis on yoga postures, breathing techniques,<br>relaxation strategies and philosophy. Students who repeat this course<br>will improve their skills through further instruction and practice.                 | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Basic skills, rules and strategies for team play in baseball. Students who<br>repeat this course will improve skills through further instruction and<br>practice.                                                                                                     |
| Emphasis will be on the sword form. Students who repeat this course will improve skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                                     | PE-I 51 — Iyengar Yoga     Sto 1 Unit     Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                 | PE-S 13 — Football .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)                                                                                                                                                                                                                                                                                                 |
| ■ PE-I 40A — Tennis - Beginning .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Parainpiane teaple fundamentals and techniques. Students who senset                                                                                                                                                                                                     | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Fundamentals of Iyengar yoga. Basic postures, alignments, strategy,<br>history and philosophy. Students who repeat this course will improve                                                                                                                          | (May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Basic skills, rules and strategies for team play in football. Students who<br>repeat this course will improve skills through further instruction and<br>practice.                                                                                                                                             |
| Beginning tennis fundamentals and techniques. Students who repeat this course will improve skills through further instruction and practice.                                                                                                                                                                                                                                                                                                                                           | their skills through further instruction and practice.         ■ PE-I 52 — Individual Sports         .5 to 1 Unit                                                                                                                                                                                                                                                                                    | ■ PE-S 16 — Softball .5 to 1 Unit<br>Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                       |
| ■ PE-I 40B — Tennis - Intermediate .5 to 1 Unit<br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Intermediate tennis techniques and strategies for the individual who<br>has previous experience and instruction in tennis. Students who repeat<br>this course will improve skills through further instruction and practice.                                                                                  | Degree Applicable, CSU, UC<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Individual sports technique enhancement. Includes cardiorespiratory,<br>flexibility, muscle strength and endurance training modes. Students who<br>repeat this course will improve skills through further instruction and<br>practice. | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Basic skills, rules and strategies for team play in the sport of slowpitch<br>softball. Students who repeat this course will improve skills through<br>further instruction and practice.<br><b>PE-S 18 — Indoor Soccer .5 to 1 Unit</b><br>Degree Applicable, CSU, UC |
| <ul> <li>PE-I 40C — Tennis - Advanced .5 to 1 Unit<br/>Degree Applicable, CSU, UC</li> <li>(May be taken four times for credit)</li> <li>(May be taken for option of letter grade or Pass/No Pass)</li> <li>36 to 54 hours activity</li> <li>Advanced tennis techniques and strategies for the experienced player.</li> <li>Students who repeat this course will improve skills through further instruction and practice.</li> <li>2011-12 Mt. San Antonio College Catalog</li> </ul> | 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                                                                                                   | (May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 to 54 hours activity<br>Indoor soccer skills, fundamentals and game play. Students who repeat<br>this course will improve skills through further instruction and practice.                                                                                                                    |

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| <ul> <li>PE-S 19 — Team Sports .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four 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.</li> <li>PE-S 24A — Volleyball - Beginning .5 to 1 Unit Degree Applicable, CSU, UC (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.</li> <li>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</li> <li>Basic techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice.</li> <li>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</li> <li>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.</li> <li>PE-S 24C — Volleyball - Advanced .5 to 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity</li> <li>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.</li> <li>PE-S 24C — Volleyball - Advanced .5 to 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity</li> <li>Degree Applicable, C</li></ul> | Degree Applicable, CSU, UC<br>36 hours lecture<br>Instruction in the theory and technique of various selected sports:<br>Basketball, Baseball, Cross Country, Football, Golf, Soccer, Softball,<br>Swimming, Tennis, Track and Field, Volleyball, Water Polo and/or<br>Wrestling.<br><b>PE 13 — Sports Officiating</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Introduction to rules, regulations and career opportunities of various<br>team and individual sports.<br><b>PE 15 — Administration of Fitness Programs</b><br><b>2 Units</b><br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>Provides leadership training and administrative skills related to fitness<br>specialists, personal trainers and physical educators. Students will<br>explore curriculum topics and practical skills related to careers in fitness<br>and physical education.<br><b>B PE 17 — Introduction to Physical Education</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Introduction and orientation to physical education as a profession and<br>academic discipline. Explores sub-disciplines, opportunities in the field,<br>philosophy, scientific basis and analysis. | <ul> <li>PE 24 — Kinesiology 2 Unit:<br/>Degree Applicable, CSU<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>36 hours lecture<br/>The study of movement as it relates to exercise and the<br/>interrelationships of body segments involved in human movement<br/>activity, actions of joints, nerves and muscle exercise.</li> <li>PE 33 — Fitness Assessment and Healthy Lifestyles .5 Unit<br/>Degree Applicable<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>9 hours lecture<br/>An integrated approach to healthy lifestyles. Includes pre and post<br/>fitness assessments, basic nutrition analysis, lifestyle behaviors and<br/>stress management. Interpretation of results includes goal-setting<br/>principles and development of basic exercise program.</li> <li>PE 34 — Fitness for Living<br/>Survey and analysis of the components of fitness. Effects of fitness on<br/>optimal health, concepts of human movement, fitness program design,<br/>stress management, nutrition and weight control.</li> <li>PE 38 — Physiology of Exercise for Fitness<br/>Theory of basic physiological concepts as they pertain to exercise<br/>training and the prescription of individual fitness programs.</li> <li>PE 39 — Techniques of Fitness Testing<br/>2 Unit:<br/>Degree Applicable, CSU<br/>(May be taken for option of letter grade or Pass/No Pass)<br/>36 hours lecture<br/>Theory and technique of performing fitness testing, assessment,<br/>evaluation, and recommendation. Includes related laboratory experience<br/>and practical applications.</li> <li>PE 40 — Techniques of Teaching<br/>Cardiovascular Exercise<br/>Degree Applicable</li> <li>May be taken for option of letter grade or Pass/No Pass)<br/>36 hours lecture</li> <li>PE 40 — Techniques of Teaching<br/>Cardiovascular Exercise<br/>Degree Applicable</li> <li>May be taken for option of letter grade or Pass/No Pass)<br/>36 hours lecture</li> </ul> |
| PHYSICAL EDUCATION: THEORY  PE 3 — First Aid and CPR 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lecture<br>Introduction and orientation to physical education as a profession and<br>academic discipline. Explores sub-disciplines, opportunities in the field,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | evaluation, and recommendation. Includes related laboratory experience<br>and practical applications.<br>PE 40 — Techniques of Teaching<br>Cardiovascular Exercise<br>Degree Applicabl<br>(May be taken for option of letter grade or Pass/No Pass)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| <ul> <li>PE 41 — Techniques of Teaching Weight Training Degree Applicable Degree Applicable (SU). Way be taken for option of letter grade or Pass/No Pass)</li> <li>Overview of the principles and techniques of teaching weight Training and machine quipment, safety factors, including contraindications for exercise.</li> <li>PE 44 — Theory of Coaching 3 Units Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>A hours letture Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>A hours letture Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>A hours letture Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>A hours letture Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>A hours letture Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>PE 43 — Lifeguad Training D SUnits Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>PE 44 — Theory of Coaching D SUnits Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>PE 45 — Lifeguad Training D SUnits Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>PF 50 — ML SC Tine Kachdem Stropping American Red Cross requirements for Lifeguard Training D Sunits Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>PF 50 — Lifeguad Training D SUNITS Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>PF 50 — Lifeguad Training D Sunits Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass)</li> <li>PF 50 — Lifeguad Training D Sunits Degree Applicable (SU). Use taken for option of letter grade or Pass/No Pass only)</li> <li>Phours Latter Provide Athiet trainer Aides and physical duckits the life trainer Aides and physi</li></ul> |
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| by the Fire Technology Office prior to registration.<br>PE 81 — Work Experience for Coaching 2 Units Degree Applicable (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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| PHYS 2BG — General Physics 4 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ■ PHYS 99 — Special Projects in Physics 2 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Degree Applicable, CSU, UC<br>54 hours lecture<br>54 hours lab<br><i>Prerequisite: PHYS 2AG or equivalent</i><br>A continuation of Physics 2AG. Includes electricity and magnetism<br>(including DC and AC circuits,) geometrical and physical optics, relativity,<br>quantum physics, atomic and nuclear physics. Laboratory includes use of<br>computers to analyze data and simulate electric circuits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Degree Applicable, CSU<br>(May be taken four times for credit)<br>36 hours lecture<br><i>Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (may have been taken</i><br><i>previously)</i><br>In order to offer selected students recognition for their academic<br>interests and ability, and the opportunity to explore their disciplines to<br>greater depth, the various departments from time to time offer Special                                                                                       | to Contemporary<br>Degree Applicable, CSU, U<br>54 hours lecture<br><i>Prerequisite: POLI 5</i><br>Major political philosophers and theories from the late nineteenth<br>century to the present. Intended to prepare students majoring in<br>political science for further study in the discipline by providing<br>adequate background preparation in political philosophy.                                                                                                  |
| ■ PHYS 4A — Engineering Physics 5 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>54 hours lab<br><i>Prerequisite: PHYS 2AG</i><br><i>Corequisite: MATH 181 (may have been taken previously)</i><br>Studies linear and rotational motion, forces, work, energy, oscillations,<br>gravitation, properties of solids, and waves. Includes laboratory<br>experience, with significant use of computers for data acquisition and<br>analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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           POLITICAL SCIENCE           Student Science         3 Units           Degree Applicable, CSU, UC           54 hours lecture | <ul> <li>POLI 9 — Introduction to International Relations 3 Unit<br/>Degree Applicable, CSU, U</li> <li>54 hours lecture<br/>Advisory: Eligibility for ENGL 1A</li> <li>Acquaints students with the historical and political background of<br/>international relations. Attention is given to world politics, international<br/>organization and America's place in world affairs.</li> <li>POLI 10 — Environmental Politics 3 Unit<br/>Degree Applicable, CSU, U</li> </ul> |
| <ul> <li>PHYS 4B — Engineering Physics 5 Units<br/>Degree Applicable, CSU, UC</li> <li>72 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: PHYS 4A</li> <li>Corequisite: MATH 280 (may have been taken previously)</li> <li>Heat, kinetic theory of gases, thermodynamics, electromagnetism<br/>(including DC and AC circuits,) and Maxwell's equations. Laboratory<br/>includes significant use of computers for data acquisition, analysis and<br/>simulation.</li> <li>PHYS 4C — Engineering Physics 5 Units<br/>Degree Applicable, CSU, UC</li> <li>72 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: PHYS 4B</li> <li>Fluids, sound, electromagnetic waves, optics, diffraction and interference<br/>of waves, relativity, quantum physics, atomic and nuclear structure,<br/>nuclear reactions and elementary particles. Laboratory includes<br/>significant use of computers for data analysis.</li> </ul> | Principles and problems of government with particular emphasis on<br>national government in the United States. This course satisfies the<br>requirement for a course in the Constitution of the United States and<br>the principles of State and local government as required by Title 5 of<br>the California Administrative Code.                                                                                                                                                                     | 54 hours lecture<br>Prerequisite: POLI 1 or POLI 1H<br>Advisory: Eligibility for ENGL 1A<br>Global environmental problems including an analysis of political<br>theories and comparative policies in the emerging field of<br>environmental politics.                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ■ POLI 1H — Political Science - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Acceptance into the Honors Program<br>Principles and problems of government with particular emphasis on<br>national government in the United States. This course satisfies the<br>requirement for a course in the Constitution of the United States and                                                                                                                              | ■ POLI 25 — Politics of the Mexican American 3 Unit<br>Degree Applicable, CSU, Ut<br>54 hours lecture<br>Advisory: Eligibility for ENGL 68<br>Studies the impact that national, state and local governments have on<br>the nation's largest ethnic minority (the Latino Community). Examines                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | requirement for a course in the Constitution of the United States and<br>the principles of State and local government as required by Title 5 of<br>the California Administrative Code. An honors course designed to<br>provide an enriched experience. Students may not receive credit for<br>both POLI 1 and POLI 1H.                                                                                                                                                                                 | the nation's largest ethnic innorty (the Latino community). Examines<br>the national and state constitutions and the impact they have had on<br>the Hispanic Community as a whole (not just Mexican Americans).<br>Studies American institutions as they pertain to the Chicano Community<br>and examines the Chicano Community's responses to the actions of the<br>dominant political institutions.                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | POL1 2 — Political Science 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: POL1 1 or POL1 1H<br>Advisory: Eligibility for ENGL 1A<br>Comparative study of constitutional principles, governmental<br>institutions, political processes, and ideologies in selected countries.                                                                                                                                                                                               | ■ POLI 30 — California State and Local Government 3 Unit<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Advisory: Eligibility for ENGL 68</i><br>Surveys the forces shaping California government and analyzes the<br>operation of governmental institutions within California and the<br>political and fiscal challenges facing California.                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ■ POLI 5 — Political Theory I - Ancient to Modern 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: POLI 1 or POLI 1H<br>Advisory: Eligibility for ENGL 1A<br>Anient to modern (mid-19th century) theories of political institutions,<br>social change and social dynamics.                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**COURSE DESCRIPTIONS** 

| <ul> <li>POLI 35 — African American Politics 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Advisory: Eligibility for ENGL 68<br/>Examines the methods and strategies employed by African-Americans<br/>in their quest to gain equal access and participation in American<br/>institutions. This course satisfies the requirement for a course in the<br/>Constitution of the United States and the principles of State and local<br/>government as required by Title 5 of the California Administrative Code.</li> <li>PSYCHOLOGY</li> <li>PSYC 1A — Introduction to Psychology 3 Units</li> </ul>                                                                                                                                                                                                                                                                | ■ PSYC 3 — Introduction to Research Methods 4 Units<br>in Psychology<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>54 hours lab<br>Prerequisite: PSYC 1A or PSYC 1AH and PSYC 10 or MATH 110 or MATH<br>110H<br>Advisory: ENGL 1A<br>Research methods in the area of social science, especially in the<br>discipline of psychology. American Psychological Association (APA)<br>publication style taught and used with lab experience. Includes<br>systematic observation, survey development, correlational studies, and<br>design ouncution and analysis of curveriments.                                                                                                                                                                                                      | <ul> <li>PSYC 15 — Introduction to Child Psychology 3 Units<br/>Degree Applicable, CSU<br/>54 hours lecture<br/>Advisory: Eligibility for ENGL 68<br/>Examines the psychology of the child from conception through<br/>adolescence. Emphasis on physical, cognitive, and psychosocial<br/>development as it pertains to the child?s psychological experiences.<br/>Includes psychological disorders and therapies specific to children and<br/>adolescents. This course does not fulfill Title 22 requirement for child<br/>development majors.</li> <li>PSYC 17 — Introduction to Human Services 3 Units<br/>Degree Applicable, CSU</li> </ul>                                                                                                       |
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| Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Develops an understanding of the basic principles of behavior and<br>mental processes. The subject matter and research methods of scientific<br>psychology are presented. Topics include; history, biopsychology,<br>sensation, perception, states of consciousness, learning, memory,<br>forgetting, language, cognition, life-span development, gender, sexuality,                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul> <li>design, execution and analysis of experiments.</li> <li>PSYC 5 — Psychology of Reasoning and Problem Solving 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> <li>The nature of critical thinking; models and strategies; common fallacies<br/>of reasoning; self-regulation in the thinking process; application of<br/>critical thinking to specific areas, such as comparison of cognitive and<br/>information-processing models; more specifically: memory, thinking and</li> </ul>                                                                                                                                                                                                                                                                       | 54 hours lecture<br>Advisory: PSYC 1A or PSYC 1AH or SOC 1 or SOC 1H<br>History, philosophy and development of human services in America.<br>Explores careers in human services, self-exploration in matching<br>personal and professional interests to entry levels of human services<br>employment.<br>PSYC 19 — Abnormal Psychology 3 Units                                                                                                                                                                                                                                                                                                                                                                                                        |
| stress, health, motivation, emotions, social psychology, abnormality,<br>treatment and social and diversity issues.<br><b>PSYC 1AH</b> — Introduction to Psychology - Honors 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br><i>Prerequisite: Acceptance into the Honors Program</i><br>Develops an understanding of the basic principles underlying behavior<br>and cognition. The subject matter and methods of scientific psychology<br>are presented. Topics include scientific methodology, history,<br>biopsychology, sensation, perception, states of consciousness, learning,<br>memory, forgetting, language, cognition, intelligence, life-span<br>development, personality, stress, health, motivation, emotions,<br>psychopathology, psychotherapeutic approaches, and social factors. An<br>honors course designed to provide an enriched experience. Students | <ul> <li>PSYC 10 — Statistics for the Behavioral Sciences 4 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>54 hours lab</li> <li>Prerequisite: PSYC 1A or SOC 1 and eligibility for MATH 110</li> <li>Statistical principles of the behavioral sciences emphasizing research<br/>design, scales of measurement, distributions, graphing, descriptive<br/>statistics, measures of central tendency, measures of variability, z-test,<br/>independent and dependent t-tests, inferential statistics, confidence<br/>intervals, linear correlations and regression, and analysis of variance,<br/>including multivariate factorial designs and chi square analyses.</li> <li>Statistical analyses through the use of computerized statistical packages</li> </ul> | Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: PSYC 1A or PSYC 1AH<br>Application of principles of general psychology to the field of<br>psychopathology. Major classifications of psychiatric disorders, their<br>causes and treatment modalities. Includes theoretical perspectives used<br>in abnormal psychology.<br><b>PSYC 25</b> — <b>The Psychology of Women</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Advisory: PSYC 1A and ENGL 1A (taken prior or concurrently)<br>A bio-cultural analysis of women. Emphasis will be placed on biological,<br>psychological and sociological data related to principles of development,<br>socialization, learning, motivation, emotion and perception. |
| may not receive credit for both PSYC 1A and PSYC 1AH.  PSYC 1B — Biological Psychology 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: PSYC 1A or PSYC 1AH Advisory: Eligibility 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.                                                                                                                                                                                                                                                                                                                                                                                                     | are interpreted through the use of computenzed statistical packages<br>are interpreted through lab experience.<br><b>PSYC 14 — Developmental Psychology</b><br>Segree Applicable, CSU, UC<br>54 hours lecture<br><i>Advisory: Eligibility for ENGL 1A</i><br>Examines the psychological principles of human development across the<br>lifespan, from birth to death. This course does not fulfill the Title 22<br>requirements for Child Development majors.                                                                                                                                                                                                                                                                                                                            | PSYC 26 — Psychology of Sexuality 3 Units<br>Degree Applicable, CSU, UC<br>54 hours lecture<br>Prerequisite: Eligibility for ENGL 68<br>Explores the factors involved in establishing and maintaining intimate<br>sexual relationships. The focus of the course is on the findings of social<br>psychologists concerning sexuality and love relationships in our culture.                                                                                                                                                                                                                                                                                                                                                                             |

**COURSE DESCRIPTIONS** 

| ■ PSYC 33 — Psychology for Effective Living 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br>Emphasis on comprehension and application of psychological principles<br>to interpersonal relationships, personal growth, sexuality, vocation,<br>marriage, parenting, aging, and other circumstances encountered in the<br>life cycle. Considers personality development and psychological<br>disorders as well as therapeutic approaches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ■ R-TV 02A — On-Air Personality 3 Units<br>Development-Spanish Market<br>54 hours lecture<br><i>Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)</i><br>Covers developing a broadcast voice, style and understanding of the<br>business for all areas of Spanish-language broadcasting, including disc<br>jockey, newscaster and voice over artist. Students will also develop an<br>understanding of the workings of voice and diction as they pertain to | ■ R-TV 06 — Broadcast Traffic Reporting 1.5 Units<br>Degree Applicable<br>27 hours lecture<br><i>Corequisite: R-TV 01 (may have been taken previously)</i><br>History and development of techniques involved in radio and television<br>traffic reporting through lecture and hands-on practice. Interpretation<br>and reading of police codes as they relate to traffic, accidents, and<br>emergency situations including broadcast rules and liabilities as they<br>apply to traffic reporting. Emphasis on both production and delivery of |
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| ■ PSYC 99 — Special Projects in Psychology 2 Units<br>Degree Applicable, CSU<br>(May be taken four times for credit)<br>36 hours lecture<br>To offer selected students recognition for their academic interest and<br>ability and the opportunity to explore their disciplines to greater depth,<br>the various departments offer Special Project courses. The content of<br>each course and the methods of study vary from semester to semester<br>and depend on the particular project under consideration. Students                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | broadcasting and learn to evaluate the effectiveness of voice work done<br>by others. Emphasis will also be placed on developing the content of<br>on-air shows suitable to the Spanish-language market. Students will<br>review the basics of the production studio and its components. The<br>course is taught in English.<br><b>R-TV 03 — Sportscasting and Reporting</b><br>27 hours lecture<br><b>1.5 Units</b><br>Degree Applicable                                    | anchored and airborne reports. <b>R-TV 07A — Beginning Commercial Voice-Overs 3 Units</b> Degree Applicable  54 hours lecture <i>Advisory: R-TV 01</i> 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.                                                                                                                                                                            |
| repeating this course will make individual contracts of a more advanced<br>nature with the instructor to ensure that proficiencies are enhanced.<br><b>RADIO - TELEVISION</b><br><b>R-TV 01 — Introduction to Broadcasting</b><br><b>J Units</b><br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: Eligibility for ENGL 68</i><br>Survey course of the film and electronic media industries, concentrating<br>on the United States. This includes cultural, historical, social, legal and<br>economic issues in motion pictures, radio and television broadcasting,<br>cable, satellite, internet and related technologies.<br><b>R-TV 02 — On-Air Personality Development</b><br>Survey Course of the industry including disc jockey, newscaster and voice<br><i>Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)</i><br>Developing a broadcast voice, style and understanding of the business<br>for all areas of the industry, including disc jockey, newscaster and voice<br>over artist. Students will also develop an understanding of the workings<br>of voice and diction as they pertain to broadcasting and learn to<br>evaluate the effectiveness of voice work done by others. Emphasis will<br>also be placed on developing the content of on-air shows. Students will<br>review the basics of the production studio and its components. | play for radio and television. Students will learn the legalities and ethics<br>of covering sports, and how to work with professional sports teams and<br>equipment technicians. Practical experience will be provided through<br>coverage of Mt. SAC's athletic teams. Students who repeat this course<br>will improve skills through further instruction and practice.                                                                                                     | <b>R-TV 07B</b> — Advanced Commercial Voice-Overs 3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: R-TV 07A</i><br>Instruction in advanced techniques used in the art of voicing for radio<br>and TV commercials, animation and narration. Further development of<br>audition and recording corcian skills                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Degree Applicable         54 hours lecture         Corequisite: R-TV 01, R-TV 05, and R-TV 11A (May have been taken previously.)         Techniques used to research and cover a variety of 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. <b>III</b> R-TV 05 — Radio-TV Newswriting       3 Units                   | audition and recording session skills. <b>R-TV 09 — Broadcast Sales and Promotion 3 Units</b> Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 (may have been taken previously)</i> Strategies and legalities of advertising time sales for radio and television including Federal Communications Commission (FCC) requirements, demographic targeting, marketing strategies, and working with agencies. Includes creation of contests and promotional campaigns.                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Degree Applicable<br>54 hours lecture<br>Writing, editing and reporting radio and TV news, utilizing the<br>Associated Press Wire Service, AP Newsboss software. Students will<br>rewrite news wire copy as well as create stories from interviews and<br>from covering news events, including the incorporation and selection of<br>sound bites from actualities. Emphasis will be on factual and concise<br>content and the ability to work under deadline.                | <b>R-TV 10 — Radio Management and Programming</b><br>Junits<br>Degree Applicable<br>54 hours lecture<br><i>Corequisite: R-TV 01 (may have been taken previously)</i><br>Overview of various techniques of programming a radio station,<br>including various formats of music, news, talk and sports. Role of<br>management at a station including budgeting, unions, ratings and<br>Federal Communications Commission (FCC) responsibilities.                                                                                                 |

| R-TV 11A — Beginning Radio Production     3 Units     Degree Applicable, CSU     54 hours lecture     Corequisite: R-TV 01 (may have been taken previously)     Operation of standard radio production equipment for both tape-based                                                                                                                                              | Degree Applicable<br>54 hours lecture<br><i>Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)</i><br>Covers all aspects of Internet broadcasting and podcasting including                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ■ R-TV 22 — Editing for Film and Television 3 Units<br>Degree Applicable<br>54 hours lecture<br>Aesthetics and use of non-linear editing software for film and<br>television.                                                                                                                                                                                                                     |
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| and digital production utilizing ProTools technology. Production skills concentrate on the use of voice, music and sound effects as applied to a variety of broadcasting elements.                                                                                                                                                                                                | programming, announcing, promotions, and legal and copyright issues<br>through the use of an actual Internet radio station.  R-TV 18 — Writing for Television and Film 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>R-TV 23 — Reality Show Production 3 Units</b> Degree Applicable         36 hours lecture                                                                                                                                                                                                                                                                                                       |
| ■ R-TV 11B — Advanced Radio Production 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: R-TV 11A</i><br>Techniques in non-linear recording, editing and mixing using Pro Tools<br>technology as these skills apply to a variety of applications in the<br>broadcasting industry. Develop mastery of the concepts and skills                              | Example 2       Source         State       Degree Applicable, CSU         State       State         State       State | 54 hours lab<br><i>Prerequisite: R-TV 19A</i><br>Types and production of Reality Show television programs. Authoring<br>and pitching of reality show concepts. Instruction in specific equipment<br>skills in lighting, wireless multicamera shooting, editing and related<br>skills. Includes production of a reality show.                                                                      |
| required to work in a professional radio studio environment.  R-TV 12 — Commercial Copywriting 3 Units Degree Applicable 54 hours lecture Advisory: R-TV 01 Covers the creation and production of radio and television commercials. Includes using demographic research to target specific audiences, truth in advertising, slogan and campaign development, character creation,  | Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ■ R-TV 26 — Current Issues in Entertainment Law 3 Units<br>Degree Applicable<br>54 hours lecture<br><i>Advisory: R-TV 01 or PLGL 30</i><br>Overview of the major legal and FCC regulatory issues facing<br>broadcasting, cable and developing media. Also covers the growing<br>importance of intellectual property law as it applies to digital media<br>and the Internet.                       |
| commercial formats, and the use of visual and audio appeals. <b>R-TV 14 — Media Aesthetics 3 Units</b> Degree Applicable, CSU 54 hours lecture <i>Prerequisite: ENGL 67</i> Media aesthetics for television and film presentation. Stresses critical,                                                                                                                             | R-TV 19B — Advanced Video Production 3 Units     Degree Applicable, CSU     (May be taken for option of letter grade or Pass/No Pass)     36 hours lecture     54 hours lab     Prerequisite: R-TV 18 and R-TV 19A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ■ R-TV 30 — Introduction to Careers in Entertainment 2 Units<br>Degree Applicable<br>36 hours lecture<br>An overview of broadcasting as a potential career. Examines the skills<br>and training needed to work in radio, television and film in such areas<br>as D-J, news anchor/reporter, sports reporter, commercial voice-over<br>artist, production director, writer, producer and director. |
| 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.                                                                                                                    | Video production techniques emphasizing narrative storytelling, film-<br>style aesthetics and production. <b>R-TV 20 — Television News Production 3 Units</b> Degree Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                   |
| ■ R-TV 15 — Broadcast Business Practices 3 Units<br>Degree Applicable<br>54 hours lecture<br><i>Corequisite: R-TV 01 (may have been taken previously)</i><br>Radio and television industry as a business for profit. Basic techniques<br>in negotiating with station management and agents as well as dealing<br>with contracts, residuals, re-use rights, mergers, protection of | 36 hours lecture<br>54 hours lab<br><i>Prerequisite: R-TV 05 or R-TV 19A</i><br>TV newscast production using writing, announcing, production,<br>equipment, direction, graphics, and editing skills both in and out of the<br>studio.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | disc jockeys in broadcasting history. <b>R-TV 32 — Radio - TV Internet Applications</b> 3 Units Degree Applicable 54 hours lecture Creating and managing material on radio, TV and movie websites such as cross-promoting on-air content and converting audio and video.                                                                                                                          |
| intellectual properties, union representation and Federal<br>Communications Commission (FCC) law. Professional ethics and<br>broadcasters' responsibilities to their audiences are also discussed.                                                                                                                                                                                | ■ R-TV 21 — Remote Television Production and Engineering 3 Units<br>Degree Applicable<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: R-TV 19A</i><br>Students learn remote video production using both multi-camera and<br>single camera techniques. Topics include video engineering, directing,<br>and remote production truck setup.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ■ R-TV 33 — Radio Show Producer Techniques 3 Units<br>and Procedures Degree Applicable<br>54 hours lecture<br><i>Corequisite: R-TV 01 (May have been taken previously.)</i><br>Covers the behind-the-scenes aspects of producing a radio show, with<br>special emphasis on generating ideas for specific audiences, identifying<br>and booking guests and preparing interviews for broadcast.     |

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| 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. <b>R-TV 96 — Campus Radio Station Lab 1 to 2 Units</b> Degree Applicable (May be taken four times for credit) 54 to 108 hours lab Prerequisite: R-TV 01 Advisory: R-TV 02 and R-TV 11A Regular and continuing experience in the operation of the College radio stations. Students may work in on-air or behind-the-scenes roles. Students who repeat this course will improve skills through further instruction and practice. <b>R-TV 97A — Radio/Entertainment Industry Seminar 1 Unit</b> Degree Applicable (May be taken four times for credit) 18 hours lecture Prerequisite: R-TV 01 and any other three R-TV units Corequisite: R-TV 97B A capstone class for students preparing for a career in the radio/entertainment industry. Students share and critique experiences emphasizing professionalism and problem-solving techniques related to | Degree Applicable<br>(May be taken four times for credit)<br>36 hours lecture<br><i>Prerequisite: Completion of six R-TV units</i><br>To offer selected students recognition for their academic interests and<br>ability and the opportunity to explore their disciplines to greater depth,<br>the various departments from time to time offer Special Projects<br>courses. The content of each course and the methods of study vary from<br>semester to semester and depend on the particular project under<br>consideration. Students repeating this course will make individual<br>contracts of a more advanced nature with the instructor to ensure that<br>proficiencies are enhanced.<br><b>■ R-TV 100 — Work Experience in Film and Television 1 to 3 Units</b><br>Degree Applicable<br>(May be taken four times for credit)<br>(May be taken for option of letter grade or Pass/No Pass)<br>75 to 225 hours lab<br><i>Prerequisite:Completion of 12 units of R-TV courses from among the</i><br><i>following: R-TV 1, 14, 18, 19A, 19B, 20, 21, 22, 23, taken at Mt. San</i><br><i>Antonio College. Compliance with work experience regulations as</i><br><i>designated in the college catalog.</i><br>Provides students with on-the-job experience in the film or TV industry,<br>related to classroom instruction, at an approved work site. A minimum<br>of 60 unpaid or 75 paid hours of supervised work is required for each | <ul> <li>RAD 32 — Digital Imaging in Radiology 2 Units<br/>Degree Applicable</li> <li>36 hours lecture<br/>Prerequisite: RAD 52A and RAD 61A<br/>Corequisite: RAD 52B</li> <li>Components, principles and operation of digital imaging systems found<br/>in diagnostic radiology. Factors that impact image acquisition, display,<br/>archiving and retrieval discussed. Guidelines for selecting exposure<br/>factors and evaluating images within a digital system assist students to<br/>bridge between film-based and digital imaging systems. Principles of<br/>digital system quality assurance and maintenance presented.</li> <li>RAD 50 — Radiologic Technology 3 Units<br/>Degree Applicable, CSU<br/>54 hours lecture<br/>Prerequisite: Admission to the Radiologic Technology Program and CHEM<br/>10<br/>Radiation protection, darkroom technique, general principles of x-ray<br/>production and production of the radiograph in the hospital<br/>environment. Includes professional ethics and the legal considerations<br/>of health care.</li> <li>RAD 52A — Techniques of Radiologic Technology 5 Units<br/>Degree Applicable, CSU</li> <li>May be taken for Pass/No Pass only)<br/>263 hours lab<br/>Prerequisite: ANAT 10A</li> </ul> |
| <ul> <li>emphasizing professionalism and problem-solving techniques related to their internship experience. Students who repeat this course will improve skills through further instruction and practice.</li> <li><b>R-TV 97B</b> — Radio/Entertainment Industry Internship 1 Unit Degree Applicable (May be taken four times for credit) 75 hours lab</li> <li>Prerequisite: R-TV 01 and any other three R-TV units Corequisite: R-TV 97A</li> <li>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.</li> </ul>                                                                                                          | unit of credit. Students who repeat this course will improve skills through further experience. RADIOLOGIC TECHNOLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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). <b>RAD 52B</b> — Techniques of Radiologic Technology 2.5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 140 hours lab <i>Prerequisite: RAD 52A</i> 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. <b>RAD 53</b> — Techniques of Radiologic Technology 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Prerequisite: RAD 55B<br>Corequisite: RAD 64 and RAD 65<br>Components and characteristics of fluoroscopic systems including<br>regulatory requirements for operation. Includes quality control and<br>quality assurance systems relative to radiology.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RAD 53 — Techniques of Radiologic Technology 5 Units<br>Degree Applicable, CSU<br>(May be taken for Pass/No Pass only)<br>263 hours lab<br>Prerequisite: RAD 52B<br>Corequisite: RAD 62A<br>Practical application of radiographic theories and principles in an<br>affiliated hospital under direct supervision of clinical personnel and<br>college instructors. Emphasis on abdominal and thoracic viscera, spine,<br>common contrast exams, and generalized skull radiography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| ■ RAD 54 — Techniques of Radiologic Technology 3 Units<br>Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                                     | RAD 61A — Theory of Radiologic Technology 4 Units<br>Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                                                           | ■ RAD 62C — Radiologic Technology Seminar 1.5 Units<br>Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| (May be taken for Pass/No Pass only)<br>167 hours lab<br><i>Prerequisite: RAD 62A</i><br>Practical experience in a hospital setting under the supervision of<br>clinical personnel and college instructors. Emphasis on skull, portable<br>radiography, surgical studies and the development of nursing skills as it<br>relates to radiologic technology.                                                                                                                            | 72 hours lecture<br>Prerequisite: RAD 50, MEDI 90<br>Corequisite: RAD 52A, RAD 61B, RAD 61C<br>Concepts of radiation, fundamentals of physics, the atom,<br>electromagnetic radiation, electricity and magnetism,<br>electromagnetism, the X-ray machine and fluoroscopic equipment and<br>procedures.                                                                                                                                                                                                | 18 hours lecture<br>18 hours lab<br><i>Corequisite: RAD 62A and RAD 62B</i><br>Analysis of the technical performance of radiographic examination of<br>the vertebral column, bony thorax, digestive system, urinary system,<br>abdomen and skull radiography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul> <li>RAD 55A — Techniques of Radiologic Technology</li> <li>7.5 Units<br/>Degree Applicable, CSU</li> <li>(May be taken for Pass/No Pass only)</li> <li>383 hours lab</li> <li>Corequisite: RAD 63</li> <li>Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on cystograms, urethrograms, foreign body localization, tomography, and venography.</li> </ul>                                                 | RAD 61B — Radiographic Positioning 3 Units<br>Degree Applicable, CSU     S4 hours lecture     Prerequisite: RAD 50, RAD 91, ANAT 10A, and MEDI 90     Corequisite: RAD 61A, RAD 61C, and RAD 52A     Radiographic positioning of the upper and lower extremities, standard     chest and abdomen; to include general radiologic anatomy, terminology,     radiation protection, and ethics.                                                                                                           | <ul> <li>RAD 63 — Theory of Radiologic Technology 4 Units<br/>Degree Applicable, CSU</li> <li>72 hours lecture<br/>Prerequisite: RAD 54<br/>Corequisite: RAD 55A</li> <li>Special radiographic studies, contrast media usage and radiographic<br/>pathology. Includes principles of radiation protection and radiobiology.</li> <li>RAD 64 — Theory of Radiologic Technology 4 Units<br/>Degree Applicable, CSU</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      |
| ■ RAD 55B — Techniques of Radiologic Technology 2.5 Units<br>Degree Applicable, CSU<br>(May be taken for Pass/No Pass only)<br>140 hours lab<br><i>Prerequisite: RAD 55A</i><br>Continued experience in a hospital setting under guidance of clinical<br>personnel and college instructors. Emphasis on E.R.C.P., sialogram,<br>retrograde and other advanced procedures.                                                                                                            | ■ RAD 61C — Radiologic Technology Seminar 1.5 Units<br>Degree Applicable, CSU<br>18 hours lab<br><i>Corequisite: RAD 61A and RAD 61B</i><br>Analysis of technical performance when producing radiographs of the<br>chest, upper and lower extremities, and abdomen. Documentation of<br>radiographic exposure techniques.                                                                                                                                                                             | 72 hours lecture<br>Prerequisite: RAD 63<br>Corequisite: RAD 31 and RAD 56<br>An analytical review of the radiologic technology core courses. Serves as<br>preparation for State Certification and National Registry Exams.<br><b>RAD 91 — Nursing Procedures in Radiologic Technology 1.5 Units</b><br>Degree Applicable, CSU<br>18 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| RAD 56 — Techniques of Radiologic Technology 7 Units<br>Degree Applicable, CSU<br>(May be taken for Pass/No Pass only)<br>380 hours lab<br><i>Corequisite: RAD 64</i><br>Practical experience in an affiliated hospital under guidance of clinical<br>personnel and college instructors. Emphasis on basic vascular<br>procedures (angiograms), mammograms, tube placement, myelograms,                                                                                              | ■ RAD 62A — Theory of Radiologic Technology 4 Units<br>Degree Applicable, CSU<br>72 hours lecture<br><i>Prerequisite: ANAT 10A, RAD 61A</i><br><i>Corequisite: RAD 53, RAD 62B and RAD 62C</i><br>Areas of X-ray production and interaction with matter, X-ray emissions,<br>beam restricting devices, grids, film processing, screens, radiographic<br>quality and special equipment/accessories and procedures.                                                                                     | 47 hours lab<br><i>Corequisite: RAD 50</i><br>Nursing techniques and procedures; provides students with knowledge<br>of proper patient care and management; includes patient transfer,<br>disinfection and/or sterilization, isolation techniques, monitoring vital<br>signs, common emergency situations and monitoring medical<br>equipment.<br>READING                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| arthrograms, and hysterosalpingograms. <b>RAD 57</b> — Techniques of Radiologic Technology       4.5 Units         Degree Applicable, CSU         (May be taken for Pass/No Pass only)         239 hours lab         Prerequisite: RAD 64         Practical experience as a functioning member of an affiliated hospital under the guidance of clinical personnel and college instructors. Includes exploration of pararadiological imaging modalities and venipuncture instruction. | ■ RAD 62B — Radiographic Positioning 3 Units<br>Degree Applicable, CSU<br>54 hours lecture<br><i>Prerequisite: RAD 32 and RAD 52B</i><br><i>Corequisite: RAD 62A and RAD 62C and RAD 53</i><br>Radiographic positioning and procedures of the abdomen, digestive and<br>urinary systems, thorax, vertebral column, general cranial, facial and<br>introduction to temporal bone radiography to include radiologic<br>anatomy, terminology, radiation protection, pediatric radiography and<br>ethics. | <ul> <li>READ 70 — Improving Reading Comprehension 3 Units<br/>Not Degree Applicable</li> <li>(May be taken for Pass/No Pass only)</li> <li>54 hours lecture</li> <li>Prerequisite: Satisfactory score on appropriate placement test</li> <li>Introduction to reading, comprehension, and vocabulary strategies using<br/>narrative text. Introduction to self-awareness of reading capabilities.</li> <li>READ 80 — Developing Reading Comprehension 3 Units<br/>Not Degree Applicable</li> <li>(May be taken for Pass/No Pass only)</li> <li>54 hours lecture</li> <li>Prerequisite: READ 70 or satisfactory score on reading placement test</li> <li>Further development of reading comprehension and vocabulary<br/>strategies including self-awareness of reading capabilities.</li> </ul> |

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| <ul> <li>READ 90 — Preparing for College Reading Degree Applicable Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: 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.</li> <li>READ 100 — Analysis and Critical Reading 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 texts to include: academic, business, and technology readings.</li> <li>RESD 50 — Theory and Principles of Respiratory Therapy 2 Units Degree Applicable, CSU 36 hours lecture Prerequisite: ANAT 10A, ANAT 10B, CHEM 10, MATH 51 and MEDI 90 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.</li> <li>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 and application of specialized equipment in the clinical setting. Basic respiratory physiology and oxygen transport.</li> <li>RESD 51B — Respiratory Therapy Science 4 Units Degree Applicable, CSU 54 hours lab Prerequisite: RESD 50 and RESD 51A Coreguisite: RESD 51A 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.</li> <li>RESD 51B — Respiratory Therapy Science 4 Units Degree Applicable, CSU 54 hours lab Prerequisite: RESD 50 and RESD 51A Coreguisite: RESD 50 and RESD 51A Coreguisite: RESD 50 a</li></ul> | <ul> <li>RESD 52 — Pulmonary Anatomy and Physiology 3 Units<br/>Degree Applicable, CSU<br/>54 hours lecture<br/>Corequisite: RESD 50 and RESD 51A<br/>Anatomy and physiology of the cardiopulmonary, neurological and renal<br/>systems emphasizing clinical application of physiological concepts.</li> <li>RESD 53 — Cardiopulmonary Pathophysiology 3 Units<br/>Degree Applicable, CSU<br/>54 hours lecture<br/>Corequisite: RESD 51B<br/>Anatomic alterations of the lungs, etiology, overview of the<br/>cardiopulmonary clinical manifestations, and general management of<br/>commonly encountered cardiopulmonary diseases.</li> <li>RESD 55 — Adult Respiratory Intensive Care 3 Units<br/>Degree Applicable, CSU<br/>54 hours lecture<br/>Corequisite: RESD 56B<br/>Provides an in-depth approach to the current modalities and monitoring<br/>tools of respiratory care. Emphasis is on the adult patient who is<br/>critically ill with primary and/or secondary cardiopulmonary failure.</li> <li>RESD 56A — Techniques of Respiratory Therapy 2.5 Units<br/>Degree Applicable, CSU<br/>(May be taken for Pass/No Pass only)<br/>143 hours lab<br/>Prerequisite: RESD 57B<br/>Clinical practice in intensive care and mechanical ventilator procedures<br/>in the treatment of adult and pediatric patients in a hospital setting.<br/>The student is expected to perform basic therapeutic modalities<br/>mastered in RESD 51B and apply concepts learned in the<br/>first academic sessions of the Respiratory Therapy Program. Instruction<br/>in the application of therapeutic modalities madignostic procedures<br/>performed in the general management and treatment of adult and<br/>pediatric patients requiring respiratory care are introduced.</li> <li>RESD 56B — Techniques of Respiratory Therapy 6 Units<br/>Degree Applicable, CSU<br/>(May be taken for Pass/No Pass only)<br/>324 hours lab<br/>Prerequisite: RESD 56A<br/>Corequisite: RESD 56A 16<br/>Corequisite: RESD 56A 16<br/>Core</li></ul> | <ul> <li>RESD 56C — Techniques of Respiratory Therapy<br/>Degree Applicable, CSU<br/>(May be taken for Pass/No Pass only)<br/>143 hours lab<br/>Prerequisite: RESD 55</li> <li>Clinical practice in the hospital setting. Continued practice of intensive<br/>care and mechanical ventilator procedures in the treatment of adult and<br/>pediatric patients.</li> <li>RESD 56D — Techniques of Respiratory Therapy<br/>Outs<br/>Degree Applicable, CSU<br/>(May be taken for Pass/No Pass only)<br/>325 hours lab<br/>Prerequisite: RESD 56C<br/>Corequisite: RESD 59 and RESD 61<br/>Clinical practice in the hospital setting. Application of therapeutic<br/>modalities and diagnostic procedures performed in the management<br/>and treatment of adult and pediatric intensive care patients. A six-week<br/>rotation is done in the neonatal intensive care unit. The student is<br/>expected to perform basic therapeutic modalities mastered in RESD 51A<br/>and RESD 51B and apply concepts learned in the first four semesters of<br/>the Respiratory Therapy Program.</li> <li>RESD 57A — Special Procedures for Respiratory Care<br/>Prerequisite: RESD 50<br/>Application of and skills development in bronchoscopy, blood drawing<br/>and analysis, chest drainage, microbiology for respiratory care,<br/>intermittent positive pressure breathing (IPPB), and blood gas data<br/>analysis.</li> <li>RESD 57B — Special Procedures for Respiratory Care<br/>Prerequisite: RESD 56A<br/>Basic application and skills development in respiratory pharmacology,<br/>bronchoscopy, and blood drawing and analysis.</li> <li>RESD 58 — Neonatal Intensive Care<br/>Degree Applicable, CSU<br/>24 hours lecture<br/>Corequisite: RESD 56A and RESD 55<br/>Emphasizes neonatal pathophysiologies, etiologies, and ramifications.<br/>Encompasses the newest techniques in monitoring equipment used in</li> </ul> |
| Degree Applicable, CSU<br>54 hours lecture<br>54 hours lab<br>Prerequisite: RESD 50 and RESD 51A<br>Corequisite: RESD 53 and RESD 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Degree Applicable, CSU<br>(May be taken for Pass/No Pass only)<br>324 hours lab<br><i>Prerequisite: RESD 56A</i><br><i>Corequisite: RESD 55 and RESD 58</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RESD 58 — Neonatal Intensive Care     3 Units     Degree Applicable, CSU     54 hours lecture     Corequisite: RESD 56B and RESD 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| <ul> <li>If SD 99 — Repiratory Therapeutic Modalities 3 Units Degree Applicable, CSU to Gregarize RESD 95 — Anametican Sign Language 5 a Units Concernation Resource on Comparison Resource Resource On Comparison Resource on Comparison Resource Resource On Comparison Resource on Comparison Resource Resource On Comparison Resource Resource On Comparison Resource Resource On Comparison R</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Correguistic RSD 518 and RSD 53       Employed RSD 53         Correguistic RSD space       Degree Applicable, CSU         Phores recently and phononary assessment including history taking, clinical laboratory data, pulmonary function testing data, cherxit Arago, physician, estination and sprophicable, CSU       Correguistic RSD 50       Emplosa on expressive/conversational skills in American Sign Language 5       4 Units on the expressive conversational skills in American Sign Language 5         RESD 61 — Current Issues in Respiratory Care       3 Units and addresses community needs through service learning.       1 Units and addresses community populations to identify needs and implement activities. Permits exploration of service-oriented and exercer development through understanding of civic and social issues.       5 Sign 126 Sign 25 Sign and Rs20 52         Paptores recently developed health care techniques and strategies for diagnostics, assessment, and therapeutics and their impact on respiratory threapists.       5 Sign 216 Papticable, CSU (Mag be taken for Pass), Pap-Special Projects in Service Learning 1 Unit health occupations.       5 Sign 216 Papticable, CSU (Mag be taken for Pass), Pap-Special Projects in Service Learning 1 Unit Health Occupations.       5 Sign 126 Papticable, CSU (Mag be taken for Pass), Papticable, CSU (Mag be taken for papticable, CSU (Mag be taken for Pass), Papticable, CSU (Mag be taken for papticable, CSU (Mag be taken for opticoble, CSU (Mag be ta                                                                                                                                                                                                                                                 | Degree Applicable, CSU<br>54 hours lecture<br><i>Corequisite: RESD 56C</i><br>Advanced practitioner review and evaluation of patient data, equipment<br>manipulation, and therapeutic respiratory therapy procedures. Student<br>self assessment and preparation for board examinations, credentialing<br>and employment. Students are required to purchase self-assessment<br>examinations.<br><b>RESD 60 — Comprehensive Pulmonary Assessment</b><br>Degree Applicable, CSU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Community Involvement<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>108 hours lab<br>Examines and profiles community needs through service learning.<br>Explores and allows students to directly interface with community<br>populations. Permits students the opportunity to explore various career<br>options through community service. Enriches personal and career<br>development through understanding of civic and social issues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Degree Applicable, CSU, UC<br>72 hours lecture<br><i>Prerequisite: SIGN 81 or SIGN 102 or equivalent fluency</i><br>Further study of American Sign Language focused on developing<br>comprehension skills, advanced grammatical structures with continued<br>emphasis on expressive skills in narrative. Aspects of Deaf culture will<br>be studied.<br><b>I SIGN 104 — American Sign Language 4</b><br><b>4 Units</b><br>Degree Applicable, CSU, UC<br>72 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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Interfaces with<br>various patient populations. Weekend and overnight labs to various<br>areas within California may be offered. Out-of-class projects required.<br><b>I SL 2 — Linked Service Learning</b><br><b>1 Unit</b><br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>54 hours lab<br>Links service learning with content-specific courses across the college<br>curriculum. Allows students to explore interests or career objectives<br>through community involvement and service. Requires arranged hours<br>of community-based activity. Must be enrolled concurrently in a course | Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>9 hours lecture<br>27 hours lab<br>Examines and addresses community needs through service learning.<br>Students directly interface with community populations to identify<br>needs and implement activities. Permits exploration of service-oriented<br>career options. Enriches personal and career development through<br>understanding of civic and social issues.<br><b>I</b> SL 99 — Special Projects in Service Learning 1 Unit<br>Degree Applicable, CSU<br>(May be taken for Pass/No Pass only)<br>36 hours lab<br>In order to offer selected students recognition for their academic<br>interests and ability and the opportunity to explore their disciplines to<br>greater depth, from time to time various departments offer Special<br>Projects courses. The content of each course and the methods of study<br>vary from semester to semester and depend on the particular project<br>under consideration. Student must have instructor's authorization<br>before enrolling in this class.<br>SIGN LANIGUAGE, INTERPRETING<br>I SIGN 101 — American Sign Language 1 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Fundamentals of American Sign Language. Preparation for<br>visual/gestural communication followed by intensive work on<br>comprehension skills; modeling of grammatical structures; general<br>information about Deaf Culture.<br>I SIGN 102 — American Sign Language 2 4 Units<br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Prerequisite: SIGN 80 or SIGN 101 or equivalent fluency<br>Further study of fundamentals of American Sign Language focusing on<br>comprehension skills, grammatical structures and practice in the | 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.         Image: SIGN 105 - American Sign Language 5       4 Units Degree Applicable, CSU         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.         Image: SIGN 108 - Fingerspelling       2 Units Degree Applicable         May be taken for Pass/No Pass only)       36 hours lecture         9 Frerequisite: SIGN 81 or SIGN 102       Skill development in receptive and expressive fingerspelling.         Image: SIGN 201 - Deaf Perspectives       3 Units Degree Applicable, CSU         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.         Image: SIGN 202 - American Deaf Culture       3 Units Degree Applicable, CSU, UC S4 hours lecture         American Deaf cultural norms, values, mores and institutions.       Image: SIGN 203 Linguistic structure of American Sign Language Structure       3 Units Degree Applicable, CSU, UC S4 hours lecture |

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| <ul> <li>SIGN 220 — Translation: American Sign Language/English 3 Units<br/>Degree Applicable, CSU</li> <li>S4 hours lecture<br/>Prerequisite: SIGN 104<br/>Corequisite: SIGN 104<br/>Corequisite: SIGN 210 (May have been taken previously.)<br/>American Sign Language and English translation by comparing texts in<br/>both languages.</li> <li>SIGN 223 — Principles of Interpreting<br/>Degree Applicable, CSU</li> <li>S4 hours lecture<br/>Prerequisite: SIGN 102, Eligibility for ENGL 1A<br/>Covers various aspects of interpreting theory and process including the<br/>history of sign language interpreting. Examines the interpreter's role<br/>and ethical standards.</li> <li>SIGN 225 — Ethical Decision Making for Interpreters<br/>Prerequisite: SIGN 102, Eligibility for ENGL 1A<br/>Covers various aspects of interpreting theory and process including the<br/>history of sign language interpreting. Examines the interpreter's role<br/>and ethical standards.</li> <li>SIGN 225 — Ethical Decision Making for Interpreters<br/>Prerequisite: SIGN 223<br/>Development of ethical decision-making skills through the analytical<br/>construct of the Demand/Control Schema for interpreting work. Topics<br/>include professional work effectiveness and professional wellness.</li> <li>SIGN 227 — Cognitive Processing for Interpreters<br/>S4 hours lecture<br/>S4 hours lecture<br/>S4 hours leab<br/>Prerequisite: ENGL 1A and SIGN 104 and SIGN 223, or ENGL 1A and SIGN<br/>104 and SIGN 230The development of cognitive processing skills<br/>necessary for interpreting between ASL and English. Constructing and<br/>deconstructing meaning, memory, listening and attending will be<br/>covered. Includes memory building, restating, cloze, and listening<br/>exercises.</li> <li>SIGN 231 — Interpreting<br/>A Units<br/>Degree Applicable</li> <li>hours lecture<br/>S4 hours leab<br/>Prerequisite: SPGL 1A and SIGN 227<br/>Skill development in interpreting from American Sign Language (ASL)<br/>to English and English to ASL, focusing on interpreting in the<br/>consecutive mode. Processing skills and task management will be<br/>emphasized.</li> </ul> | <ul> <li>SIGN 232 — Advanced Interpreting Degree Applicable Degree Applicable Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab Prerequisite: SIGN 231</li> <li>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.</li> <li>SIGN 239 — Practicum 1 Unit Degree Applicable (May be taken for Pass/No Pass only) 54 hours lab Prerequisite: SIGN 28B or SIGN 232 Develops and hones interpreting skills in supervised interpreting situations.</li> <li>SIGN 240 — Vocabulary Building for Interpreters 2 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 36 hours lecture Prerequisite: SIGN 104</li> <li>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.</li> <li>SIGN 250 — Interpreting with Classifiers 1.5 Units Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture 27 hours lab Prerequisites: SIGN 104 and SIGN 210 An overview of the common forms of ASL classifier predicates. Developing skill in establishing figure/ground, visualization, and shifting perspectives. Applying classifier predicates within the context of interpreting from English into American Sign Language.</li> <li>SIGN 260 — Video Interpreting and ethical consideration of the video interpreting (VRS), video remote interpreting (VRI), technical components used in video interpreting, and ethical consideration of the video interpreting (VRS), video remote interpreting (VRI), technical components used in video interpreting.</li> </ul> | SOCIOLOGY         SOC 1 — Sociology       3 Units<br>Degree Applicable, CSU, UC         S4 hours lecture       Prerequisite: Eligibility for ENGL 68         A systematic study of human relations and social structures which<br>emphasizes the interaction between personality, culture and society.<br>Special consideration is given to an understanding of group behavior,<br>personality formation, social organization, and social change.         SOC 1H — Sociology - Honors       3 Units<br>Degree Applicable, CSU, UC         S4 hours lecture       Prerequisite: Acceptance into the Honors Program         A systematic study of human relations and social structures which<br>emphasizes the interaction between personality, culture and society.<br>Special consideration is given to an understanding of group behavior,<br>personality formation, social organization, and social change. An honors<br>course designed to provide an enriched experience. Students may not<br>receive credit for both SOC 1 and SOC 1H.         SOC 2 — Sociology       3 Units<br>Degree Applicable, CSU, UC         S4 hours lecture       Advisory: Eligibility for ENGL 68         The application of basic sociological principles and concepts to the study<br>and understanding of social problems. Special emphasis on the analysis<br>of social values, social organization, role, status and stress, and also on<br>the study of controversial public issues that arise in contemporary<br>American society. Students will be encouraged to evaluate and discuss<br>both the theoretical and practical approaches to social problems.<br>Individual student projects will be undertaken.         SOC 2H — Sociology - Honors       Sunits<br>Degree Applicable, CSU, UC |
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| <ul> <li>SOC 4 — Introduction to Gerontology 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Characteristics, contributions, and problems of older persons. Emphasizes<br/>theoretical perspectives on the process of aging. Topics include gender,<br/>race, ethnicity, religion, stratification, and health care. Attention is given<br/>to gerontology as an academic discipline and a field of practice.</li> <li>SOC 5 — Introduction to Criminology 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>A scientific analysis of the nature, extent, and causes of violations of<br/>societal rules of behavior that are formally defined as crime and<br/>delinquency. Includes an analysis of the theoretical perspectives of the<br/>sociology of deviance on the criminology - Honors 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>SOC 5H — Introduction to Criminology - Honors 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture</li> <li>Prerequisite: Acceptance into the Honors Program<br/>A scientific analysis of the nature, extent, and causes of violations of<br/>societal rules of behavior that are formally defined as crime and<br/>delinquency. Includes an analysis of the theoretical perspectives of the<br/>sociology of deviance on the criminal justice system and the impact of<br/>crime on society.</li> <li>54 hours lecture<br/>Prerequisite: Acceptance into the Honors Program<br/>A scientific analysis of the nature, extent, and causes of violations of<br/>societal rules of behavior that are formally defined as crime and<br/>delinquency. Includes an analysis of the theoretical perspectives of the<br/>sociology of deviance on the criminal justice system and the impact of<br/>crime on society. An honors course designed to provide an enriched<br/>experience. Students may not receive credit for both SOC 5 and SOC 5H.</li> <li>SOC 7 — Sociology of Religion 3 Units<br/>Degree Applicable, CSU, UC</li> </ul> | <ul> <li>SOC 14H — Marriage and the Family - Honors 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture<br/>Prerequisite: Acceptance into the Honors Program</li> <li>Sociological functions of dating, engagement, weddings, marriage, and<br/>the family. Focuses on influences and theories of mate selection, love,<br/>and interpersonal attraction. Covers trends and changes in marriage, the<br/>family, and gender roles. Explores different types of families and family<br/>patterns. An honors course designed to provide an enriched experience.<br/>Students may not receive credit for both SOC 14 and SOC 14H.</li> <li>SOC 15 — Child Development 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Theoretical aspects of physical, social, emotional and cognitive<br/>development from conception through adulthood. Requires observation<br/>of children.</li> <li>SOC 20 — Sociology of Ethnic Relations 3 Units<br/>Degree Applicable, CSU, UC</li> <li>54 hours lecture<br/>Provides insight to the culture diversity that exists in the United States.<br/>An extensive study of four major ethnic groups (Blacks, Asians, Native<br/>Americans, and Latinos) is provided with emphasis placed on historical<br/>experiences, contemporary circumstances and future trends. Origins and<br/>theories of stereotypes, prejudices and discrimination are explored along<br/>with an analysis of racial stratification.</li> <li>SOC 20H — Sociology of Ethnic Relations - Honors 3 Units<br/>Degree Applicable, CSU, UC</li> </ul> | <ul> <li>SOC 91 — Service Learning for Sociology 1 Unit Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Prerequisite: Eligibility for ENGL 68 Increases awareness and appreciation for civic responsibility through service learning. Students will examine the sociological dynamics of community service and assess specific needs for community service and fundraising. Field trips required.</li> <li>SOC 91L — Service Learning for Sociology Lab .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) 27 to 108 hours lab Corequisite: SOC 91 (May have been taken previously.) Examines and addresses community needs through service learning. Students will organize fundraising and other community events. Field trips required.</li> <li>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</li> </ul> |
| <ul> <li>54 hours lecture         An analysis of religion as a social institution. Attention will focus on the influence that religion has on American society, religious movements, norms, symbols and the social manifestations of religious observable facts.     </li> <li>SOC 14 — Marriage and the Family         3 Units Degree Applicable, CSU, UC 54 hours lecture         Prerequisite: Eligibility for ENGL 68         Sociological 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, the family, and gender roles. Explores different types of families and family patterns.     </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul> <li>54 hours lecture         <i>Prerequisite: Acceptance into the Honors Program</i>         Provides insight to the culture diversity that exists in the United States.         An extensive study of four major ethnic groups (Blacks, Asians, Native         Americans, and Latinos) is provided with emphasis placed on historical         experiences, contemporary circumstances and future trends. Origins and         theories of stereotypes, prejudices and discrimination are explored along         with an analysis of racial stratification. An honors course designed to         provide an enriched experience. Students may not receive credit for         both SOC 20 and SOC 20H.         SOC 36 — Asian American Communities             3 Units             Degree Applicable, CSU, UC         54 hours lecture         A socio-cultural study of Asian Americans that includes race, class and         gender. Explores the contemporary experiences of peoples originating in         the Pacific Islands, Southeast Asia, South Asia, and East Asia; emphasizes         social structure, social change, and offers a theoretical framework for         analysis.     </li> </ul>                                                                                                                                                                                                                                                                                                                                                                        | advanced nature with the instructor to ensure that proficiencies are enhanced.         SPANISH         SPANISH         Berentary Spanish         A Uni         Degree Applicable, CSU, U         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.         BAN 2 — Continuing Elementary Spanish         4 Uni         Degree Applicable, CSU, U         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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: SPAN 2 or equivalent<br>Further development of communicative proficiency in Spanish. Further<br>study and review of grammar. Increasing emphasis on reading and<br>writing as tools in exploring Hispanic civilization.<br><b>SPAN 4 — Continuing Intermediate Spanish 4 Units</b><br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: SPAN 3 or equivalent<br>Emphasis on increased proficiency in speaking, reading and writing<br>Spanish. Review of grammar, increased vocabulary building. Readings<br>and discussions on Hispanic cultural topics. Introduction to Hispanic<br>literature.<br><b>SPAN 5 — Advanced Spanish 4 Units</b><br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: SPAN 4 or equivalent<br>Emphasis is placed on increased proficiency in speaking, reading and<br>writing Spanish. Cultural insights are developed through videos, movies<br>and readings in Hispanic culture through different literary genres.<br><b>SPAN 6 — Continuing Advanced Spanish 4 Units</b><br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: SPAN 5 or equivalent<br>Marked for option of letter grade or Pass/No Pass)<br>72 hours lecture<br>Prerequisite: SPAN 5 or equivalent<br>Advanced reading, discussing and writing in Spanish designed to<br>provide further cultural insights into the Hispanic world through the<br>study of cultural and literary readings. High level of proficiency in<br>Spanish will be emphasized.<br><b>SPAN 11 — Spanish for the Spanish Speaking 4 Units</b><br>Degree Applicable, CSU, UC<br>72 hours lecture<br>Provides Spanish-speaking students without previous formal study of<br>Spanish with the basis to improve skills in standard Spanish and to<br>broaden their understanding of Hispanic cultures. Focuses on<br>developing vocabulary, improving orthography and the use of<br>grammatical | <ul> <li>SPAN 12 — Continuing Spanish for the Spanish Speaking 4 Units<br/>Degree Applicable, CSU, UC</li> <li>The equivalent Provides Spanish -speaking students with previous formal study of<br/>Spanish with further development and improvement of skills in<br/>standard Spanish and a broader understanding of Hispanic cultures.<br/>Culturally-based topics are the focus of readings and class discussions.<br/>Class instruction conducted in Spanish.</li> <li>SPAN 25 — Spanish Literature 3 Units<br/>Degree Applicable, CSU, UC</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>54 hours lecture<br/>Prerequisite: SPAN 4 or equivalent<br/>Introduction to the literatures of Mexico, other Spanish-American<br/>countries and Spain. All reading and lectures are in Spanish.</li> <li>SPAN 40 — Intermediate Spanish for<br/>Health Professionals<br/>Degree Applicable, CSU</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lecture<br/>Prerequisite: SPAN 2 or equivalent<br/>Introduction to the literatures of Mexico, other Spanish-American<br/>countries and Spain. All reading and lectures are in Spanish.</li> <li>SPAN 40 — Intermediate Spanish for<br/>Health Professionals<br/>Degree Applicable, CSU</li> <li>(May be taken for option of letter grade or Pass/No Pass)<br/>72 hours lecture<br/>Prerequisite: SPAN 2 or equivalent<br/>Intermediate level Spanish for health care professionals emphasizing<br/>speaking, oral comprehension and cross-cultural communication within<br/>a health care setting. Includes the study of vocabulary, grammar, spoken<br/>and written language in context, and Hispanic culture in the U.S.<br/>especially as it relates to health care issues.</li> <li>SPAN 53 — Conversational Spanish<br/>24 hours lecture<br/>Prerequisite: SPAN 2 or equivalent<br/>Development of intermediate Spanish conversational skills. Emphasis on<br/>collaborative activities and practical use of the language. Extensive<br/>exposure to Hispanic culture. Grammar is presented in context.</li> <li>SPAN 54 — Continuing Conversational skills. Emphasis on<br/>collaborative activities a</li></ul> | SPEECH         SPCH 1A — Public Speaking       4 Units<br>Degree Applicable, CSU, UC         72 hours lecture       Prerequisite: Eligibility for ENGL 68         Study and apply rhetorical principles to research and analyze topics,<br>write basic and advanced speech outlines, and deliver effective public<br>speeches. Perform speaking and listening assignments that utilize<br>effective verbal, vocal and physical communicative strategies, and<br>critical/analytical techniques. Students may not receive credit for both<br>SPCH 1A and SPCH 1AH.         SPCH 1AH — Public Speaking - Honors       4 Units<br>Degree Applicable, CSU, UC         72 hours lecture       Prerequisite: Acceptance into the Honors Program         Study and apply rhetorical principles to research and analyze topics, write<br>basic and advanced speech outlines, and deliver effective public speeches.<br>Perform speaking and listening assignments that utilize effective verbal,<br>vocal, and physical communicative strategies and critical/analytical<br>techniques. An honors course designed to provide an enriched experience.<br>Students may not receive credit for both SPCH 1A and SPCH 1AH.         SPCH 1B — Intermediate Public Speaking<br>and deducive reasoning, distinguishing fact from opinion and avoiding<br>fallacies of language and logic as critical thinkers both as alert<br>members of an audience and as perceptive public speakers.         SPCH 2 — Fundamentals of Communication       4 Units<br>Degree Applicable, CSU, UC         72 hours lecture       Crequisite: ENGL 1A or ENGL 1AH (May have been taken previously.)<br>fundamental theories and competencies in interpersonal, small group,<br>public, and intercultural communication. Oral presentations are required. |
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| <ul> <li>SPCH 4 — Performance of Literature 3 Units Degree Applicable, CSU, UC 54 hours lecture Industrial techniques of drawing production flats and design room sketches with a focus on swim wear, active wear, children's and junior clothing, and the full-fashion figure. Includes creation and maintenance of a personal design sketchbook, development of customer-specific fashion lines, textile selection, cost sheet development, full-color illustrating, full-scale patternmaking, and garment construction.</li> <li>SPCH 6 — Group Communication 3 Units Degree Applicable, CSU, UC 54 hours lecture Theory, principles, application and evaluation of group communication processes, including problem-solving, conflict management, decision making, and leadership.</li> <li>SPCH 7 — Intercultural Communication 3 Units Degree Applicable, CSU, UC 54 hours lecture Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication contexts, and a practical exploration into the Honors Program Theoretical dynamics of culture within communication contexts, and a practical exploration into the Honors Program Theoretical dynamics of culture within communication contexts, and a practical exploration into the Honors Program Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication contexts, and a practical exploration into the Honors Program Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication contexts, and a practical exploration into improving intercultural communication contexts, and a practical exploration into the Honors Program Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication contexts, and a practical exploration into improving intercultural communication contexts, and a practical exploration into improving intercultu</li></ul> | <ul> <li>SPCH 8H — Professional and Organizational Speaking 4 Units<br/>- Honors</li></ul> | <ul> <li>SPCH 17 — Forensics: Debate Team 3 Units<br/>Degree Applicable, CSU<br/>(May be taken four times for credit)<br/>167 hours lab<br/>Prerequisite: SPCH 15 or SPCH 20<br/>Speaking and argumentation skills and participation in multiple inter-<br/>collegiate speaking competitions, festivals, and/or public events as<br/>members of the Mt. SAC Forensics Team. Emphasis is on parliamentary<br/>debate and limited preparation speaking. Students who repeat this<br/>course will improve skills through further instruction and practice. Off-<br/>campus public or tournament performance required.</li> <li>SPCH 18 — Forensics: Readers Theater Team 3 Units<br/>Degree Applicable, CSU<br/>(May be taken four times for credit)<br/>167 hours lab<br/>Prerequisite: SPCH 15<br/>Speech performance skills and participation in multiple intercollegiate<br/>speaking competitions, festivals, and/or public events as members of<br/>the Mt. SAC Forensics Team. Students will perform in one or more<br/>reader?s theater pieces. Students will perform in one or more<br/>reader?s theater pieces. Students will perform in one or more<br/>reader?s theater pieces. Students will perform in one or more<br/>reader?s theater pieces. Students will perform in one or more<br/>reader?s theater pieces. Students will perform in one or more<br/>reader?s theater pieces. Students will perform and practice. Off-campus public or<br/>tournament performance required.</li> <li>SPCH 20 — Argumentation and Debate 3 Units<br/>Degree Applicable, CSU, UC<br/>54 hours lecture<br/>Prerequisite: SPCH 1A or SPCH 1AH or equivalent<br/>Equips the student to engage in rational discussion and reasoned<br/>advocacy. Emphasis is given to rhetorical principles of argumentation,<br/>both theory and practice.</li> <li>SPCH 20 — Argumentation and Debate - Honors 7<br/>Program</li> <li>Equips the student to engage in rational discussion and reasoned<br/>advocacy. Emphasis is given to rhetorical principles of argumentation,<br/>both theory and practice. An honors course designed to provide an<br/>enriched experience. Students may not receive credit for both SPCH 20<br/>and SPCH 20H.</li> <li>SPCH 26</li></ul> |
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# **Course Descriptions**

| 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 30 — Gateway to Communication Studies Uegree Applicable, CSU, UC 54 hours lecture Degree Applicable, CSU, UC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul> <li>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.     </li> <li> <b>STDY 85B</b> — 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 purpose designed to support learning in either an academic field or in a purpose for the purpose.     </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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 Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Prerequisite: ENGL 1A or ENGL 1AH (May have been taken previously)         Advisory: READ 100         Survey of prominent issues in communication theory, introduction to the professional field of communication, and practice of multiple research methods. Particularly useful for students preparing for upper division study in communication or related disciplines.         ■ SPCH 99 — Special Projects in Speech       2 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Online Learning<br>Not Degree Applicable<br>18 hours lecture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36 hours lecture<br>54 hours lab<br><i>Prerequisite: MATH 150</i><br>Surveying fundamentals; use and care of surveying instruments<br>including steel tape, engineer's level, theodolite and total station;<br>horizontal and vertical measurements; layout, traverse, area<br>computations; analysis and adjustments of systematic and random                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <ul> <li>SPCH 99 — Special Projects in Speech Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture</li> <li>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.</li> <li>STUDY TECHNIQUES</li> <li>STDY 80 — Studying and Learning: Foundations 3 Units for Success Not Degree Applicable</li> <li>(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture</li> <li>Advisory: Eligibility for ENGL 67 or READ 80</li> <li>Provides a foundation for life-long learning that promotes greater self-awareness and success. Academic success strategies include text management, time management, listening, note taking, oral and written communication, test- taking, memorization, use of campus resources, and research methods.</li> </ul> | Advisory: Eligibility for ENGL 67<br>A single purpose course designed to support learning in either an<br>academic field or in a vocation. Focuses on skills for successful online<br>learning and prepares students to take online classes and learn about<br>effective online communication tools.<br><b>I STDY 85D — Goal Setting and Time Management 1 Unit</b><br>Not Degree Applicable<br>18 hours lecture<br>Advisory: Eligibility for ENGL 67<br>A single purpose course designed to support learning in either an<br>academic field or in a vocation. Provides support in understanding how<br>the brain functions and applying that knowledge to goal setting and<br>time management strategies.<br><b>I STDY 85E — Memory and Concentration 1 Unit</b><br>Not Degree Applicable<br>18 hours lecture<br>Advisory: Eligibility for ENGL 67<br>A single purpose course designed to support learning in either an<br>academic field or in a vocation. Provides support in understanding how<br>the brain functions and applying that knowledge to goal setting and<br>time management strategies.<br><b>I STDY 85E — Memory and Concentration 1 Unit</b><br>Not Degree Applicable<br>18 hours lecture<br>Advisory: Eligibility for ENGL 67<br>A single purpose course designed to support learning in either an<br>academic field or in a vocation. Provides support in understanding how<br>the brain functions and applying that knowledge to memory and<br>concentration strategies. | computations; analysis and adjustments of systematic and random<br>errors; stadia surveying; mapping.<br><b>SURV 1B — Surveying</b><br><b>3 Units</b><br>Degree Applicable, CSU, UC<br>(May be taken for option of letter grade or Pass/No Pass)<br>36 hours lecture<br>54 hours lab<br><i>Prerequisite: SURV 1A</i><br>Land surveying including coordinate geometry, missing data,<br>construction surveying, volumes, property surveying, control surveying,<br>California Coordinate System, and horizontal and vertical curves.<br>Introduces photogrammetric methods, 3-D laser scanning, Global<br>Positioning System (GPS), Geographic Information System (GIS),<br>mapping project, method of least squares, and land survey descriptions.<br>Field trips are required.<br><b>TECHNOLOGY-RELATED COURSES</b><br><b>TECH 60 — Customer Relations for the Technician</b><br>(May be taken for Pass/No Pass only)<br>18 hours lecture<br>Customer relations (soft skills) for the technician including benefits of<br>knowing and using effective customer contact tools, proper customer<br>interactions, ethics, and maintaining customer satisfaction. |

# **Course Descriptions**

| <ul> <li>THR 9 — Intraduction to heater Ats</li> <li>Shours letture</li>     &lt;</ul> | THEATER ARTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | THTR 16 — Theatrical Make-Up 2.5 Units                                                                                                                                                                                                                                                                                                                                      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| <ul> <li>THR 10 — History of Theatre Arts         <ul> <li>Degree Applicable, CSU, UC</li> <li>Shows leture             Prerequisite: THR 11         </li> <li>THR 17 — Acting for the Camea             <ul></ul></li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Degree Applicable, CSU, UC<br>54 hours lecture<br>A comprehensive introduction to the theater, including the aesthetic,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 36 hours lab<br>An introduction to the theory and practice of make-up for the stage.<br>The student will gain practice in the design and application of straight,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Advisory: Eligibility for ENGL 1A<br>Playwriting for the stage. Students will create and critique their own<br>plays, as well as study and critique plays from established authors and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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Representative plays and the history and development of the living stage will be stressed.         Image: THTR 11 — Principles of Acting I       3 Units         Degree Applicable, CSU, UC         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.         Image: THTR 12 — Principles of Acting II       3 Units         Degree Applicable, CSU, UC       54 hours lecture         Prerequisite: THTR 11       Advanced study of principles presented in DRMA 11. An investigation of acting techniques through the study and presentation of varied dramatic scenes.         Image: THTR 14 — Stagecraft       3 Units         Degree Applicable, CSU, UC       May be taken two times for credit)         36 hours lecture       54 hours lab         Theory and practice of stage design and lighting. Practical work in 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.         Image: the taken for option of letter grade or Pass/No Pass | stylized character, and other make-up techniques.  THTR 17 — Acting for the Camera Degree Applicable, CSU, UC S4 hours lecture Prerequisite: THTR 11 Study in performance for TV and films. 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, evaluation and use of scripts and monologues with practical exercises and on-camera scenes in various styles such as TV drama, sit-coms, commercials. Assists students prepare for an occupation in the performing areas of television and film.  THTR 18 — Technical Theater Practicum U(May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) (May be taken four grape scenery construction, stage lighting set up, property construction, stage scound set up, costume construction and make-up. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production. Students who repeat this course will improve skills through further instruction and practice.  THTR 19 — Theatrical Costuming U(May be taken two times for credit) G(May be taken two times for credit) G(May be taken two times for credit) Degree Applicable, CSU, UC (May be taken two times for credit) B THTR 19 — Theatrical Costuming B UP articipation, the production. Students who repeat this course will improve skills through further instruction and practice.  THR 19 — Theatrical Costuming G U(May be taken two times for credit) G hours lecture S4 hours lab Theatrical costuming design and construction. Includes the study of costume history, principles of costume design, fibers and textiles, basic costume construction, and design rendering techniques. Costume crew assignments for major productions will provide practical instruction in actual performance demands on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television, | productions. Includes basics of linear, episodic, 'A'-'B' and ritual structures.  THTR 60 — Children's Theatre 2 Units Degree Applicable, CSU (May be taken four times for credit) (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) 108 hours lab 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 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, |

| Not Degree Applicable<br>May be taken for option of letter grade or Pass/No Pass)<br>8 hours lecture<br>ntroduction to tutoring, with an emphasis on tutoring strategies,<br>roblem solving, and working with a diverse student population.<br><b>TUTR 10B — Tutoring in the English Language</b><br><b>1 Unit</b>                                                                                                                                                                                                                                                                                                                                                        | WATR 60 — Introduction to Water Systems 3 Units<br>Degree Applicable<br>54 hours lecture<br>Water sources, hydrological cycle, pre-treatment, water mathematics,<br>basic water chemistry, treatment plant processes, safety, disinfection,<br>corrosion, bacteriology and the public health aspects of potable water.<br>Distribution systems, wells, valves and pumps. Prepares the student for<br>Grade I and II State Water Treatment Operator Certification and Grade I | WATR 65 — Water Hydraulics and Instrumentation 3 Units<br>Degree Applicable<br>54 hours lecture<br>Advisory: WATR 60 taken prior<br>Practical water supply hydraulics and instrumentation, with emphasis<br>on distribution system capacity, hydraulic analysis, pumping analysis,                                                                                                                                                                                                                       |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AWWA Water Distribution Operator Certification.                                                                                                                                                                                                                                                                                                                                                                                                                              | customer service lines and meters, automation, instrumentation and control, system maintenance and records.                                                                                                                                                                                                                                                                                                                                                                                              |
| May be taken for option of letter grade or Pass/No Pass)<br>8 hours lecture<br><i>rerequisite: Eligibility for ENGL 1A</i><br>utoring in the English language with an emphasis on approaches to<br><i>rorking with students on written drafts and addressing the needs of</i><br>on-native speakers.<br><b>TUTR 10C — Tutoring as a Supplemental Instructor</b><br>Degree Applicable                                                                                                                                                                                                                                                                                      | WATR 61 — Water Treatment 3 Units                                                                                                                                                                                                                                                                                                                                                                                                                                            | WELDING         WELD 30 — Metal Sculpture       2 Units         Degree Applicable, CSU       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. |
| May be taken for option of letter grade or Pass/No Pass)<br>8 hours lecture<br>rerequisite: Eligibility for ENGL 1A<br>utoring as a Supplemental Instructor with an emphasis on tutoring in<br>the classroom and in small groups under the supervision of a<br>esignated instructor.<br><b>I TUTR 10D — Tutoring in Mathematics</b><br><b>1 Unit</b><br>Not Degree Applicable<br>May be taken for option of letter grade or Pass/No Pass)<br>8 hours lecture<br>rerequisite: MATH 71 or higher<br>utoring in mathematics with an emphasis on strategies to promote<br>ctive learning using manipulatives and dealing with specific obstacles<br>in developmental algebra. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ul> <li>WELD 40 — Introduction to Welding 2 Units<br/>Degree Applicable, CSU</li> <li>18 hours lecture</li> <li>54 hours lab</li> <li>Fundamentals of welding processes related to the areas of fabrication,<br/>construction, machine tool, aerospace and the transportation industries.</li> <li>WELD 50 — Oxyacetylene Welding 2 Units<br/>Degree Applicable</li> </ul>                                                                                                                              |

# **Course Descriptions**

| <ul> <li>WELD 51 — Basic Electric Arc Welding 2 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> <li>54 hours lab<br/>Advisory: WELD 50</li> <li>Basic electric arc welding, weld symbols, standard electrode and alloy<br/>electrode selection, American Welding Society (A.W.S.) procedure for<br/>certification.</li> <li>WELD 53A — Welding Metallurgy 3 Units<br/>Degree Applicable, CSU</li> <li>54 hours lecture</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul> <li>WELD 70C — Certification for Welders 3 Units<br/>Degree Applicable</li> <li>18 hours lecture</li> <li>108 hours lab</li> <li>Advisory: WELD 70A taken prior</li> <li>Study of building construction for the advanced arc welding student.</li> <li>Special emphasis will be placed on welding symbols and the American</li> <li>Welding Society's (AWS) D1.1 and D1.3.</li> <li>WELD 80 — Construction Fabrication and Welding 3 Units</li> <li>Degree Applicable</li> <li>18 hours lecture</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | WELD 90B — Semiautomatic Arc Welding Process 3 Units<br>Degree Applicable, CSU<br>(May be taken for option of letter grade or Pass/No Pass)<br>18 hours lecture<br>108 hours lab<br><i>Advisory: WELD 70B taken prior</i><br>An integrated review of Semiautomatic Welding Processes including Gas<br>Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged<br>Arc Welding (SAW) with solid and tubular wires with and without gas<br>shielding. All position welds with many varying thickness will be<br>covered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Designed for students seeking a career in welding and welding<br>inspection. Covers structure of matter, chemical, physical, and<br>mechanical properties of metals, principles of alloying, solid state<br>diffusion, plastic deformation, and heat treatment.<br><b>I WELD 60 — Print Reading and Computations for Welders 3 Units</b><br>Degree Applicable<br>54 hours lecture<br>Reading prints and performing computations for welding fabrication<br>operations. Interpreting and visualizing prints, title blocks, welding<br>symbols, specifications, notes, and bills of materials. Computations<br>necessary to calculate materials, costs, sizes, and fractional, decimal and<br>metric conversions.<br><b>I WELD 70A — Beginning Arc Welding</b><br>18 hours lecture<br>108 hours lab<br>Develops manipulative skills and techniques for the beginning student<br>welder on the shield metal arc (SMAW) and the flux cored arc (FCAW)<br>welding processes in the flat and horizontal positions using AC and DC<br>welding currents on carbon steel.<br><b>I WELD 70B — Intermediate Arc Welding</b><br>18 hours leb<br>18 hours lab<br>Advisory: WELD 70A taken prior<br>A continuation of Beginning Arc Welding (WELD 70A). Emphasis is on<br>welding high alloy steel with both SMAW and FCAW processes in the<br>vertical and overhead positions. Designed to refine previously acquired<br>welding skills. | <ul> <li>108 hours lab</li> <li>Advisory: WELD 40, WELD 51, WELD 70A</li> <li>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.</li> <li>WELD 81 — Pipe and Tube Welding 3 Units Degree Applicable</li> <li>18 hours lecture</li> <li>108 hours lab</li> <li>Advisory: WELD 70B, WELD 70C</li> <li>Welding in all positions as applied to the pipe industry. Welding processes include shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW) using a variety of materials and configurations on subcritical and critical piping and tubing.</li> <li>WELD 90A — Gas Tungsten Arc Welding 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass)</li> <li>18 hours lab</li> <li>Advisory: WELD 70B taken prior</li> <li>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.</li> </ul> | WELD 91 — Automotive Welding, Cutting and<br>Modification       3 Units         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<br>in the automotive industry. Gas Metal Arc (MIG), Gas Tungsten Arc<br>(GTAW), Plasma Arc cutting and oxyfuel cutting and welding will be<br>covered.         WELD 96 — Work Experience in Welding       1 to 4 Units<br>Degree Applicable         (May be taken four times for credit)       (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<br>in the college catalog.       Advisory: WELD 70B         Provides actual on-the-job experience in welding at an approved work<br>site which is related to classroom instruction. A minimum of 75 paid or<br>60 non-paid clock hours per semester of supervised work is required for<br>each unit of credit. Students who repeat this course will improve skills<br>through further instruction and practice. |



# section eleven

**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, Adult Basic Education (*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 Adult Basic Education 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

Adult Basic Education students are assessed prior to enrolling in courses. Additional assessments are available for specific needs. Adult Basic Education assessment services include testing for academic skill levels, learning strengths, career paths and learning disabilities. For more information, contact (909) 274-4845.

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) 274-5235.

# Orientation

Adult Basic Education 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, Building 40, room 104, 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 Adult Basic Education Center. To schedule an individual appointment, students should call the Continuing Education Center, (909) 274-4845. The Adult Basic Education 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 Building 40, room 104. 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 214 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, Building 40, room 104 to initiate the issuance of a certificate.

# Adult Basic Education and Special Programs

The Adult Basic Education 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 Adult Basic Education and Special Programs, contact (909) 274-4845.

# 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) 274-5235.

# 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) 274-4580.

# **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 Building 40, room 104, or in the Wellness Center. For more information, contact (909) 274-4625.

\*Note: Although courses are designed for the older adult, anyone 18 years of age and older may enroll.

# 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) 274-4838.

# 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 Mt. SAC credit and noncredit health career students. 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.

Registration is limited to students enrolled in Mt. SAC credit and

noncredit health occupations programs.

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

# **Continuing Education Division**

- Long-Term and Acute Certified Nursing Assistant (C.N.A.)
- IV Therapy, CPR
- 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) 274-4192.

# **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)
- 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) 274-4220.

**Certificates of Competency** 

# NONCREDIT LIST OF CERTIFICATES

# 

# Certificates in Occupational Training

| Accounting                        | 214 |
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| Electronic Assembly and Fabrication             |     |
| Electronic Systems Technology – Level 1         |     |
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| Office Technology                                     |     |
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| Photographics                                         |     |
| Computer Graphics Design / Photography                |     |
| Photography                                           |     |
| Welding Technologies                                  |     |
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| Welder with Concentration in Gas Tungsten ARC Welding |     |
| Welder with Concentration in Semiautomatic            |     |
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# **CERTIFICATES OF COMPETENCY**

Noncredit Certificates of Competency represent sequences of courses in Basic Skills, Career Development, English as a Second Language or Secondary Education, which allow the student to develop individual competencies based on their personal educational goals and objectives. Each certificate is unique, but all provide the student an opportunity to gain skills necessary to advance in their careers, 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** #24058

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) 274-4845.

#### **Certificate Requirements:**

| Course ID | Course Title                                        |
|-----------|-----------------------------------------------------|
| 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                    |

#### **Career Development** #24060

ESL WRTE Career development provides students with information and ESL WRTO guidance on college opportunities, careers and life planning. Students can apply skills gained to their current employment ESL LANG and personal lives and will improve their opportunities to BS LANG<sup>2</sup> advance in their careers or transition into a new career. This ESL VHLT sequence of courses is offered days and evenings to

# accommodate adults with alternating schedules. For more information, please call (909) 274-4845.

#### Certificate Requirements: Course

| Course ID | Course Title                                         |
|-----------|------------------------------------------------------|
| BS ABE01  | Career Information and Guidance                      |
| BS ABE02  | Adult Basic Education                                |
| BS ABE03  | Adult Basic Education – Leadership<br>Development    |
| BS ABE04  | Guidance and Orientation to Special<br>Programs      |
| BS ABE05  | Career Development                                   |
| BS ABE06  | Basic Skills Foundation                              |
| BS ABE07  | Re-Entry Work Skills Needed for Today's<br>Workforce |
| BS CNSL5  | Career/Life Planning                                 |
|           |                                                      |

#### **English as a Second Language** #24054

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) 274-5235.

#### Certificate Requirements:

| 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<br>Professionals |

# **ESL Beginning Level** #30375

ESL students are placed within the following sequence of beginning courses according to their English abilities. Students progress through this sequence based on individual need before transitioning into intermediate 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) 274-5235.

#### Certificate Requirements:

| Course ID         | Course Title      |
|-------------------|-------------------|
| ESL PLVL1         | ESL – Pre-Level 1 |
| ESL LVL1          | ESL – Level 1     |
| ESL LVL2          | ESL – Level 2     |
| ELective Courses: |                   |

| ESL SPKA  | ESL — Speaking A                     |
|-----------|--------------------------------------|
| ESL WRTA  | ESL – Writing A                      |
| ESL LANG2 | ESL Computer and Language Skills Lab |
| ESE LANGZ | ESE Computer and Language Skills Lat |

#### **ESL Intermediate Level** #30374

ESL students are placed within the following sequence of beginning courses according to their English abilities. Students progress through this sequence based on individual need before transitioning into intermediate 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) 274-5235.

#### Certificate Requirements:

| Course ID | <b>Course Title</b> |
|-----------|---------------------|
| ESL LVL3  | ESL – Level 3       |
| ESL LVL4  | ESL – Level 4       |

# **ELective Courses:**

| ESL SPKA  | ESL – Speaking B                     |
|-----------|--------------------------------------|
| ESL WRTA  | ESL – Writing B                      |
| ESL LANG2 | ESL Computer and Language Skills Lab |

# ESL Advanced Level #30376

ESL students are placed within the following sequence of beginning courses according to their English abilities. Students progress through this sequence based on individual need before transitioning into intermediate 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) 274-5235.

#### Certificate Reauirements:

| Course ID | <b>Course Title</b> |
|-----------|---------------------|
| ESL LVL5  | ESL – Level 5       |
| ESL LVL6  | ESL – Level 6       |

| <b>ELective Courses</b> | 5:                                   |
|-------------------------|--------------------------------------|
| ESL SPKA                | ESL — Speaking C                     |
| ESL WRTA                | ESL — Writing C                      |
| ESL LANG2               | ESL Computer and Language Skills Lab |
| ESL LAND3               | English for special uses             |
| ESL TOEFL               | TOEFL Preparation                    |
| ESL VHLTH               | ESL for Health Professionals         |

#### **GED** Preparation **#PENDING**

Improve the academic skills needed for passing the General Education Development (GED) exam. Math, reading, writing, science and social studies. Progress in a sequence based on individual need. For more information, please call (909) 274-4845.

#### **Certificate Requirements:**

| Course ID | Course Title                            |
|-----------|-----------------------------------------|
| BS GEDMA  | GED Preparation: Mathematics            |
| BS GEDRD  | GED Preparation: Language Arts, Reading |
| BS GEDSC  | GED Preparation: Science                |
| BS GEDSS  | GED Preparation: Social Studies         |
| BS GEDWR  | GED Preparation: Science                |

# **Secondary Education** #24213

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) 274-4845.

#### **Certificate Requirements:**

BSHS SOC

CONTINUING EDUCATION

| Course ID | Course Title                            |
|-----------|-----------------------------------------|
| 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        |
| 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 KEY  | High School Typing/Keyboarding          |
| BSHS LSC  | High School Life Science                |
| BSHS MUSC | High School Music Appreciation          |
| BSHS NS1  | High School Natural Science 1           |
| 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                |
| DCULC COC |                                         |

| BSHS SPN1        | High School Spanish 1             |
|------------------|-----------------------------------|
| BSHS SPN2        | High School Spanish 2             |
| BSHS TAL2        | High School Topics in Algebra 2   |
| BSHS TGEO        | High School Topics in Geometry    |
| BSHS USHS        | High School United States History |
| BSHS WHS         | High School World History         |
| <b>BSHS WREX</b> | 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 Technician
- RN Re-Entry into Practice

Specific certificate content and more information can be found in the Community Services Schedule of Classes each semester or contact (909) 274-4220.

#### 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.

#### Getting Help

For more information regarding occupational training certificates, please call the Division office at (909) 274-4220. 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, Building 40, room 104. Times will be posted and students served on a first-come, first-served basis. Advisers are also available by appointment during the semester. Please call (909) 274-4845 to schedule an appointment.

#### **OCCUPATIONAL – ACCOUNTING**

#### Accounting – Bookkeeping #24089

The Bookkeeping Certificate provides the student with the basic skills and knowledge for entry-level positions within the clerical/accounting field. Common duties performed in this field are posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis. The sequence can be completed in one year, and courses are offered Fall and Spring semesters.

# **Certificate Requirements:**

| Course ID | Course Title                                    |
|-----------|-------------------------------------------------|
| /OC BA07  | Principles of Accounting – Financial, <u>or</u> |
| /OC BA72  | Bookkeeping – Accounting                        |
| /OC BA53  | Ten-Key Calculations                            |
| /OC B005  | Business English, <u>or</u>                     |
| /OC B025  | Business Communications                         |
|           |                                                 |

#### Accounting – Computerized #24246

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 CSB31 | Microsoft Word                                |

#### Accounting – Payroll #24074

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 C | ourse T | itle |
|-------------|---------|------|
|-------------|---------|------|

| VOC BA70 | Payroll and Tax Accounting                              |
|----------|---------------------------------------------------------|
| VOC BS75 | Using Microcomputers in Financial Accounting, <i>or</i> |
| VOC BA76 | Using Microcomputers in Managerial<br>Accounting        |
|          | necounting                                              |

#### **OCCUPATIONAL – AGRICULTURAL** SCIENCE

# **Floral Design** #24242

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** #24340

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 Title                          |
|-----------|---------------------------------------|
| VOC AGN02 | Animal Nutrition                      |
| VOC AGN94 | Animal Breeding                       |
| VOC AGL16 | Horse Production, <u>or</u>           |
| 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 #24342

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:**

| 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 | Landscaping and Nursery Management                |
| VOC AGR62 | Landscape Irrigation – Design and<br>Installation |
| VOC AGR64 | Landscape Irrigation — Drip and Low<br>Volume     |

#### Landscape and Park Maintenance #24113

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: |                                |       |  |
|---------------------------|--------------------------------|-------|--|
| 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 Woody<br>Shrubs  |
|-----------|------------------------------------------------|
| VOC AGR39 | Turf Grass Production and Management           |
| VOC AGR40 | Sports Turf Management                         |
| VOC AGR51 | Tractor and Landscape Equipment<br>Operations  |
| VOC AGR62 | Landscape Irrigation – Design and Installation |
| VOC AGR63 | Landscape Irrigation System<br>Management      |
| VOC AGR71 | Landscape Construction Fundamentals            |

# Landscape Design and Construction #24248

This certificate is designed to give students basic skills needed in employment with a landscape contractor. Employment potential is very good.

#### **Certificate Requirements:**

| Course Title<br>Horticultural Science          |
|------------------------------------------------|
| Landscape Design                               |
| Ornamental Plants – Herbaceous                 |
| Ornamental Plants – Trees and Woody Shrubs     |
| Soil Science and Management                    |
| Tractor and Landscape Equipment<br>Operations  |
| Landscape Irrigation – Design and Installation |
| Landscape Construction Fundamentals            |
| Landscape Hardscape Applications               |
|                                                |

#### Landscape Equipment Technology #24111

This certificate is designed to give students basic skills to seek employment in equipment repair, golf courses, rental yards and small equipment repair shops.

#### Certificate Requirements:

| Course ID | Course Title                                  |
|-----------|-----------------------------------------------|
| VOC AGR01 | Horticultural Science                         |
| VOC AGR51 | Tractor and Landscape Equipment<br>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 #24088

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**

| course in | course mile                                   | VUC AGRUT |
|-----------|-----------------------------------------------|-----------|
| VOC AGR01 | Horticultural Science                         | VOC AGR02 |
| VOC AGR13 | Landscape Design                              |           |
| VOC AGR39 | Turf Grass Production and Management          | VOC AGR24 |
| VOC AGR50 | Soil Science and Management                   | VOC AGR29 |
| VOC AGR51 | Tractor and Landscape Equipment<br>Operations | VOC AGR30 |
| VOC AGR62 | Landscape Irrigation – Design and             | VOC AGR32 |
|           | Installation                                  | VOC AGR39 |
| VOC AGR63 | Landscape Irrigation System<br>Management     | VOC AGR62 |
| VOC AGR64 | Landscape Irrigation – Drip and Low Volume    | VOC AGR64 |
| VOC AGR71 | Landscape Construction Fundamentals           |           |

# Livestock Management #24057

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:**

VOC BS36

| ,<br>Course ID                            | Course Title                             | Course ID |
|-------------------------------------------|------------------------------------------|-----------|
| VOC AGG01                                 | Food Production, Land Use and Politics – | VOC AGR01 |
|                                           | a Global Perspective                     | VOC AGR04 |
| VOC AGN01                                 | Animal Science                           | VOC AGR05 |
| VOC AGN02                                 | Animal Nutrition                         | VOC AGR24 |
| VOC AGN94                                 | Animal Breeding                          | VOC AGR30 |
| VOC AGL14                                 | Swine Production                         |           |
| VOC AGL16                                 | Horse Production                         | VOC AGR39 |
| VOC AGL17                                 | Sheep Production                         | VOC AGR51 |
| VOC AGL30                                 | Beef Production                          |           |
| VOC AGL34                                 | Livestock Judging and Selection          | VOC AGR62 |
| VOC AGL96                                 | Animal Sanitation and Disease Control    | NOCACDCO  |
| Plus select 2 courses from the following: |                                          | VOC AGR63 |
| VOC AGR71                                 | Landscape Construction Fundamentals      | VOC AGR75 |
| VOC BM20                                  | Principles of Business                   | Tochanis  |
| VOC BM66                                  | Small Business Management                |           |
| VOC BS35                                  | Professional Selling                     |           |

Principles of Marketing

# **Nursery Management** #24209

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<br>Shrubs                                                                                                                         |  |  |
| VOC AGR32                            | Landscaping and Nursery Management                                                                                                                                    |  |  |
| VOC AGR39                            | Turf Grass Production and Management                                                                                                                                  |  |  |
| VOC AGR62                            | Landscape Irrigation – Design and<br>Installation                                                                                                                     |  |  |
| VOC AGR64                            | Landscape Irrigation — Drip and Low<br>Volume                                                                                                                         |  |  |
| Park Management<br>#24374            |                                                                                                                                                                       |  |  |
| for a career in p<br>with hands-on o | s designed to enable students to prepare<br>ark management, and provides students<br>experience, designed to give them a<br>practical skills and technical knowledge. |  |  |
| Certificate Requ                     | Certificate Requirements:                                                                                                                                             |  |  |
| Course ID                            | Course Title                                                                                                                                                          |  |  |
| VOC AGR01                            | Horticultural Science                                                                                                                                                 |  |  |
| VOC AGR04                            | Park Management                                                                                                                                                       |  |  |
| VOC AGR05                            | Park Facilities                                                                                                                                                       |  |  |

Integrated Pest Management

Shrubs

Operations

Installation

Management

Urban Arboriculture

Ornamental Plants – Trees and Woody

Turf Grass Production and Management

Tractor and Landscape Equipment

Landscape Irrigation – Design and

Landscape Irrigation System

#### Pet Science #24172

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                           |
|-----------|----------------------------------------|
| 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 #24075

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<br>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<br>Operations  |
| VOC AGR62 | Landscape Irrigation – Design and Installation |
| VOC AGR63 | Landscape Irrigation Systems<br>Management     |
|           |                                                |

# Tree Care and Maintenance #24215

This certificate is designed to give students basic skills in the repair and maintenance of trees.

# Certificate Requirements:

| Course ID | Course Title                                  |
|-----------|-----------------------------------------------|
| VOC AGR01 | Horticultural Science                         |
| VOC AGR24 | Integrated Pest Management                    |
| VOC AGR30 | Ornamental Plants – Trees and Woody<br>Shrubs |
| VOC AGR32 | Landscape and Nursery Management              |
| VOC AGR50 | Soil Science and Management                   |
| VOC AGR51 | Tractor and Landscape Equipment<br>Operations |
| VOC AGR53 | Small Engine Repair 1                         |
| VOC AGR75 | Urban Aboriculture                            |
|           |                                               |

#### OCCUPATIONAL – BUSINESS MANAGEMENT

#### Business Management – Level 1 #24108

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 Management |
| VOC BS36  | Principles of Marketing              |

#### Business Management – Level 2 #24110

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 Title                |
| Human Relations in Business |
| Human Resource Management   |
| Microcomputer Applications  |
|                             |

# Business Management – Level 3 #24249

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 Requirements:

Completion of: Business Management – Level 1 Business Management – Level 2

#### PLUS the following:

| Course ID | Course Title                                    |
|-----------|-------------------------------------------------|
| VOC BA07  | Principles of Accounting – Financial            |
| VOC BM10  | Principles of Continuous Quality<br>Improvement |
| VOC BM51  | Principles of International Business            |

# Human Resource Management #24320

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: Course ID Course Tit

VOC

VOC

VOC

| rse ID | Course Title                         |
|--------|--------------------------------------|
| BM20   | Principles of Business               |
| BM61   | Business Organization and Management |
| BM62   | Human Resource Management            |

# International Business – Level 1 #24107

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 Requirements:

| Course ID | Course Title                         |
|-----------|--------------------------------------|
| VOC BM20  | Principles of Business               |
| VOC BM51  | Principles of International Business |
| VOC BS36  | Principles of Marketing              |

# International Business – Level 2 #24431

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:

VOC BS70

#### Course ID Course Title

- VOC BM61 Business Organization and Management
- VOC BM66 Small Business Management
  - International Marketing Concepts

# **Retail Management – Level 1** #24418

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 BO25  | Business Communications                                   |
| VOC CSB15 | Microcomputer Applications                                |
| VOC FSH62 | Retail Store Management and<br>Merchandising              |
| VOC BS50  | <u>or</u><br>Retail Store Management and<br>Merchandising |

# **Retail Management – Level 2** #24359

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 followina:

| 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** #24383

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 #24035

Small business has been described as the engine of change within the economy. The Small Business Management – Level 1 Certificate exposes the student to the fundamentals of managing and planning a small business. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management, Courses are offered on an annual basis, and each level of Small Business Management emphasis can be completed in one semester.

# **Certificate Requirements:**

| Course ID | Course Title              |
|-----------|---------------------------|
| VOC BM20  | Principles of Business    |
| VOC BM66  | Small Business Management |
| VOC BS36  | Principles of Marketing   |

# Small Business Management -Level 2

# #24034

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 following:**

| Course ID | Course Title                |
|-----------|-----------------------------|
| VOC BM60  | Human Relations in Business |
|           |                             |

| VUC DIVIOU |                                      |
|------------|--------------------------------------|
| VOC BM61   | Business Organization and Management |
| VOC BM62   | Human Resource Management            |
|            |                                      |

# Small Business Management -Level 3

# #24034

Upon completion of the Small Business Management -Level 3 certificate, students will have built a foundation or 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 business career.

# **Certificate Requirements:**

| Completion of:                             |  |
|--------------------------------------------|--|
| Small Business Management – Levels 1 and 2 |  |

# **PLUS the following:**

| Course ID | Course Title                                          |
|-----------|-------------------------------------------------------|
| VOC BA07  | Principles of Accounting – Financial                  |
| VOC BM10  | Principles of Continuous Quality<br>Improvement (CQI) |
| VOC CSB15 | Microcomputer Applications                            |

#### **OCCUPATIONAL – ELECTRONICS**

#### **Computer and Networking** Technology – Level I #24059

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 Microcomputers |
|           | <u>or</u>                                |
| VOC CSB15 | Microcomputer Applications               |
| VOC EL50A | Electronic Circuits (DC)                 |
| VOC EL50B | Electronic Circuits (AC)                 |
| VOC EL56  | Digital Electronics                      |
|           |                                          |

# **Computer Systems Technology** #24284

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 Microcomputers |
| 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 #24162

This certificate prepares students to enter the electronics field as assembly and fabrication technicians.

#### **Certificate Requirements:**

| Course ID | Course Title                                       |
|-----------|----------------------------------------------------|
| VOC EL50A | Electronic Circuits (DC)                           |
| VOC EL50B | Electronic Circuits (AC)                           |
| VOC EST50 | Electrical Fundamentals for Cable<br>Installations |
| VOC EL61  | Electronic Assembly and Fabrication                |
| VOC EL62  | Advanced Surface Mount Assembly and<br>Rework      |

#### **Electronic Systems Technology –** Level 1 #24363

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:**

| Course ID             | Course Title                                                          |
|-----------------------|-----------------------------------------------------------------------|
| VOC EST50             | Electrical Fundamentals for Cable<br>Installations                    |
| VOC EST52             | Fabrication Techniques for Cable<br>Installations                     |
| VOC EST54             | Cabling and Wiring Standards                                          |
| VOC EL11<br>VOC CSB15 | Technical Applications in Microcomputer<br>Microcomputer Applications |
|                       |                                                                       |

#### Electronic Systems Technology – Level 2 #24416 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 Reauirements:** Completion of: Electronic Systems Technology – Level 1 PLUS the followina:

| i Los the following. |                                                |
|----------------------|------------------------------------------------|
| Course ID            | Course Title                                   |
| VOC EST56            | Home Theater and Home Automation<br>Systems    |
| VOC EST62            | Electronic Troubleshooting – 1                 |
| VOCTCH60             | Customer Relations for the Technician          |
| VOC EST64            | Electronic Troubleshooting – 2                 |
| VOC EST70            | C-7 Low Voltage Systems License<br>Preparation |
| VOC EL61             | Electronic Assembly and Fabrication            |
| VOC EL62             | Advanced Surface Mount Assembly and Rework     |
|                      | Rework                                         |

#### **Electronic Technology** #24073

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 Microcomputers 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 TCH60 Customer Relations for the Technician

# Electronics and Computer – **Engineering Technology** #24171

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

| 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                   |
| VOC TCH60              | Customer Relations for the Technician    |
| Recommended Electives: |                                          |
| VOC EDT11              | Technical Engineering Drawing I          |
| MOG EL CO              |                                          |

| VOC EDT11 | Technical Engineering Drawing I     |
|-----------|-------------------------------------|
| VOC EL62  | Advanced Surface mount Assembly and |
|           | Rework                              |
| VOC EL76  | Radio Telephone Communications      |

# **Electronics Communications** #24210

This certificate encompasses advanced coursework in electronics communications including both land-based and wireless forms of communication.

# 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 EL55  | Microwave Communications              |
|-----------|---------------------------------------|
| VOC EL56  | Digital Electronics                   |
| VOC EL61  | Electronics Assembly and Fabrication  |
| VOC TCH60 | Customer Relations for the Technician |

#### Industrial Electronics #24319

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 Requirements:**

| Course ID | Course Title                               | Hours  |
|-----------|--------------------------------------------|--------|
| VOC EL11  | Technical Applications in Microcom         | puters |
| VOC EL12  | Computer Simulation and<br>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 Fabricatio        | n      |
| VOC TCH60 | Customer Relations for the Technicia       | an     |

#### **OCCUPATIONAL – HEALTH CAREERS**

# **Certified Nursing and Acute Care** Nursing Assistant

#### #24400 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) 274-4788.

# Health Care Interpreting #24056

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, HCI candidates will learn:

- Roles and responsibilities of an interpreter in health care settings.
- Basic knowledge of common medical conditions, treatments, and procedures.
- Language and cultural nuances for specific healthcare consumers and providers.
- Application of interpreting skills in English and Spanish or Mandarin.

The program begins each Fall semester and includes coursework, independent lab study, and a 6-week unpaid internship within a local healthcare facility. Certification is awarded after completion of the internship. Classes are arranged for the working student, and are scheduled evenings and Saturdays. A cohort of students is admitted each fall semester and completes the certificate at the end of the following Summer Intersession.

# Certificate Requirements:

| (Successful completion of all courses listed below) |                                                                              |  |
|-----------------------------------------------------|------------------------------------------------------------------------------|--|
| Course ID                                           | Course Title                                                                 |  |
| ESL VHLTH                                           | English for Health Professionals                                             |  |
| (if determined ne                                   | ecessary 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 co                                    | baching sessions and 3hrs/wk arranged in<br>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) 274-5236.

#### OCCUPATIONAL – MANUFACTURING TECHNOLOGY

#### Manufacturing Technology #24070

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:

| 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<br>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<br>Control) Operations |
| PLUS – Select 2 | courses from the following:                               |
| VOC MF25        | Advanced Parametric Solid Modeling for<br>Manufacturing   |
| VOC MF27        | AutoDesk Inventor                                         |
| VOC WL40        | Introduction to Welding                                   |

#### MasterCAM #24212

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:* Course ID Course Title

| VOC MF11  | Manufacturing Processes I |
|-----------|---------------------------|
| VOC MF38  | MasterCAM I               |
| VOC MF38B | Advanced MasterCAM        |

#### Parametric Solid Modeling #24251

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 Title                                   |  |  |
|------------------------------------------------|--|--|
| AutoCAD 2D                                     |  |  |
| 3-D CAD – Mechanical Modeling                  |  |  |
| Parametric Solid Modeling for<br>Manufacturing |  |  |
| Advanced Mechanical Desktop                    |  |  |
| AutoDesk Inventor                              |  |  |
|                                                |  |  |

# SurfCAM

#24178

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 Course Tit

| Course ID | Course Title                                              |
|-----------|-----------------------------------------------------------|
| VOC MF11  | Manufacturing Processes I                                 |
| VOC MF39  | SurfCAM I                                                 |
| VOC MF39B | SurfCAM II                                                |
| VOC MF85  | Manual CNC (Computerized Numerical<br>Control) Operations |
| VOC MF39B | SurfCAM II<br>Manual CNC (Computerized Numer              |

#### OCCUPATIONAL – OFFICE TECHNOLOGY

# Administrative Assistant – Level I #24061

Prepares students for entry-level clerical positions where keyboarding is the primary function.

#### Certificate Requirements:

| Course ID | Course Title                    |
|-----------|---------------------------------|
| VOC B005  | Business English                |
| VOC CS11  | Computer Keyboarding OR         |
| VOC CS11A | Computer Keyboarding AND        |
| VOC CS11B | Computer Keyboarding            |
| VOC CP12  | Office Computer Applications OR |
| VOC CSB15 | Microcomputer Applications      |
| VOC CS41  | Office Management Skills        |
|           |                                 |

#### Administrative Assistant – Level 2 #24066

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 BO25  | Business Communications            |
| VOC CS15  | Intermediate Computer Keyboarding  |
| VOC CSB31 | Word for the Business Professional |
|           | <u>or</u>                          |
| VOC CS41  | Transcription Techniques           |

#### **Data Entry** #24287

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 CS15  | Intermediate Computer Keyboarding |
| VOC CP12  | Office Computer Applications      |
|           | <u>or</u>                         |
| VOC CSB15 | Microcomputer Applications        |
| VOC CS21  | Data Entry                        |

#### **Office Computer Applications** #24401

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. Cortificato Poquiromonto

| Certificate Reguirements: |                                     |
|---------------------------|-------------------------------------|
| 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                  |

# **OCCUPATIONAL – PHOTOGRAPHICS**

#### **Computer Graphics Design / Photography** #24402

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.

#### **Certificate Requirements:**

| Course ID | Course Title               |
|-----------|----------------------------|
| VOC GRP1  | Computer Graphics Lab      |
| VOC GRP10 | Photoshop Imagery          |
| VOC GRP12 | Photoshop Imagery Extended |
| VOC GRP14 | Digital Color Management   |
| VOC GRP16 | Illustrator Graphics       |

#### VOC GRP20 **Multimedia Graphics** VOC GRP28 **Digital Portfolio** VOC PH010 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 CSB16 Operating the Macintosh Computer VOC GRP18 3D Graphic Imagery Laboratory Studies: Black and White VOC PHO01 Photography VOC PHO02 Laboratory Studies: Color Photography
- VOC PHO04 **Digital Cameras and Composition**

#### Photography #24245

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 Reauirements:**

#### **Course Title** Course ID

| course is     | course mare                                                                |
|---------------|----------------------------------------------------------------------------|
| VOC GRP10     | Photoshop Imagery                                                          |
| VOC PH010     | Basic Digital and Film Photography                                         |
| VOC PH011     | Advanced Professional Photography                                          |
| VOC PH012     | Photographic Alternatives                                                  |
| VOC PH021     | Exploring Color Photography                                                |
| VOC PH016     | Fashion Photography                                                        |
| VOC PH018     | Portraiture and Wedding Photography                                        |
| VOC PH017     | Photocommunication                                                         |
| VOC PHO20     | Color Photography                                                          |
| VOC PH028     | Photography Portfolio Development                                          |
| VOC PHO30     | Commercial and Illustrative Photography                                    |
| Recommended L | Electives:                                                                 |
| 5 1           | cs faculty recommends that you<br>r studies with selected elective courses |
|               |                                                                            |

listed below. You should meet with a professor of Computer Graphics Design/Photography to help you determine which electives would best suit your career plans. VOC GRP12 Advanced Photo Editing with Photoshop VOC PHO01 Laboratory Studies: Black and White

|           | Photography                           |
|-----------|---------------------------------------|
| VOC PHO02 | Laboratory Studies: Color Photography |
| VOC PH015 | History of Photography                |

#### **OCCUPATIONAL – WELDING** TECHNOLOGIES

# Welding

#### #24373

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 Requirements:

| Course ID | <b>Course Title</b> |
|-----------|---------------------|
|-----------|---------------------|

VOC WL40 Introduction to Welding VOC WL70A Beginning ARC Welding **Note:** Any higher level welding course may be substituted for VOC WLD 70A.

Intermediate ARC Welding VOC WL70B

#### **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 Print Reading and Computations for VOC WL60 Welders V0C WI 70C Certification for Welders

#### **Licensed Welder** #24223

This certificate is designed to prepare students for entrylevel employment as a licensed welder in the broad field of welding, including manufacturing, construction, fabrication and repair. Through theoretical and hands-on skills coursework, students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

#### **Certificate Requirements:** Course ID **Course Title** VOC WL40 Introduction to Welding VOC WL50 Oxvacetylene Welding VOC WL51

**Basic Electric Arc Welding** VOC WL53A Welding Metallurgy

| Print Reading and Computations for Welders |
|--------------------------------------------|
| Beginning Arc Welding                      |
| Intermediate Arc Welding                   |
| Certification for Welding                  |
| Fabrication and Construction Welding       |
| Pipe and Tube Welding                      |
|                                            |

#### Welder with Concentration in Automotive Welding, Cutting & Modification #24406

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** #24380

Preparation as a Licensed Welder with additional skills and theoretical development in gas tungsten ARC Welding.

#### Certificate Requirements:

Completion of: Licensed Welder Certificate

#### **PLUS the following:**

| Course ID  | Course Title             | Hours |
|------------|--------------------------|-------|
| VOC WLD90A | Gas Tungsten ARC Welding | 54    |

#### Welder with Concentration in Semiautomatic ARC Welding #24379

Preparation as a Licensed Welder with additional skills and theoretical development in Semiautomatic ARC Welding.

#### Certificate Reauirements: Completion of: Licensed Welder Certificate

#### PLUS the followina:

Course ID **Course Title** VOC WL90B Semiautomatic ARC Welding Process

#### NONCREDIT COURSE LISTINGS

# **Basic Skills**

| Adult Basic Education 225                                |
|----------------------------------------------------------|
| Adult Basic Education – Leadership Development 225       |
| Basic Skills Development – Reading & Writing 227         |
| Basic Skills Foundation 225                              |
| Career Development 225                                   |
| Career Information and Guidance 225                      |
| Career/Life Planning 225                                 |
| Developmental Mathematics – Concepts and Application 227 |
| Guidance and Orientation to Special Programs 225         |
| Re-Entry Work Skills Needed for Today's Workforce        |

# Basic Skills – GED Preparation

| GED Preparation: Mathematics            | 225 |
|-----------------------------------------|-----|
| GED Preparation: Language Arts, Reading | 225 |
| GED Preparation: Science                | 225 |
| GED Preparation: Social Studies         | 225 |
| GED Preparation: Language Arts, Writing | 225 |

# Basic Skills – Review

| Improving Reading Comprehension2 | 27 |
|----------------------------------|----|
| Improving Writing 2              | 27 |
| Language Skills Laboratory 2     | 27 |
| Learning Support Laboratory 2    |    |
| Math Skills Review 2             | 27 |
| Personal Computer Applications 2 | 27 |
| Reading Acceleration             | 27 |
| Short-Term Review                |    |

# Basic Skills – Secondary Education (High School)

| Academic Decathlon 225                |   |
|---------------------------------------|---|
| Algebra 1                             | ; |
| Algebra 2 225                         |   |
| Art and Creative Expression           | 5 |
| Art 2                                 | ; |
| 3iology                               | ; |
| CAHSEE Prep — English Language Arts   | 5 |
| CAHSEE Prep — Mathematics             | ; |
| Chemistry                             | ; |
| Chinese 1                             | ; |
| Civics/American Government            | ; |
| Computer Technology 225               | ; |
| Diploma and Referral Program Learning | ; |
| Earth Science                         | ; |
| Economics                             | ; |

| English 1                                          | 226 |
|----------------------------------------------------|-----|
| English 2                                          | 226 |
| English 3                                          |     |
| English 4                                          | 226 |
| Expository Writing                                 |     |
| Expository Writing and Critical Reading            |     |
| Geography                                          | 226 |
| Geometry                                           | 226 |
| Graphics/Printing, Advanced                        |     |
| Health Education                                   |     |
| Life Science                                       |     |
| Music Appreciation                                 |     |
| Natural Science 1                                  |     |
| Philosophy                                         |     |
| Physical Science                                   |     |
| Planning and Guidance                              |     |
| Pre-Algebra                                        |     |
| Psychology                                         |     |
| Study Skills                                       |     |
| Sociology                                          | 227 |
| Spanish 1 – Conversation and Writing               | 227 |
| Spanish 2                                          |     |
| Speech and Communication                           |     |
| Topics in Algebra 2                                |     |
| Topics in Geometry                                 |     |
| Typing/Keyboarding                                 |     |
| United States History                              |     |
| World History                                      | 227 |
| Basic Skills – Tutoring                            |     |
| All Subjects Tutoring                              |     |
| Tutoring Techniques                                |     |
|                                                    | 220 |
| Citizenship                                        |     |
| Citizenship for Naturalization                     | 228 |
| Disabled Students                                  |     |
| Adaptive Academic Preparation                      | 228 |
| Clinical Speech Instruction                        |     |
| High Tech Center Tutorial/Assistance Class         |     |
| Lifelong Learning for the Special Needs Population |     |
|                                                    | 220 |
| English as a Second Language (ESL)                 |     |
| English for Specific Uses                          |     |
| For Health Professionals                           |     |

| Levels 1-6 and Pre-Level 1         228           Speaking A , B and C         228           Writing A, B and C         228           TOEFL Prep         228                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational – Administrative Justice                                                                                                                                                                                                                                                                                                                                                                                                  |
| Administration of Justice Report Writing230Administration of the Justice System230Community Relations230Concepts of Criminal Law230Concepts of Enforcement Services230Concepts of Traffic Services230Legal Aspects of Evidence230Narcotics Investigation230Principles and Procedures of Justice System230Street Gangs and Law Enforcement230Vice Control230                                                                            |
| Occupational – Agricultural Science                                                                                                                                                                                                                                                                                                                                                                                                    |
| Animal Breeding230Animal Handling and Restraint230Animal Sanitation and Disease Control231Animal Science230Animal Nutrition230Artificial Insemination of Livestock231Aviculture – Cage and Aviary Birds232Beef Production231Canine Management232Diesel Engine Repair231Engine Diagnostics232Exotic Animal Management230Feline Management232Floral Design 1, 2 and 3231Food Production, Land Use and Politics – A Global Perspective230 |
| Home Gardening                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Horse Behavior and Training230Horse Hoof Care230Horse Ranch Management230Horse Production230Horticultural Science231Hydraulics231                                                                                                                                                                                                                                                                                                      |
| Interior Landscaping                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Integrated Pest Management                                                                                                                                                                                                                                                                                                                                                                                                             |

#### **NONCREDIT COURSE LISTINGS** (continued)

| Landscano Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Continuous Quality Improvement (COI) Principles of                                                                                                                                                                                                                                                                                                                                                                                                    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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# 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 ABE02 — Adult Basic Education

Improves basic skills of adult learners. Content includes reading comprehension, language, and mathematics. Prepares students for the General Education Development (GED) Exam and the Armed Services Vocational Aptitude Batter (ASVAB) exam.

#### 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 ABE04 — Guidance and Orientation to Special Programs

Provides an overview of special programs at Mt. San Antonio College. Information regarding the College's mission, program guidelines, regulations, and eligibility requirements are presented.

#### 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 ABE07 — Re-Entry Work Skills Needed for Today's Workforce

Development of skills necessary for employment. Topics include workplace ethics, job search techniques, resume writing and preparing for an interview.

# BS CNSL5 — Career/Life Planning

A systematic approach to self-exploration and career/life planning which includes: identification of values, interests, skills, and selfmanagement style. Development of decision-making and goal-setting skills and identification of barriers to success. Explores careers and job search techniques.

# BS GEDMA — GED Preparation: Mathematics

Improve mathematical knowledge and skills in preparation for the Math section of the General Education Development (GED) exam. Test areas include number operations, geometry, statistics and algebra.

# BS GEDRD — GED Preparation: Language Arts, Reading

Improve comprehension and reading knowledge and skills in preparation for the Language Arts: Reading section of the General Education Development (GED) exam. Poetry, fiction, nonfiction, drama, art reviews and workplace documents.

#### BS GEDSC — GED Preparation: Science

Improve scientific knowledge and skills in preparation for the Science section of the General Education Development (GED) exam. Test areas include physics, chemistry, life science, earth science and astronomy.

# BS GEDSS — GED Preparation: Social Studies

Improve historical knowledge in preparation for the social studies section of the General Education Development (GED) exam. Test areas include United States history, world history, geography, government and economics.

# BS GEDWR — GED Preparation: Language Arts, Writing

Improve organizational and grammatical knowledge and skills in preparation for the Language Arts: Writing section of the General Education Development (GED) exam. Test areas include paragraph organization, sentence structure, usage, grammar mechanics and essay development.

# 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 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 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 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 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 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 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 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 ELL01** — 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.

This class is for students with identified disabilities to utilize adaptive hardware and software in the High Tech Center that will assist them in succeeding in other courses. Through technology provided by the HTC, student will be given support, additional resources, assistance and strategies to succeed in their other classes. This class is designed as a transition or resource class for students eligible or nearing eligibility to advancement into other Mt. SAC courses.

# DSPS LRND3 — Adaptive Academic Preparation

Note: Students must see a Brain Injury Specialist in Disabled Student Programs and Services (DSP&S) and have acquired their injury after the age of 12 in order to be evaluated for the Brain Injury Program prior to registration for this class.

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.

# 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.

#### **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 ELL05 — 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 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 —Health Aging

Healthy aging, including diet, nutrition, disease prevention, and application of physical fitness principles to maintain health while aging.

**OAD MOX02** — **Healthy Aging** – **Principles of Tai Chi** Heath aging, including diet, nutrition, disease prevention, and application of Tai Chi principles to maintain health while aging.

**OAD MOX04** — Healthy Aging – Principles of Yoga Health aging, including diet, nutrition, disease prevention, and application of Yoga principles to maintaining health while aging.

**OAD MOX06** — **Healthy Aging** – **Principles of Aquatic Resistance** Healthy aging, including diet, nutrition disease prevention, and application of aquatic resistance principles to maintain health while aging.

#### 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.

#### 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-akind 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 stepby-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. **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 ADJ02 — 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 communityoriented 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 – Street Gangs and Law Enforcement

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 AGR02 — 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, 2-cycleengine, 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 aquarium fishes, plants and invertebrates. Includes guidance on setting up aquariums, 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, financial statement analysis, and statement of cash flows.

# 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 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 B005 — 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 B026 — 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 B005

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 B096A — 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.

# OCCUPATIONAL — COMPUTER INFORMATION SYSTEMS

#### VOC CS11 — Computer Keyboarding

Develops alpha and numeric keyboarding skills on a personal computer at a straight-clpy rate of 25 to 40 gross words with a predetermined error limit. Includes keyboarding of letters, tables and manuscripts. (Formerly VOC CP01)

# VOC CS11A — Computer Keyboarding

Develops basic alpha and numeric keyboarding with skills on a personal computer at a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit. (Formerly VOC CP01A)

#### VOC CS11B — Computer Keyboarding

Develops straight-copy keyboarding rate of 25-40 gross words a minute with an error limit; includes letters, tables and reports. (Formerly VOC CP11B)

#### VOC CS12 — Intermediate 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. Uses word processing software to format letters, memos, reports, tables and other related business documents. (Formerly VOC CP02)

# VOC CS21 — Data Entry

Data entry using a microcomputer. Includes 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. (Formerly VOC CP18)

#### VOC CS41 — 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. (Formerly VOC CP28)

#### 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.

#### VOC CSB16 — Macintosh Applications

Macintosh computer skills including the operating system and word processing, database, spreadsheet and multimedia applications. (Formerly VOC CP10)

#### VOC CSB31 — Microsoft Word

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. (Formerly VOC CP20)

#### VOC CSB51 — Microsoft PowerPoint

Using PowerPoint to plan, design and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation and movies. (Formerly VOC CP50)

#### VOC CSB61 — Desktop Publishing Software

Using desktop publishing software to integrate text and various graphic objects, design, edit and produce a variety of high-quality business publications. (Formerly VOC CP60)

#### VOC CSW15 — Web Site Development

Use of a professional visual Web-authoring application to plan, develop, implement, publish and maintain Web sites. Includes working with text and images, internal and external hyperlinks, image maps, tables, Cascading Style sheets, Web page content, Web forms, multimedia objects (Flash text, Flash buttons, sounds and video), interactions and behaviors, and Web page templates. Principles of Web site structures, documentation, management and maintenance will be discussed. (Formerly VOC CP13)

#### 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.

#### **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 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

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

AC circuit theory covering inductors, capacitors, impedance, filters, decibels, and resonance. Analysis involves the use of complex numbers. Stresses passive components.

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#### 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 Electronic 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.

# 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 gualifications.

#### 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; 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 Heartsaver CPR Level A Completion Card, renewable in two years.

#### VOC HTH01 — Certified Nursing Assistant

Prepares participant to work in a skilled nursing facility and pass California Long-Term Care CNA exam. Prerequisites:

- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA.ID card) and Social Security card

Co-requisite: Enrollment in VOC HLTH 05

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#### 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. Prerequisites:

- Documentation of completion of CNA Course and successful pass on CNA certification exam???
- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (ČA 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.

#### VOC HRM51 — Introduction to Hospitality

Brief review of the historical development of the hospitality industry; social and economic influences on the current leisure industry structures. Career opportunities at various levels in hotels, restaurants, food service institutions and private clubs/resorts. Education and experience requirements, personal qualifications, job responsibilities, job procurement and future opportunities.

#### VOC HRM52 — Food Safety/Sanitation

Basic principles of sanitation and safety in the food service industry. Emphasis on the role of management in design, implementation and training to establish an effective Hazard Analysis Critical Control point (HACCP) system. Students will have the opportunity to earn the National Restaurant Association's ServSafe Certificate upon completion of this course.

#### VOC HRM53 — Dining Room Service Management

Skills and knowledge needed for all aspects of dining room service. Exploration of the five different service styles and their relationship to various environments. Table setting styles, buffet set-ups, wine and beverage service, and service as a sales tool are covered. Safety of both customer and staff are discussed.

#### VOC HRM54 — Commercial Food Preparation

Basic principles of preparing foods for commercial operations; the use and identification of commercial tools and equipment; extending recipes; choosing the proper food grade; evaluation of food products and equipment usage.

# VOC HRM56 — Management of Hospitality Personnel and Operations

Management skills course for students pursuing a career in supervision within the restaurant/ hospitality industry. Application of basic management concepts and techniques necessary to achieve objectives in the management of operations and human resources in restaurant and hospitality businesses including analysis of hospitality workplace; the manager's responsibilities in training, coaching and performance appraisal of employees; decision making, leadership and planning.

#### VOC HRM57 — Restaurant Cost Control

Methods for controlling resources within the hospitality operation to maximize profits without compromising products. Discusses controls in front of the house, back of the house, purchasing and receiving.

#### VOC HRM58 — Fast Food Service Management

Basic principles of managing a fast food operation. Comparison with conventional restaurants in pricing, labor needs and facilities. Developing and marketing a positive company image. Practical and legal aspects of franchising versus single ownership. Sanitation and cost controls.

#### VOC HRM60 — Purchasing for the Restaurant Industry

Basic principles of purchasing for the food service industry. Ordering, receiving, storage, characteristics of products and grade selection for different situations are emphasized. Choosing the best supplier, negotiating the best terms and writing product specifications are covered.

#### VOC HRM61 — Menu Planning

Menu development for all facets of the food service industry including retail and contract operations; emphasis on the economics of the menu with regard to limitations of the facility and staff, pricing and menu design relative to the economy and culture of the target area. Specialty menus such as ethnic, fast food, catering and various contract situations are included.

#### VOC HRM62 — Catering

Comprehensive exploration of the catering business with in-depth study of organizing and creating both on-premise and off-premise events. Marketing and working with clients to combine menu with price. Contracting outside vendors, problem solving and avoiding common problems before they occur.

#### VOC HRM64 — Hospitality Financial Accounting

Introduction to financial accounting specifically for the hospitality business. Emphasis is on tailoring the Uniform System of Accounting to hotels, restaurants, clubs and other food service operations.

#### VOC HRM66 — Hospitality Law

Basic principles of contracts, liability and labor as they apply specifically to the hospitality industry. Students will discuss previous cases and decide the fates of fictional litigations as a preventive approach to problems that can occur.

#### VOC HRM70 — Introduction to Lodging

Introduction to the basics of the lodging industry. Acquaints students with front office operations, accounting, guest service, housekeeping and food service. Includes human resource management and property management. Enrollment in Work Experience in Restaurant/Food Service (RSTR 91, 92, 93 or 94) is needed for articulation to California Polytechnic State University.

# OCCUPATIONAL — INTERIOR DESIGN

#### VOC ID100 — Fundamentals of Interior Design

Application of design principles and elements in planning of total interior environments that meet individual, functional, legal and environmental needs. Selection of all materials and products used in interior environments will be emphasized for the functional aesthetic quality. (Recommend concurrent enrollment in ID 105.)

# OCCUPATIONAL — MANUFACTURING TECHNOLOGY

**VOC MF10 – Mathematics & Blueprint Reading for Manufacturing** Applications of mathematical pringiples, including fractions, decimals, ratio/proportion, geometry and trigonometry to manufacturing problems and their solutions. Reading and interpreting part drawings, assembly drawings and sketches used in the manufacturing industry.

#### VOC MF11 — Manufacturing Processes 1

Manual and computerized manufacturing, manual lathes and mills, tool nomenclature and Computerized Numerical Control (CNC) operations. Operation of CNC machines. Students who repeat this course will improve skills through further instruction and practice.

#### VOC MF12 — Manufacturing Processes 2

The study of manufacturing equipment and manufacturing processes. Theory and practice in milling operations, tooling setup, metallurgy, heat treatment, precision grinding, and basic tool design.

#### VOC 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 featurebased 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 Computerized Numerical Control (CNC) Programming

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 — Photoshop Imagery

Adobe Photoshop software skills, techniques and digital workflow practices from digital image editing and retouching to the composited imagery commonly created for using photography, commercial design, printing and publishing, the Internet and multimedia authoring production.

### VOC GRP12 — Photoshop Imagery Extended

Adobe Photoshop Extended software skills and techniques for the creative photorealistic imagery commonly used in photography, commercial design, printing and publishing, the internet and multimedia authoring production.

### VOC GRP14 — Digital Color Management

Advanced techniques of digital photo color management systems and workflow. System color architectures, monitors, printers, proofers and other digital devices; spectrophotometer techniques; scripting Photoshop actions, using "digital raw" meta data to organize photo storage; advanced special editing techniques for 16-bit raw color and grayscale images.

### VOC GRP16 — Illustrator Graphics

Adobe Illustrator software skills, techniques and digital workflow from essential digital drawing basics to creatively conceived illustrative imagery and renderings commonly created for use in commercial design, printing and publishing, the Internet and multimedia authoring production.

### VOC GRP18 — 3D Graphics Imagery

3D graphics modeling software skills and production techniques from 2D orthographic drawing to the creatively conceived 3D imagery and animated environments commonly created for self-expression, entertainment, commercial design, printing and publishing, the Internet and multimedia authoring production.

### VOC GRP20 — Multimedia Graphics

Multimedia graphics software skills and production techniques for combining text, image, audio, video, animation and scripting media to author multimedia projects commonly created for self-expression, entertainment, commercial design, the Internet and multimedia production.

### 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 PH010 — Basic Digital & Film Photography

The basic mechanical, optical and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques.

### VOC PH011 — Advanced Professional Photography

Exploration of current professional techniques. Includes studio and field assignments related to problems encountered in advanced photography. Topics include but are not limited to: medium and large format cameras, studio product and portraiture, strobe and tungsten lighting, and computer basics for professional photographers.

### VOC PH012 — Photographic Alternatives

Explores the use of continuous tone and alternative black and white techniques and processes. Emphasis will be on solving photographic problems through the use of current techniques such as montage printing, Polaroid and xerographic applications, hand coloring, and emulsion coating (cyanotype, Luminous/LiquidLight) as well as other special techniques.

### VOC PH015 — History of Photography

Survey of the history of photography from circa 1839 to the present. An introduction to concepts of photographic representation and their impact on society.

### VOC PH016 — Fashion Photography

Illustrative, editorial and advertising fashion photography. Studio and location production in both black and white and color are emphasized. Aspects of business operation and working with clients are explored.

### VOC PH017 — Photocommunication

Explores the application of the photosensitive materials, photochemicals and optics. The emphasis will be on the aesthetic and expressive uses to which these materials lend themselves. The student is expected to supply his/her own adjustable camera.

### VOC PH018 — Portraiture and Wedding Photography

Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In-depth study and practice in professional wedding photography.

### VOC PH020 — Color Photography

An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints.

### VOC PH021 — Exploring Color Photography

Explores the application of color processes as they relate to commercial and artistic styles. Emphasis is on innovative use of color and contemporary techniques. Includes media manipulation and unique processing, coloring negatives, 8x10 Polaroid, digital imagery, specialized lighting, set building and guality 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 — 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 — TUTOR TRAINING

#### VOC TR10A — Introduction to Tutoring

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving and working with a diverse student population.

### VOC TR10B — Tutoring in the Language Arts

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.

### VOC TR10C — Tutoring as a Supplemental Instructor

Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.

#### VOC TR10D — Tutoring in Mathematics

Tutoring in mathematics with an emphasis on strategies to promote active learning and dealing with specific obstacles in developmental algebra.

#### VOC TR10R — Tutoring in Reading

Methods of assessment, management of sessions and application of strategic reading processes. This course prepares students to become reading tutors for all READ students.

#### **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 — Oxyacetylene 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.

### **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 and Other Attendees**

Classroom activities are intended to benefit those students officially registered for the class. Others are permitted to attend a regularly scheduled class meeting only in specific situations. The professor assigned to teach the class may grant permission to visit the class. Disabled Students Programs and Services (DSPS) may authorize a person to be a Personal Care Attendant (PCA) when the need for such accommodation is authorized by DSPS prior to beginning service as a PCA. Additional information regarding classroom visitors can be found in Administrative Procedure 4700.

### **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.

Individuals having a doctor's verification that allows them to park in zones designated as "handicapped parking" 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. Students having a current "Disabled Person" permit and placard or a "DP" license plate from the State of California Department of Motor Vehicles are not required to purchase a student parking permit. They are allowed to park in any parking space designated as "handicapped parking," any metered space (at no cost), or any time limited space (without having to observe the time limit specified). Everyone parking in "handicapped parking zones" must ensure that the placard or license plate is displayed properly.

### **Eye Protection**

Pursuant to the Education Code, the following regulation regarding eye protective devices shall be observed: Students, teachers, and visitors shall wear approved eye protective devices in all classes, shops, and laboratories when they are engaging in or observing the use of hazardous materials likely to cause injury to the eyes. Such eye protective devices shall meet the requirements of the American Standards Association Safety Code.

### **Academic Honesty**

All members of the academic community have a responsibility to ensure that scholastic honesty is maintained. Faculty has the responsibility of planning and supervising all academic work in order to encourage honest and individual effort, and of taking appropriate action if instances of academic dishonesty are discovered.

Honesty is primarily the responsibility of each student. The College considers cheating to be a voluntary act for which there may be reason, but for which there is no acceptable excuse. It is important to understand that collaborative learning is considered cheating unless specifically allowed for by the professor.

### **Cheating and Plagiarism**

### Cheating

Professors have the responsibility of planning and supervising all academic work to encourage honest and individual effort, and of taking appropriate action if instances of academic dishonesty are discovered. However, honesty is primarily the responsibility of each student. The College considers cheating to be a voluntary act for which there may be reasons, but for which there is no acceptable excuse. It is important to understand that collaborative learning is considered cheating unless specifically allowed by the professor. The term "cheating" includes but is not limited to:

- Plagiarism
- Receiving or knowingly supplying unauthorized information
- Using unauthorized material or sources
- Changing an answer after work has been graded and presenting it as improperly graded
- Illegally accessing confidential information through a computer
- Taking an examination for another student or having another student take an examination for you
- 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 Catalog.

### **Non-Discrimination Policy**

Mt. San Antonio College is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities. The College provides an educational and employment environment in which no person shall be unlawfully denied full and equal access to, the benefits off, or be unlawfully subjected to discrimination on the basis of ethnic group identification, national origin, religion, age, sex or gender, sexual orientation, race, color, ancestry, medical condition, martial status, veteran status, sexual orientation, or physical or mental disability (including HIV and AIDS), or on the basis of these perceived characteristics or based on association with a person or group with one or more of these actual or perceived characteristics, in any program or activity that is administered by the College. The lack of English language skills will not be a barrier to admission.

Students who believe they have been discriminated against may begin the process with the Dean, Student Services, located in Building 9C. Students may access the Unlawful Discrimination Complaint Form at www.cccco.edu/SystemOffice/Divisions/Legal/Discrimination/tabid/294/ Default.aspx or the Student Grievance and Complaint forms at www.mtsac.edu/students/studentlife or go directly to the office of Human Resources. All complaints of unlawful discrimination or sexual harassment by students of the College will be fully investigated by Human Resources.

College employees have similar rights which can be found in the College's Board Policy and Administrative Procedures.

### Annette Loria, Vice President

Human Resources/Equal Employment Opportunity Officer ADA/504 Compliance Officer Human Resources Office Ext. 4225 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 Building 9C.

The College President/CEO shall establish procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and State law and regulations.

The procedures shall clearly define the conduct that is subject to discipline, and shall identify potential disciplinary actions, including but not limited to the removal, suspension, or expulsion of a student.

The Board shall consider any recommendation from the College President/CEO for expulsion. The Board shall consider an expulsion recommendation in closed session unless the student requests that the matter be considered in a public meeting. Final action by the Board on the expulsion shall be taken at a public meeting.

The procedures shall be made widely available to students through the College catalog and other means.

The following conduct shall constitute good cause for discipline, including but not limited to the removal, suspension or expulsion of a student:

- 1. Causing, attempting to cause, or threatening to cause physical injury to another person.
- 2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a College employee, which is concurred with by the College President/CEO.
- 3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- 4. Committing or attempting to commit robbery or extortion.
- 5. Causing or attempting to cause damage to College property or to private property on campus.
- 6. Stealing or attempting to steal College property or private property on campus, or knowingly receiving stolen College property or private property on campus.
- 7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.
- 8. Committing sexual harassment as defined by law or by College policies and procedures.
- 9. Engaging in harassing or discriminatory behavior based on national origin, religion, age, sex (gender), race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because a person is perceived to have one or more of the foregoing characteristics.
- Willful misconduct that results in injury or death to a student or to College personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the College or on campus.
- 11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
- 12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- 13. Dishonesty, forgery, alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.
- 14. Unauthorized entry upon or use of College facilities.
- 15. Lewd, indecent or obscene conduct on College-owned or controlled property, or at College-sponsored or supervised functions.

### **College Policies and Notices**

- 16. Engaging in expression which is obscene, libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation of lawful College administrative procedures, or the substantial disruption of the orderly operation of the College.
- 17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- 18. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any College policy or Administrative Procedure.
- 19. Harassment of students and/or College employees that creates an intimidating, hostile, or offensive environment.
- 20. Violation of College rules and regulations including those concerning affiliate clubs and organizations, the use of College facilities, the posting and distribution of written materials, and College safety procedures.

### **Student Complaints/Grievance Process**

Students are protected against capricious, arbitrary, unreasonable, unlawful, false, malicious or professionally inappropriate evaluations or behavior by a faculty member.

Student complaints may be classified as grievances and fall into three categories: Academic, Non-Academic and Discrimination Complaints. Academic grievances involve grades. To grieve a grade, a student must prove that the professor issued a grade by mistake, fraud, bad faith, or incompetence (Education Code 76224). Non-Academic grievances include: illegal discrimination, sexual harassment, financial aid, violation of College policies, any violation of Title IX or Section 504 related to students with disabilities.

Grievances must be filed no later than 30 school days (Monday - Friday when classes are in session) after the beginning of the primary term following the alleged violation, or 30 school days from the time that the student learns of the basis for the grievance. To begin the formal grievance process, students may pick up Grievance Procedures and forms from the Student Life Office, Building 9C. It is recommended that students meet with the Student Life Director regarding the grievance prior to starting the process since timelines are established for every step of the process and must be met precisely.

The process for filing and pursuing a grievance includes two levels: in Level I (informal level) the student picks up the grievance forms and official procedures from Student Life and attempts to resolve the problem by meeting first with the faculty member (or staff member/administrator for non-academic grievances) and then to the faculty member's

department chair or immediate supervisor. If the complaint is not resolved at that level, the student will meet with the division dean of the division of the faculty defendant in an effort to resolve the problem. In the event that the problem cannot be resolved within 10 school days, the student may proceed to Level II (formal grievance) in which the student after completing the forms takes all signed forms and documents to the Student Life Office within the established deadlines.

A Grievance Review Committee chaired by the Dean of Student Services will review the grievance documents. This Committee may forward the grievance for a hearing that provides for a formal hearing process to seek clarification from the parties involved. If the student or faculty/staff member chooses to appeal the decision of the Committee, the appeal is submitted to the College President. The final appeal process resides with the Board of Trustess; their decision concludes the grievance process.

#### **Smoking on Campus**

Student, employee, and visitor health is a primary concern of Mt. San Antonio College. Because of the clear evidence of the harmful nature of smoke inhalation and because of the general concern over air contamination, Mt. San Antonio College in accordance with California State law, bans smoking within all campus buildings and in any outdoor area within twenty feet of any exterior exit or entrance to such a building. This includes all Collegeleased and College occupied buildings. Further, smoking is banned in the swimming pool area, Hilmer Lodge Stadium, and in all college vehicles.

#### Accomodations and 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 gualified 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 Board Policy and Administrative Procedure for Individuals with Disabilities may be found at the following links: www.mtsac.edu/administration/trustees/policies/bp\_complete.pdf#bp5 www.mtsac.edu/administration/trustees/administrative-procedures.pdf Student Services, AP 5140. Alternately, they are also 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 gualified 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.

COLLEGE POLICIES AND NOTICES

### **College Policies and Notices**

#### PUBLIC SAFETY DEPARTMENT STATISTICAL CRIME REPORT

| Violation                        | 2007 | 2008 | 2009 |
|----------------------------------|------|------|------|
| Non-Negligent Manslaughter       | 0    | 0    | 0    |
| Negligent Manslaughter           | 0    | 0    | 0    |
| Sex Offenses - Forcible          | 0    | 0    | 0    |
| Sex Offenses - Non-Forcible      | 1    | 0    | 0    |
| Robbery                          | 2    | 2    | б    |
| Aggravated Assault               | 14   | 15   | 9    |
| Burglary                         | 24   | 21   | 27   |
| Motor Vehicle Theft (GTA)        | 16   | 21   | 12   |
| Theft from Vehicle               | 20   | 12   | 45   |
| Theft                            | 68   | 53   | 53   |
| Arson                            | 0    | 0    | 0    |
| Vandalism                        | 26   | 14   | 31   |
| Liquor Law Violations            | 1    | 3    | 4    |
| Drug Law Violations              | 4    | 2    | 1    |
| Illegal Weapons Violations       | 2    | 1    | 0    |
| Hate Crimes - Race               | 0    | 0    | 0    |
| Hate Crimes - Gender             | 0    | 0    | 0    |
| Hate Crimes - Religion           | 0    | 0    | 0    |
| Hate Crimes - Sexual Orientation | 0    | 0    | 0    |
| Hate Crimes - Ethnicity          | 0    | 0    | 0    |
| Hate Crimes - Disability         | 0    | 0    | 0    |
| Yearly Totals                    | 178  | 144  | 188  |

### **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 above.

### **Emergency Procedures**

Students and staff should report serious crimes and emergencies, i.e., fire/medical, occurring on campus to the Public Safety Department or call 911. When using an on-campus extension, call 9-911. Incidents may be reported to Public Safety by calling (909) 594-5611, ext. 4555, 24 hours a day. During normal business hours, Public Safety may be contacted at Building 4, Room 105, or by calling ext. 4230. The Public

Safety Department is located at the southeast portion of the campus off Bonita Drive in Building 48. Public telephone locations on campus have at least one phone that is equipped with a red emergency button that is a direct line to the Mt. SAC Public Safety Office during and after business hours. In the event of an emergency, students and staff are requested to make a prompt and accurate report to the Public Safety Department.

### Enforcement

The Mt. San Antonio College Public Safety Department has the authority to enforce the Student Discipline Code of Conduct under the Education and Penal Codes of the State of California; and is the liaison with local police and sheriffs departments in cases of criminal actions.

Mt. San Antonio College District incident reports are not official police reports. If an official police report is required, the Los Angeles County Sheriffs Department in Walnut is the appropriate agency to contact.

### **Crime Prevention**

The Public Safety Department's primary responsibility is the safety and security of all members of the College community. Every effort is made to inform students and staff of criminal activity or any other concern that may be an immediate threat to the safety and security of those on campus. Information and workshops on crime prevention are made available to College students and staff. It is the responsibility of every member of the campus community to act in ways that promote the safety of self, others, and the protection of District property.

### **Campus Emergency Phone System**

Mt. San Antonio College has installed a campus wide emergency phone system. This system is divided into two primary segments. The inner campus system consists of emergency phones that are placed on the outside of selected campus buildings and are identified by the familiar blue light affixed to the top of the phone housing. The second segment of emergency phones consists of stand-alone emergency phone towers, located in open campus spaces, primarily in campus parking lots. These phone towers are identified by a blue light affixed to the top of the tower.

Use of any of these emergency phones will connect the user to Campus Security during normal business hours, located in Building 4. During hours when the campus is closed, the Emergency phones will connect the user directly to a cell phone carried by Campus Security Officers who are on duty 24 hours a day, 7 days a week.

### **Student Rights and Privacy Act**

Following is a summary of the Mt. San Antonio College policy related to the Family Educational Rights and Privacy Act of 1974, O.L. 93-380, and Chapter 1297, Statutes of 1976, State of California:

### Access to Educational Records

All former and present students have the right to review and inspect their educational records in the Office of Admissions and Records provided they

make a written request fifteen (15) days in advance. Such a review will be under the direct supervision of a classified or certificated employee in the Admissions and Records Office. Expressly exempted from the right of review and inspection are the following materials:

- 1. Financial records of the parents of the student(s).
- 2. Confidential letters and statements of recommendation maintained by the College on or before January 1, 1975, provided that such letters or statements are not used for purposes other than those for which they were specifically intended.
- 3. Records of instructional, supervisory, counseling, and administrative personnel which are in the sole possession of such personnel and are not accessible or revealed to any other person except a substitute.
- 4. Records of employees of Mt. San Antonio College, made and maintained in the normal course of business which relate exclusively to such person in that person's capacity as an employee, are not available for use for any other purpose.
- 5. Records of students made and maintained by the Student Health Services, the College nurse, the College physician, and the College therapist, which are used in the treatment of students and are not available to anyone other than persons providing such treatment. However, such a record may be personally reviewed by a physician or other appropriate professional of the student's choice.

### **Release of Educational Records Information**

- 1. Any release of a student's educational records, with the exception listed below, must be made with the student's written consent.
- 2. The College may release copies of or otherwise divulge material in the student's educational records only to the official agencies, groups, officials, or individuals specifically mentioned below:
  - a. College staff members; provided that such employees have a legitimate educational interest to inspect such a record.
  - b. Representatives of the Comptroller General of the United States, the Secretary of Education, and administrative head of an educational agency, state education officials, and the United States Office of Civil Rights, where such information is necessary to audit a program.
  - c. Accrediting organizations in order to carry out their accrediting functions.
  - d. Organizations conducting studies on behalf of the institution.
  - e. Officials of other schools or school systems in which the student seeks or intends to enroll subject to the rights of students.
  - 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,

#### **College Policies and Notices**

administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students or their parents by persons other than representatives of such organizations and such information will be destroyed when no longer needed for the purpose for which it is compiled.

- h. Appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons.
- i. Courts or other agencies in compliance with a subpoena or judicial order. A reasonable effort will be made to notify the student in advance of the compliance by the College.
- 3. Directory Information:
  - a. "Directory Information" means a student's name, community of residence, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student.
  - b. Any student desiring to withhold "Directory Information" may file a written request with the Dean, Enrollment Management, within fifteen (15) days of the opening day of each semester or session that the student does not want such information released.
  - c. The College reserves the right to limit or deny the release of specific categories of directory information based upon a determination of the best interests of the student(s).

### The 1996 Soloman Amendment

The 1996 Solomon Amendment is federal law that compels institutions that receive federal funding to provide (upon request) directory information, plus address, phone number, age and class level to military personnel so that these personnel can recruit students.

#### Transfer of Information to Third Parties

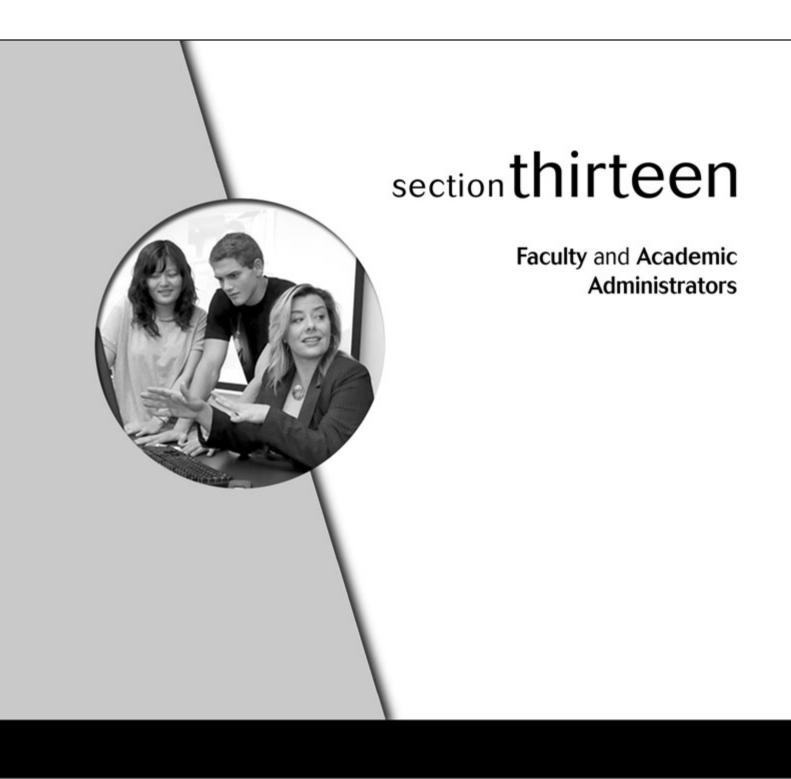
Educational records or personal information transferred to other institutions or agencies will not be transferred to a third party without the written consent of the student.

#### Student Right-to-Know Rates Completion Rate: 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 threeyear period. These rates do not represent the success rates of the entire student population at Mt. San Antonio College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, 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.



### 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)

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

#### 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, Jeffrey 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)

English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

### Arvidson-Perkins, Genene (1988) Nursing A.S.N., Mt. San Antonio College B.S.N., California State University, Fullerton M.S.N., California State University, Los Angeles PHN Certificate FPN. Azusa Pacific University

### Astorga, Juan Carlos (2005) Student Services-Upward Bound

B.A., University of California, San Diego M.A., San Diego State University Ed.D., California State University, Fullerton

### 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

#### Barr, Dustin (2008) Music B.M., M.M., 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 Ed.D., California State University, Long Beach

#### Beydler, David (2011)

Mathematics B.S., Harvey Mudd M.S., California State University, Los Angeles

#### Birca, Alina (2005)

Mathematics, Computer Science B.S., University Alexsandru Ioan Cuza of Iasi M.A., California State University, San Bernardino

### 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

### 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) Learning Assistance B.S., M.A., University of California, Los Angeles

Boyer, Michelle (2007) Nursing B.S., Plattsburgh State University M.S.N., 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

Bro, Glenda (1991) American Language B.A., Dana College M.S., University of Nebraska TESOL Certificate, California State University, Fullerton English, Literature & Journalism B.A., M.A., California State University, Fullerton Brown, Ronald (2006) Fine Arts B.F.A., M.F.A., Art Center College of Design

Brouillette, Ronald (1989)

Burgoon, Steve (2002) Commercial and Entertainment Arts B.A., University of Phoenix M.A., California State Polytechnic University, Pomona

Burgos, Matthew (2010) Theater B.A., University of Wisconsin-LaCrosse M.F.A., Florida State University

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

Butler, Thomas (2011) Fine Arts B.A. Laguna College of Art and Design M.F.A., California State University, Long Beach

### C

**Calzada, Silver (1999)** *Counseling* B.A., Pitzer College M.A.T., Harvard University

Campbell, Micahel (2011) Mathematics B.A., B.S., California State University, Fullerton M.A., Ph.D., University of California, Los Angeles

Cannon, Holly (1988) English, Literature & Journalism B.A., M.A., California State University, Northridge

Cannon, Kathleen (2005) History & Art History B.A., M.A., M.F.A., Ph.D., University of California, Los Angeles

Cantrell, David (2011) Communication B.S., University of California, San Diego M.S., California State University, Fullerton

Castillejos, Manuel (1989) Foreign Languages B.A., California State University, San Diego M.A., California State University, Fullerton

Caveness, Allen (2009) Physical Education / Head Coach, Men's Basketball B.A., Saint Mary's College of California M.A., Azusa Pacific University

Cavion, Deborah (1994) Interim Associate Dean, Physical Education / Associate Athletic Director B.S., California State Polytechnic University, Pomona M.A., Azusa Pacific University

Cevallos-Castaneda, Susana (2005) Learning Assistance B.A., M.S., California State University, Fullerton

Chang, Chih-Ping (Andrew) (1997) Foreign Languages B.Ed., National Changhwa University of Education M.A., National Taiwan Normal University Ph.D., University of Southern California Chapman, C. Neil (1997) Commercial and Entertainment Arts B.A., California State University, Long Beach M.A., California State University, Fullerton Ed.D., University of La Verne

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 B.S., California State Polytechnic University, Pomona M.A., California State University, Los Angeles Ph.D., University of California, Riverside

Chen, Jenny S. (1998) Chemistry B.S., University of California, Irvine M.S., Ph.D., University of California, Los Angeles

Chen, Gou-Ling Susie (2003) Nursing A.D.N., National Taipei College of Nursing B.S.N., Kaohsiung Medical College M.A., Oklahoma City University M.N., University of California, Los Angeles Lifetime Instructor Credential, National Taiwan Normal University

Chen, Meghan M. (2000) Dean, Library & Learning Resources B.A., 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 Ed.D., Capella University

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) Nursing B.A., Whittier College B.S.N., M.S.N., Azusa Pacific University

### Cooper Mark J. (1997)

**Bioloaical 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

### 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

### Degtvareva, Anna (1999)

Computer Information Systems B.S., M.S., Leningrad University for Economics Engineers M.S., California State University, San Bernardino

### Deines, Craig B. (1997)

Fine Arts B.A., M.F.A., Central Washington University

### Denny, Joseph (2010)

Electronics and Computer Technology B.A., Azusa Pacific University B.S., California Polytechnic State University, Pomona

### DePaola, Gina (1991)

Enalish, Literature & Journalism B.S., Metropolitan State College, Denver M.S., California State University, Long Beach

#### Diem, Andrea (1991) Socioloav, Philosophy B.A., University of California, San Diego M.A., Ph.D., University of California, Santa

Barbara Di Mauro, Eileen (1991) Chemistrv 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) Sian Lanauaae

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

## E

Earhart, Kimberly (2005) History & Art History A.A., Riverside Community College B.A., M.A., Ph.D., University of California, Riverside | Enke, Gary D. (1990)

### 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 & Desian Technologies B.F.A., California State University, Long Beach

### Edson, Thomas (2006) English, Literature & Journalism B.A., University of California, Irvine M.A., Chapman University

Edwards, William (2005) Mathematics, Computer Sciences B.S., M.S., California State Polytechnic University, Pomona

### Eislev, Beniamin 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) Computer Information Systems 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., Psv.D., Biola University, La Mirada

Enalish. Literature & Journalism B.A., St. Joseph College M.A., Claremont Graduate School

Esslinger, Sandra (2002) History & Art History 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 Member, Caifornia Bar Association

### Estrada, Maria (2004)

English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

Ezzell, Sun (2006) Learning Assistance B.A., M.A., Humboldt State University

## F.

### Faraone, Teresa M. (1999) Consumer & Design Technologies B.A., M.A., California State University, Los Angeles

Farve, Debra (1988) English, Literature & Journalism B.A., Xavier University M.A., University of Notre Dame Ed.D., University of Southern California

Felix, Diana (2011) Counselina B.A., University of California, Santa Barbara

M.S., California State University, Long Beach

### FioRito, Arleen M. (2000) Nursing A.S., A.A., Mt. San Antonio College P.H.N., B.S.N., M.S.N., CNS, California State University, Dominguez Hills FNP, Azusa Pacific University

THE FACULTY

Fisher, Damany (2009) History & Art History B.A., University of California, Davis M.A., Ph.D., University of California, Berkeley

### Ford, Kelly (2001)

Physical Education / Head Coach, Women's Softball 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 Ed.D., University of Southern California

Frahs, Paul (2004) English, Literature & Journalism B.A., State University College, Potsdam, New York M.A., University of California, Irvine

Franko, Joseph (2002) Mathematics, Computer Science B.S., Iowa State University M.S., California Polytechnic University, Pomona

Frickert, Allison (2008) History & Art History B.A., M.A., California State University, Fullerton

Fulbright Dennis, Wanda (1990) Counseling B.A., Fresno Pacific College M.S., California State University, Los Angeles Ed.D., University of La Verne

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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

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Garrett, Jean (1989) English, Literature & Journalism A.A., Mt. San Antonio College B.A., M.A., California State Polytechnic University, Pomona

Garrett, LeAnn (2001) Librarian B.S., University of Wisconsin – Stout M.L.I.S., Ph.D., University of Hawaii at Manoa

Garwick, Jennifer (2006) Agricultural Sciences B.S., California State Polytechnic University, Pomona

Gau, Jim (2000) Computer Information Systems B.E., Feng Chia University M.B.A., California Lutheran University

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Golestaneh, Kamran (2008) Chemistry B.S., B.S., M.S., California State Polytechnic University, Pomona

Gomez, Francisco (2011) English, Literature and Journalism B.A., California State University, Fullerton M.F.A., Chapman University

Gonzales, Barbara (2002) Learning Assistance A.A., Mt. San Antonio College B.A., M.Ed., University of La Verne Gonzalez, Gail (1999)

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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

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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

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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)

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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

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Public Services B.S., United States Military Academy, West Point M.S., University of Cincinnati

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*Child Development* B.A., Humbolt State University M.A., California State University, Los Angeles M.A., Azusa Pacific University

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*Counseling* A.A., Santa Ana Community College B.A., M.A., California State University, Fullerton Ph.D., University of Southern California

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Hernandez, Cristina M. (1997) History & Art History 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

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### Hischar, Paul (1998)

Accounting & Management B.S., California State Polytechnic University, Pomona M.B.A., West Coast University

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History, Art History, Geography, Political Science B.A., M.A., California State University, Fullerton Ph.D., University of California, Riverside

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### Hoggan, Lynda Smith (1996)

Biological Sciences B.S., Slippery Rock University M.P.H., University of California, Los Angeles

### Hood, Michael (2009)

*Earth Sciences, Astronomy* B.S., University of Wisconsin-Madison M.S., University of California, Irvine

Hoover, Karelyn (1995) Chemistry B.S., M.S., New Mexico Institute of Mining & Technology

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Mathematics, Computer Science B.S., M.S., University of California, Irvine

Howell, Luisa (2002) Foreign Languages B.A., M.A., California State University, Sacramento

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### 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

### Hughey, Douglas (1999) Child Development A.A., San Diego City College B.A., M.A., Pacific Oaks College

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Physical Education / Head Coach, Men's Football B.A., University of Miami M.S., University of Nevada

Jeffers, Bonnie H. (1997) Accounting & Management 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) Dean, Physical Education / Athletic Director 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

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Kakiba-Russell, Karyn N. (1990) Biological Sciences B.S., M.S., California State University, Los Angeles

Kaljumagi, Eric (1999) Learning Assistance B.S., University of California, Davis M.A.T., University of California, Davis

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Knapp, Joshua (2000) Psychology, Education B.A., University of California, Berkeley Ph.D., University of California, Santa Barbara

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Kojima, Tetsuro (2000) Mathematics, Computer Science B.A., M.S., California State University, Los Angeles Ph.D., University of Southern California

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Ledeboer, Lisa (2006) Consumer Science & Design Technologies B.S., Iowa State University M.S., California State University, Northridge

Lee, Eddie (2006) Counseling B.A., California State Polytechnic, Pomona M.S., California State University, Long Beach

Leung, Jenny (2006) Chemistry B.S., M.S., University of California, Irvine Lizarraga, Max (1993)

Architecture & Engineering Design Technology B.A., M.A., California State University, Long Beach

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Loera-Ramirez Dionne (2001) English, Literature & Journalism 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) Dean, Instructional Services B.A., M.S., Ed.D., University of Southern California

Lopez, Audra (2001) Agricultural Sciences B.S., M.S., California State Polytechnic University, Pomona

Loria, Annette (2010) Vice President, Human Resources B.A., M.A., California State Polytechnic University, Pomona

Louie, Charis (2000) Psychology, Education B.A., Pomona College M.A., University of Missouri Ph.D., University of Missouri, Columbia

Loyd, Rene (1999) Mathematics, Computer Science A.S., Crafton Hills Community College B.S., M.S., University of California, Riverside

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McDonald, Christopher (2002) Mathematics, Computer Science B.A., M.S., California State Polytechnic University, Pomona

McFarland, Thomas (1997) Accounting & Management B.S., M.B.A., California Polytechnic University, Pomona

McFaul, Jason (1999) English, Literature & Journalism B.A., M.A., University of the Pacific

McGeough, Daniel (1986) Accounting & Management B.A., California State University, Fullerton M.B.A., California State University, Long Beach Certified Public Accountant

McGowan, Joumana (2010) Dean, Business A.A., Mt. San Antonio College B.A., M.B.A., California State Polytechnic University, Pomona Ed.D., University of Southern California

McGowan, Richard (1991) Continuing Education B.S., San Diego State University M.B.A., California State Polytechnic University, Pomona Certified Public Accountant

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### 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 Member, California Bar Association

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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

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Mathematics, Computer Sciences B.S., M.S., Northern Illinois University

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B.A., Carthage College, Wisconsin M.A., Fuller Theological Seminary, Pasadena

### Ma, Jannie (2008)

*Learning Assistance* B.A., M.A., University of Southern California M.A., California State University, Fullerton

#### MacDonald, Jennifer (2001) Program Director, Histologic Technician Bioloaical Sciences

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Interim Director, Community & Career Education A.A., Mt. San Antonio College B.S., California State Polytechnic University, Pomona M.S., University of La Verne

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*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

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Foreign Languages A.A., East Los Angeles College B.A., M.A., University of California, Los Angeles 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) Counseling B.A., California State Polytechnic University,

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### 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

### Metter, Jean (1999) Consumer Science & Design Technologies B.S., California State Polytechnic University, Pomona M.P.H., University of California, Berkeley

### Meyer, Elizabeta (2001)

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### Meyers, Richard (2011) English, Literature and Journalism B.A., University of La Verne

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### Mezquita, Jesse A. (1977)

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### Mirman, David (2000) Biological Sciences B.A., University of Pennsylvania M.S., University of California, Davis

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### Munro, Matthew J. (1998)

Mathematics, Computer Science B.S., University of Washington M.A., University of Colorado

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Nitta, Akira (Art) (2006) Mathematics, Computer Science B.A., University of Irvine M.S., California State Polytechnic University, Pomona

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O'Brien, Paul (1999) English, Literature & Journalism B.A., University of California, Los Angeles M.A., San Jose State University

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Olds, Jennifer (2008) English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

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Parra, Heidi R. (1992) Mathematics, Computer Science A.A., Cerritos College B.A., M.A., California State University, Fullerton

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### Patterson, Richard (2002)

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### 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

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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) Counseling B.A., University of California, Santa Barbara Ph.D., Washington State University

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Petersen, Craig A. (1981) Biological Sciences B.S., M.S., California State University, Los Angeles

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### Potter, Don (2009)

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*Psychology, Education* A.A., Mt. San Antonio College B.A., California State University, Fullerton M.A., University of California, Riverside

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Purcell, Robert (2011) Physical Education B.A., M.S., Azusa Pacific University

# Q

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### Reel, Ron (1988)

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### Reille, Audrey (2006)

Director, Center of Excellence M.B.A., California State University, San Bernardino Ed.D., University of Southern California

### Reinhart, Liesel (1997)

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### 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)

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Reyes, Mary-Ellen (1998) Mental Health Technology A.A., Chaffey College

Richardson, Lanny (1995) Air Conditioning & Welding A.S., Mt. San Antonio College

### 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

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### Rivas, Hector (2007)

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### Rivas, Tony M. (2005)

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### Robinson, Carolyn (2006) Learning Assistance B.S., California State Polytechnic, Pomona

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### Rogers, Bruce (1994)

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### Rogus, Linda (2005)

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Sanchez, Andrew (2001) Mental Health Technology A.S., R.N., Mt. San Antonio College

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| Fiscal Services                            |
| Human Resources16E                         |
| Instruction Office                         |
| Mail Center                                |
| Parking Office (Violations)                |
| Payroll & Purchasing                       |
| Research                                   |
| 48th Agricultural District Office F10      |
| Adult Basic Education Center 30            |
| Agricultural Sciences                      |
| Agricultural Technology Center F3          |
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| Art Center 1A/B                            |
| Art Computer Graphics Lab 18-1             |
| Art Gallery/Classrooms 1B/C                |
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| Biological Services 7, 11, 60 & 61         |
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| Box Office (Performing Arts)2              |
| Bursar's Office/Photo ID/Permits 9A        |
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| Center of Excellence                       |
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| Child Development Center North 9E          |
| Child Development Center South 19A         |
| Child Development Classes 198              |
| Child Development Faculty Offices 18A      |
| Common Grounds                             |
| Communication Dept 26D                     |

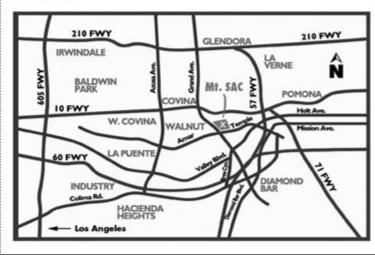
| Continuing Education Division 40                                         |                  |
|--------------------------------------------------------------------------|------------------|
| Construction Offices                                                     | 1                |
| Counseling 98                                                            | 1                |
| Disabled Student Services                                                |                  |
| English                                                                  | '                |
| Equipment Technology Lab                                                 | 1                |
| ESL Classrooms                                                           | /                |
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| Fashion                                                                  | 1                |
| Foreign Languages                                                        | 1                |
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|                                                                          | 1                |
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| Library                                                                  |                  |
| Media Services                                                           |                  |
| Professional & Organizational Dev.                                       |                  |
| Tutorial Services/Supervised Tutoring                                    | n :              |

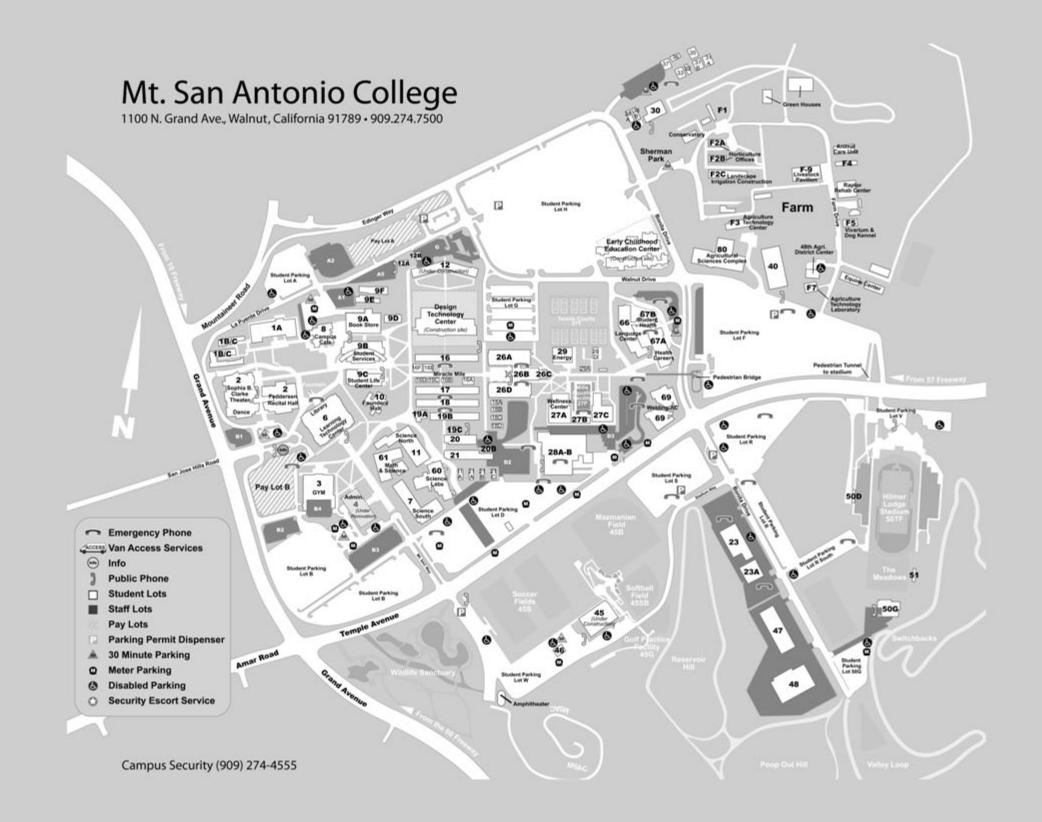
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| PE Pool                                  |
| Photographics                            |
| Picnic Area/Restrooms                    |
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| Prime Stop                               |
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|                                          |
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|                                          |

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|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Student Life Center                                                                 | SECURITY                                                                   |
| Student Services Center 98<br>Admissions & Records                                  | ESCORT SERVICE                                                             |
| ASPIRE (9D)<br>Assessment                                                           | For your added personal safety,<br>Mt. SAC offers a Campus Escort Service. |
| Assessment<br>Bridge/Learning Communities <b>(9D)</b><br>Career & Transfer Services | Monday - Thursday,<br>6:30 - 10:10 p.m.                                    |
| Counseling Department                                                               | Personal Escorts can be identified by                                      |
| Disabled Student Programs & Services<br>EOPS/CARE/CalWORKs                          | their yellow jackets and I.D. badges.<br>See the color map for a orange 🔘  |
| Financial Aid<br>High School Outreach                                               | which shows the approximate<br>location of Escorts.                        |
| Upward Bound <b>(9D)</b><br>Veteran's Affairs                                       | Escort Service<br>(909) 274-4233                                           |
| Swine Barn                                                                          | Campus Security                                                            |
| Teacher Prep. Institute                                                             | (909) 274-4555                                                             |
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#### DISTRICT MAP





# THEN & NOW . . .

In the spirit of Mt. SAC's milestone 65th anniversary, we salute over six decades of quality instruction with this "then-and-now" design concept for the catalog covers. Over these many years, Mt. SAC has distinguished itself as an institution committed to teaching excellence and student success. That's our longstanding legacy!