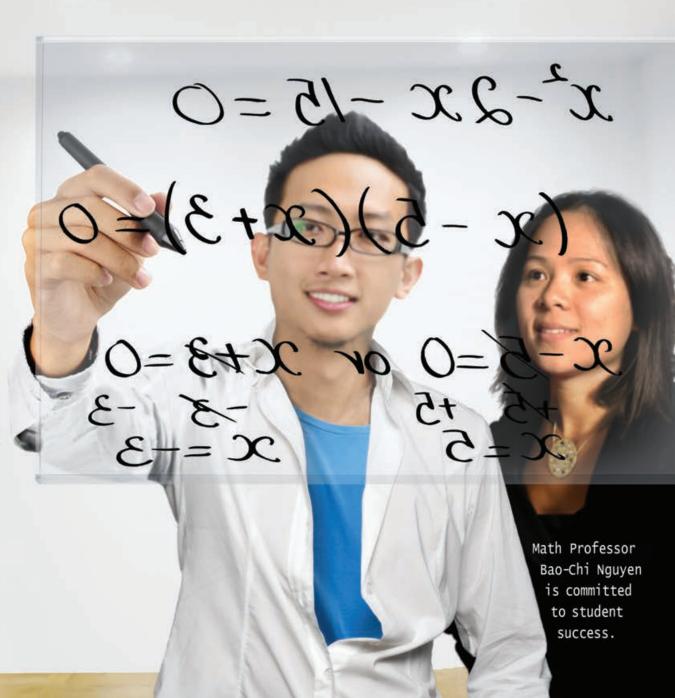
CATALOG

Mt. San Antonio College 2012-13

committed to student success



ACKNOWLEDGMENTS

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ABOUT THE DESIGN THEME

This year's Catalog design theme highlights Mt. SAC's ongoing commitment to student success. Thus the graphic message reinforced on the covers and section pages underscores the unwavering commitment of every employee and every program and service to the success of all Mt. SAC students. This theme aligns with the College's legacy of academic excellence and distinction.

Committed to Student Success

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 2012-13 Catalog does not constitute a contract or terms of a contract between the student and the College.

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

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

www.mtsac.edu

committed to student success

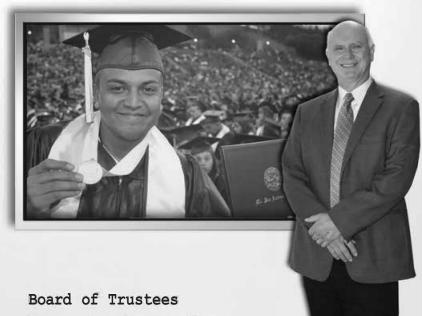
I am pleased to release this 2012-13 college Catalog. It is a compilation of courses, programs, support services, degree offerings, and transfer information that you wi71 need to chart your course to academic success. All of this represents our umvavering commitment-despite difficult economic times-co provide you the finest education, period!

In this catalog, you will find more than 200 degree and certificat:e programs, as wen as a full range of basic skills and personal deve topment courses. I encourage you to use the catalog as your planning resource guide to explore the vast scope of opport.unities, services, and programs that Mt. SAC offers.

You wHI find a rich array of university transfer, career, and even some new degree programs that can empower you with the knowledge and skills needed to succeed in a diverse and interconnected ivorld. Be assured that our curriculum is in step with the fast-changing needs of today"s dynamic employment sectors.

As we head toward our 75th jubilee in a few years, Mt. SAC remains committed to student success-a tagliine that is reiterated on each chapter page of this catalog. To the many freshmen who will enter Mt. SAC this fall, and to all current and returning studernts, we welcome you with open arms and wish you much success as you now become a part of our legacy of excellence.

Dr. wfl 1i am T. Scroggins President: & CEO



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

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2012-13 College Calendar

Fall 2012

August 26	Residency determination date				
August 27	2012 Fall Semester begins				
	2012 Full Schlester Begins				
September 3	Labor Day (campus closed)				
September 7	Last day to add a class				
September 7	Last day to change residency for 2012 Fall Semester				
September 10	Last day to withdraw without a "W" for 16-week classes				
September 27	Last day to change grading option for 16-week classes				
October 5	Last day to petition for Fall Semester graduation				
November 12	Veteran's Day (campus closed)				
November 14	Registration begins for 2013 Winter Intersession				
November 22 - 25	Thanksgiving Recess (campus closed)				
December 3	International student application due for 2013 Spring Semester				
December 5 - 7, 10 - 14	"Book Buy Back" at SacBookRac				
December 9	Last day to petition for Winter Intersession graduation				
December 10 - 16	Final Exams (see schedule in 2012 Fall Schedule of Classes)				
December 16	2012 Fall Semester ends				
December 17 - January 6	Winter Recess for students				

2012-13 College Calendar

Winter 2013

January 1, 2013 January 7	New Year's Holiday (campus closed) 2013 Winter Intersession begins
January 21	Martin Luther King, Jr. Day (campus closed)
February 15	Lincoln's Birthday (campus closed)
February 17	2013 Winter Intersession ends
February 18	Washington's Birthday (campus closed)

Spring 2013

February 25	2013 Spring Semester begins	
March 29	Cesar Chavez Day of Observance (campus closed)	
May 27	Memorial Day (campus closed)	
June 10 - 16 June 14 June 16	Final Exams (see schedule in 2013 Spring Schedule of Classes) Commencement 2013 Spring Semester ends	

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2012-13 College Calendar

Summer 2013

June 24	2013 Summer Intersession begins			
July 4	Independence Day (campus closed)			
August 4	2013 Summer Intersession ends			

COLLEGE DIRECTORY

The main College telephone number is (909) 274-7500. For direct access to the offices listed below, dial (909) 274 + the 4-digit extension listed below.

Academic Counselor for Student Athletes		*ESL & Intercultural Programs		Performing Arts Center Box Office	
Academic Senate	5436	Event Services		Performing Arts Operations	
*Accounting & Management		Exercise Science/Wellness Center		Photographics	
ACES Program		Extended Opportunity Programs & Serv. (EOPS)		Photo I.D.	
Adult Basic Education Center		Facilities Planning & Management	4850	*Physical Therapy Aide	
Advising		Faculty Association		*Physics, Engineering	
Administrative Services		Farm Tours		Planetarium Shows	
Admissions & Records		Fashion Merchandising & Design	4967	Planetarium Tour	
*Aeronautics & Transportation		Financial Aid	4450	Presentation Services	427
Affirmative Action	4225	*Fine Arts		President & Board of Trustees	425
*Agricultural Sciences		*Fire Technology	5146	Printing Services	
*Air Conditioning, Water Technology & Welding	5107, 4638	Fiscal Services	4234	Professional & Organizational Development	450
*Aircraft Maintenance & Manufacturing Technology	4762, 4770	*Foreign Languages	4583, 4581	*Psychology & Education	536
*Alumni Association		Foundation Office	4215	*Psychiatric Technician	475
*American Language	6313	*Geography & Political Science	4507	Public Safety	
*Architecture & Engineering Design	4803	Grants Office		*Public Services	465
Art Gallery	4328	Grounds Service Requests	4850	Purchasing	424
*Arts Division	5200	*Health Center	4400	*Radiologic Technology	475
Aspire	6396	Help Desk (IT)		Real Estate	
Assessment Center	4265	High School Outreach	5906	Re-Entry Center	439
Associated Students	4526	*History & Art History	4567	*Registered Veterinary Technology	454
*Athletics	4630	*Histotechnology	4884	Registration	441
Auxiliary Services	4470	Honors Program	4665	Research & Institutional Effectiveness	
*Biological Sciences		Horticulture Unit	4893	*Respiratory Therapy	475
Bookstore (SacBookRac)		Hospitality Management Coordinator		Risk Management	
Bridge Program		Housing Information		SacBookRac	
Broadcast Services		*Humanities & Social Sciences Division		Security (Campus)	
*Business Administration		Human Resources		*Service Learning	
*Business Division		Information Technology		*Sign Language	
Bursar's Office		Instruction Office		*Sociology & Philosophy	
CalWORKs		*Kinesiology, Athletics & Dance Division		Sodexo (Campus Cafe - for all food service location:	
Campus Café (Sodexo - for all food service locations)	5284	KSAK Studio		Special Events	
Campus Security		*Language Learning Center		Speech/Sign Success Center	
Campus Tours		*Learning Assistance Center		Stadium Ticket Office	
CARE		Learning Lab		Student Center	
Career & Transfer Services		Library		Student Life & Student Clubs	
Center of Excellence		*Library & Learning Resources Division		Student Services, Dean	
*Chemistry		Lost & Found (Student Life)		Student Services, V.P. Office	450
*Child Development		Mail Services		Study Abroad	
Child Development Center		Maintenance & Operations		*Teacher Prep Institute	
*Communication		Marketing & Public Affairs Office		Technical Services	
Computer Information Systems		*Mathematics, Computer Sciences		*Technology & Health Division	
*Continuing Education Division		*Medical Services Department		Technology Education Resource Center	
*Consumer Science & Design Technologies	4139	*Mental Health Technology		*Theater	
Contract Education	4210	Mountaineer		Transfer Center	
*Counseling		*Music		Transportation	
CSEA 262		*Natural Sciences Division		Tutorial Services	
Custodial Services		*Noncredit Programs		Upward Bound	
*Dance		*Nursing Department		Veterans' Service Center	
Disabled Student Programs & Services (DSP&S)				Warehouse	
		Online Learning Support Center			
Distance Learning		Parking Office		Wellness Center	
*Earth Sciences & Astronomy	4148	Parking Services Cashier		Wildlife Sanctuary Tours	
*Electronics & Computer Technology		*Paralegal		Writing Center*	
*English, Literature & Journalism	6332	Payroll	4240	*Instru	ictional programs and departmen

SECTIONONE

The College

Committed to Student Success



MT. SAN ANTONIO COLLEGE

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

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

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

Instruction at Mt. SAC is organized under a divisional structure with departments within each division. At present, the College has eight instructional divisions within which are 48 departments.

HISTORY

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

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

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

Not surprisingly, the growth of Mt. SAC has mirrored that of the local area. The College now serves the communities of Baldwin Park, Bassett, Charter Oak, Covina, Diamond Bar, the southern portion of Glendora, Hacienda Heights, City of Industry, Irwindale, La Puente, La Verne, Pomona, Rowland Heights, San Dimas, Valinda, Walnut, and West Covina.

Mt. SAC has emerged as a leader in education not only in the San Gabriel Valley, but in the state. It is California's largest, single-campus community college with a combined Credit, Continuing Education, and Community Service student enrollment of over 65,000. In 2011 Mt. SAC proudly celebrated 65 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

Mt. SAC strives to be regarded as one of the premier community colleges in the nation. We will be viewed as a leader in community college teaching, programs, and services.

As a premier community college, we will provide access to quality, focusing on student success within a climate of integrity and respect. We will earn this reputation by consistently exceeding the expectations of our students, our staff, and our 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.



COLLEGE ORGANIZATION

President	
	Dr. Manuel Baca
Clerk	Fred Chyr
Member	Judy Chen Haggerty, Esq.
	Dr. David K. Hall
	Elisa Marin
College President & CEO	Dr. William Scroggins
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Administrative Services	Ext. 4230
Vice President, Administrative Services	Michael Gregoryk
Associate Vice President, Fiscal Services	Rosa Royce
Director, Accounting Services	Sid Young
Manager, Accounting	Shelly Zahrt-Egbert
Director, Bookstore and Operations	Suzanne Luetjen
Manager, Bursar's Office	Sheree Culross
Manager, Custodial Services	Ken McAlpin
Director, Facilities Planning and Management	Gary Nellesen
Assistant Director, Facilities Planning and Management	Bill Asher
Manager, Facilities Support Services	
Project Manager, Facilities	Roger Sneed
Assistant Director, Fiscal Services	
Director, Grounds and Transportation	Carol Baker
Manager, Payroll	Richard Lee
Director, Public Safety	
Assistant Director, Public Safety	Michael Montoya
Manager, Purchasing	Tom Meikle
Director, Safety, Health Benefits, and Risk Management	Karen Saldana
Director, Technical Services	William Eastham
Human Resources	Ext. 4225
Vice President, Human Resources	Vacant
Director, Human Resources	Terri Hampton
Director, Equal Employment Opportunity	Lorraine Jones
Information and Educational Technology	Ext. 4357
Chief Technology Officer	
Director, Enterprise Applications Systems	Robert Hughes
Director, Academic Technology and Infrastructure	Dale Vickers
Assistant Director, Academic Technology and Infrastructure	
Manager, Data and Network Security	Jeff Holden

ADMINISTRATION	
President's Office	Ext. 4121/4215
Director, Marketing & Communication	Clarence Brown
Director, Public Affairs	Jill Dolan
Executive Director, Mt. SAC Foundation	Bill Lambert
Instruction	Ext. 4200
Vice President, Instruction	Dr. Virginia Burley
Dean, Instructional Services	Dr. Terri Long
Dean, Arts Division	Dr. Susan Long
Dean, Business Division	Dr. Joumana McGowan
Associate Dean, Business Division	Richard Patterson
Director, Child Development Center	Tamika Addison
Dean, Humanities and Social Sciences Division	James Jenkins
Associate Dean, Humanities and Social Sciences Division	Dr. Jeanne Marie Velickovic
Director, Writing Center	Dr. David Charbonneau
Dean, Kinesiology, Athletics and Dance Division	Joseph Jennum
Associate Dean, Kinesiology, Athletics and Dance Division	Debbie Cavion
Dean, Library and Learning Resources Division	Meghan M. Chen
Director, Learning Assistance Center	Bailey Smith
Dean, Natural Sciences Division	
Associate Dean, Natural Sciences Division	Matthew Judd
Dean, Technology and Health Division	Dr. Sarah Daum
Associate Dean, Technology and Health Division	Jemma Blake-Judd
Dean, Continuing Education	Donna Burns
Director, Adult Basic Education	Dr. Madelyn Arballo
Assistant Director, Adult Basic Education	Omideh Sloan
Director, Community and Career Education	Paulo Madrigal
Director, ESL and Intercultural Programs	Dr. Liza Becker
Coordinator, ESL Curriculum and Assessment	Margaret Teske
Director, Grants	Adrienne Price
Director, Research and Institutional Effectiveness	Barbara McNeice-Stallard
Director, Honors	Carolyn Kuykendall
Student Services	Ext. 4505
Vice President, Student Services	Dr. Audrey Yamagata-Noji
Dean, Counseling	
Dean, Student Services	
Dean, Enrollment Management	
Assistant Director, Admissions and Records	
Director, Upward Bound	,
Director, Assessment and Matriculation	3
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ADMINISTRATION (continued)

Director, Career and Transfer Services	Heidi Lockhart
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	Chau Dao
Director, Health Services	Sandra Samples
Director, Student Life	

INSTRUCTIONAL DIVISIONS

Arts Division Ext. 5200

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.

Business Division Ext. 4600

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 25 Associate in Science degrees, two Associate in Arts degrees, and 78 certificates. The Business Division also includes the services of the Child Development Center. 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)

INSTRUCTIONAL DIVISIONS

Continuing Education Division

Ext. 4220

Donna Burns, Dean

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 workplace training on a contract basis throughout the district.

Humanities and Social Sciences Division

Ext. 4570

James Jenkins, Dean

Dr. Jeanne Marie Velickovic, Associate Dean

The Humanities and Social Sciences Division is composed of nine 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 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.

Kinesiology, Athletics and Dance Division

Ext. 4630

Joe Jennum, Dean/Athletic Director

Debbie Cavion, Associate Dean

Mt. SAC's Kinesiology, Athletics and Dance Division has been a leader among community colleges for over 60 years. Our commitment to kinesiology, athletics and dance is exhibited by our dedication to the health and well being of our students and community. Our comprehensive class offerings, certificate programs, Fire and Law Testing (PAT)/Conditioning Program, Dance Productions, Athletic Programs and Athletic Special Events demonstrate this commitment.

Mt. SAC is home to one of 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.

INSTRUCTIONAL DIVISIONS

Library and Learning Resources Division

Ext. 5659

Meghan M. Chen, Dean

Bailey Smith, *Director, Learning Assistance Center*

The Library and Learning Resources Division includes Learning Assistance, Library, Tutorial Services, and Distance Learning/Online Learning Support Center. Housed in the Learning Technology Center, the various departments offer courses and provide academic support for all students at the College.

The College Library

The Library offers students, faculty, and staff a wide variety of information resources for their research needs. Beyond traditional resources such as books, journals, newspapers, videos, and career guides, researchers may also search numerous full-text databases and pre-evaluated web sites. The library faculty teach information competency through courses, customized classes, drop-in workshops, and individualized instruction at the reference desk. For more information, visit http://library.mtsac.edu.

Learning Assistance Center (LAC)

The LAC 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. Noncredit students can get individualized materials and instruction in reading comprehension and vocabulary, elementary math, algebra review, writing, 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. For more information, visit

http://lac.mtsac.edu

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/

INSTRUCTIONAL DIVISIONS

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.

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, 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, Radiologic Technology, Respiratory Therapy, and Registered Nursing. Programs are driven by industry needs and many are governed by state and national accreditation agencies.

SECTION TWO

Matriculation



Committed to Student Success

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://www.mtsac.edu/students/admissions 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 California Education Code, regulations of the Board of Governors of the California Community Colleges in Chapter 5 (commencing with Section 54000) of Division 6 of Title 5 of the California Code of Regulations, 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 eliqible 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.
- 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.
 - The residence can be established and/or changed only by the union of act and intent.
 - e. A man or a woman may establish his or her residence. Thus, it is possible that a woman who is married to, and living with, her husband may have a residence separate from his. A woman's residence shall not be derivative from that of her husband.
 - f. The residence of the parent with whom an unmarried minor child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his or her residence is that of the parent with whom he/she maintained his or her last place of abode; however, the minor may establish his or her own residence provided both parents are deceased and a legal guardian has not been appointed.
 - g. The residence of an unmarried minor who has a living parent cannot be changed by his or her own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control, unless the student qualifies for the self-supporting exception.

Burden of Proof

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

Residence Classification Appeal

Any student, following a final decision on residency classification by the Admissions and Records Office, may make 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/quardian;
- 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.
- 6. Seniors may enroll in two courses.

Special Admit application packets may be obtained in the Counseling Center or online at http://www.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 Center at (909) 274-4937.

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. Students are advised to contact their high school counselor.

Evaluation of Other College Coursework

Mt. San Antonio College reserves the right to evaluate work completed at 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 3 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 by 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 program is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) or the Senior College Commission, under the auspices of the Western Association of Schools and Colleges (WASC).

For more information on articulations with high schools, ROPs and adult schools, please contact the CTE Transitions Office, Bldg. 21D, at (909) 274-5252.

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
- Oualifying 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**.
 - 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.
- 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 2012-13 school year are as follows:

- Summer 2012— First Monday of April
- Fall 2012 First Monday of June
- Spring 2013 First Monday of November

F-1 Visa students can obtain all application materials from our College Website at *http://www.mtsac.edu/students/admissions/international/index.html*T0EFL scores, IELTS scores, admission applications (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 conducted 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 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 or combine classes and to change professors where such action is deemed necessary.

Enrollment Fees and Expenses

Students are charged an enrollment fee and a Health Services Fee 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 prior 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. Please see the current Schedule of Classes for 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.

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 valid 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. When an outstanding financial obligation owed to the College is sent to our collection agencies, Chancellor's Office Tax Offset Program, the collection cost incurred will be added to the original amount owed.

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

Any student having a disciplinary hold 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. For more information, visit http://www.mtsac.edu/students/assessment

Placement Tests

Placement tests are required for appropriate course placement. Students take placement exams for Math, English, Chemistry 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 writing prompt and the writing sample will be evaluated 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 or 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 placed in 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 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

Beginning on July 1, 2012, federal regulations will require all students applying for financial aid to have a high school diploma, GED or a certificate of high school proficiency. The Mt. SAC Assessment Center will no longer be offering the Ability To Benefit test to students. For further information regarding the federal government's Ability To Benefit regulations, contact the Financial Aid Office.

Note: This rule change does not prevent students without a high school diploma, GED or certificate of high school proficiency to attend classes at Mt. SAC. This only affects students eligibility to receive financial aid.

EXEMPTION FROM ASSESSMENT

Students are exempt from Assessment if they:

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

ORIENTATION – CREDIT STUDENTS

Orientation is required for all new students who are enrolling in Mt. San Antonio College.

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;
- select and enroll in a general interest class only. All students must meet course prerequisites.

Exemption forms for students are available in the Counseling Center.

PREREQUISITES, COREQUISITES, AND ADVISORIES

Mt. SAC Faculty 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 met must be evaluated prior to registration.

Prerequisite

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

Corequisite

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

Advisory

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

CHALLENGING PREREQUISITES AND COREQUISITES

If a student believes that any of the following conditions exist with regard to an existing course prerequisite or corequisite, the student may obtain a Petition to Challenge form from the Assessment Center in the Student Services Center.

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

The student must provide appropriate documentation when filing a challenge with the Director of Assessment and Matriculation. Documentation may include, but is not limited to, high school or college transcripts, additional test results, work experience, or an on-campus writing sample. Prior enrollment in the course does not exempt a student from the current prerequisite of that course.

Academic Policies and Requirements



Committed to Student Success

ACADEMIC POLICIES AND REQUIREMENTS

For detailed information regarding Mt. San Antonio College Board of Trustees Policies (BP) and Administrative Procedures (AP), go to http://www.mtsac.edu/administration/trustees/policies/bp_complete.pdf and http://www.mtsac.edu/administration/trustees/administrative-procedures.pdf

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 exercise 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 Procedure 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 on college-authorized field trips will not be penalized for absences incurred in other classes during the field trips (AP 4300).

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

It is the students' responsibility to drop or withdraw from courses they no longer attend. Students should check their schedule/receipt, available on the "My Mt SAC" portal for information regarding key dates. Dates vary and are often course specific.

Full 16-week courses

For 16 week courses, students who drop a class, withdraw from the college, or are dropped from a class by the professor by the Sunday at the end of the second week of classes will not receive any mark or notation on their permanent academic record.

Students who drop a class, withdraw from the college, or are dropped by the professor beginning Monday of the third week of a 16 week class will receive a mark of "W" (Withdrawal) on their permanent record.

Professors may not drop students from a class and students may not drop themselves from any class or withdraw from the college after 60% of the class has elapsed. All students who are registered for a class after 60% of the class has elapsed shall receive an academic grade (A,B,C,D,F,P,NP) or an Incomplete mark for the class.

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

Intersessions and other short term classes

For short term classes, students who drop a class, withdraw from college or are dropped from a class by the professor prior to the conclusion of the first 20% of the class will not receive any mark or notation on their permanent record.

Students who drop a class, withdraw from the college, or are dropped by the professor after 20% of the class has elapsed will receive a mark of "W" (Withdrawal) on their permanent record.

Professors may not drop students from a class and students may not drop themselves from any class or withdraw from the college after 60% of the class has elapsed. All students who are registered for a class after 60% of the class has elapsed shall receive an academic grade (A,B,C,D,F,P,NP) or an Incomplete mark for the class.

A "W" Withdrawal mark shall not be assigned to any student enrolled after the last day to drop a class except in the case of an approved petition due to 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 for the number of times allowable. In some cases, a group of courses may carry a collective limitation on the number of allowed repetitions for that entire group/cluster of courses (for example, when a similar educational activity is offered in beginning and advanced course levels.) To determine whether a course is repeatable, refer to Section 10, Course Descriptions, in this *Catalog*.

Repeating Courses Previously Passed

State Regulations do not allow students to repeat non-repeatable courses previously passed with satisfactory grades of "A," "B," "C," "Credit" or "Pass". Students with extenuating circumstances may file a Petition for Exceptional Action in the Admissions Office. Students who are allowed to repeat courses based on this provision will not earn additional units.

Limitations on Repeating Courses

Beginning with the Summer 2012 semester, students who have recorded a mark of "W", "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.

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.

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

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

Continuing Student:

 A continuing student is one who enrolls in at least one credit course and receives a grade, including a W in any term during the academic year.

Academic Policies and Requirements

 A continuing student retains rights to follow graduation and/or certificate requirements for the year they entered or any catalog thereafter, as long as the student maintains continuous enrollment.

Catalog Rights

- A student may use that initial catalog year or any subsequent catalog until the student petitions 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.
 - 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 primary 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 kinesiology, 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.
- 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 designated grading scale marks on his/her permanent records.

Incomplete

A student may file a petition for an Incomplete or the instructor may initiate the petition on behalf of the student who is currently passing the class under the following circumstances: verifiable illness or

GRADING SCALE					
Evaluative Symbol	Definition	Grade Point Value			
A	Excellent	4			
В	Good	3			
C	Satisfactory	2			
D	Passing	1			
	(less than satisfactory)				
F	Failing	0			
Pass	Passing (at least equivalent to a "C" grade. Units				
	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.)				
1	•				

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 approva 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 become a letter grade assigned by the instructor.

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

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

W — **Withdrawal:** Withdrawal from a class or classes shall be authorized through the last day of the 10th week of instruction of a regular semester-length class. No notation ("W" or other) shall be made on the academic record of the student who withdraws during the first three weeks of a

regular semester-length class. Withdrawal between the first day of the 4th week and the last day of the 10th week of instruction shall be recorded as a "W" on the student's record. The "W" shall not be used in calculating grade point averages, but excessive "W's" shall be used as factors in probation and dismissal procedures. Withdrawal from short term classes of less than semester length, but greater than six weeks, is authorized for a period of time through 60% of the course, and a mark of "W" shall be made on the student's academic record. 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 20% 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 System-Incomplete), shall be assigned the grade "F" or "Zero" for the examination, and this grade shall be averaged in determining the final course grade.

Pass/No Pass Grades

Some courses offered at Mt. San Antonio College are available to students on two different grading options: letter grade (A, B, C, D, F) or Pass/No Pass (Pass = A, B, or C; NP = D, F). A few classes are offered for Pass/No Pass only. These courses are designed to encourage students to explore areas outside their major field of study in order to broaden and enrich their collegiate experience, and to afford an opportunity for departments to offer courses in which there is diminished emphasis on grades. The Pass/No Pass grading option is not available for General Education courses or for courses used to meet major requirements. In courses offering the grading option, students are automatically registered on a letter grade basis at the time of registration. If a change is desired, the student can make the change on their student portal or in person with a picture ID at the Admissions and Records Office in the Student Services Center. The grading option may not be changed at a later date. Students enrolled in short-term courses of less

than semester length, but greater than six weeks, must determine their grading option no later than the end of the first 30% of the course or 30% of the required hours of instruction listed in the description for an openentry/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 (AP 4232). Courses taken for Pass/No Pass are not counted in calculating grade point average, or 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. (See also Board Policy BP 4230 and Administrative Procedure AP 4232)

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 Code of Regulations, students at Mt. San Antonio College may apply for Credit by Examination and such unit credit may be granted subject to the following rules and regulations:

Rules and Regulations

- 1. Credit by Examination will be granted only for those courses which have been so designated by the departments.
- Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."
- 3. A student may petition for Credit by Examination provided:
 - a. The student has been registered at Mt. San Antonio College.
 - The student has not already received credit nor is currently enrolled beyond six weeks in the same course or in a more advanced course (except for Advanced Placement Course Credit).
 - The student has at least a 2.0 grade point average. This includes transfer/new students.
- 4. The student may obtain the petition for Credit by Examination from the Division Office.
- 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.

ADVANCED PLACEMENT EXAMINATIONS						
AP Examination Score	Needed / GE/Equivalency	Mt. SAC GE Area	GE Units	Equivalent Mt. SAC Course	Degree Units	
Art History	3	C1 or C2	3	AHIS 4 + AHIS 5	6	
Biology	3	B2	3	BIOL 1	6	
Calculus AB	3/4	Math Competency	N/A	MATH 180	3	
Calculus BC	3/3/4	Math Competency	N/A	MATH 180 or MATH 181	6	
Chemistry	3	B1	3	None	6	
Chinese Language and Culture	3	C2	3	CHIN 1 + CHIN 2	6	
Computer Science A	3	N/A	N/A	CSCI 145	3	
Computer Science AB	3	N/A	N/A	None	6	
English Language and Composition	3	A1	3	ENGL 1A	6	
English Literature and Composition	3	A1 + C2	6	ENGL 1A + ENGL 1B	6	
Environmental Science	3	B1	3	None	4	
European History	3	C2 or D2	3	None	6	
French Language and Culture	3	C2	3	FRCH 1 + FRCH 2	6	
French Literature	3	C2	3	FRCH 3	6	
German Language and Culture	3	C2	3	GERM 1 + GERM 2	6	
Government and Politics: Comparati	ve 3	D2	3	None	3	
Government and Politics: US	3	D1	3	None	3	
Human Geography	3	D2	3	GEOG 2	3	
Italian Language and Culture	3	C2	3	ITAL 1 + ITAL 2	6	
Japanese Language and Culture	3	C2	3	JAPN 1 + JAPN 2	6	
Latin: Literature	3	C2	3	None	6	
Latin: Vergil	3	C2	3	None	3	
Macroeconomics	3/4	D2	3	BUSC 1A	3	
Microeconomics	3/4	D2	3	BUSC 1B	3	
<u>Music Theory</u>	3	C 1	3	MUS 7	6	
Physics B	3	B1	3	None	6	
Physics C: Electricity and Magnetism	3	B1	3	None	4	
Physics C: Mechanics	3	B1	3	None	4	
<u>Psychology</u>	3	D2	3	PSYC 1A	3	
Spanish Language	3	C2	3	SPAN 1 + SPAN 2	6	
Spanish Literature	3	C2	3	SPAN 3	6	
Statistics	3	Math Competency	N/A	MATH 110	3	
Studio Art- 2D		General education and course equivalency credit based on portfolio revew				
Studio Art- 3D		General education and course equivalency credit based on portfolio revew				
Studio Art- Drawing	3 Gen	eral education and co	urse equivalency cre	dit based on portfolio revew	3	
United States History	3	C2 or D2	3	HIST 1	6	
World History	3	C2 or D2	3	None	6	

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, and the Counseling Center.

Advanced Placement Credit for Mt. SAC General Education Requirements for the Associate Degree

Students who have a qualifying Advanced Placement (AP) test score (3 or above) may petition to utilize the results of their AP examinations to meet Mt SAC general education requirements in the areas identified in the table on page 13.

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 in the table. Only IB Higher Level (HL) certificate examinations with scores of 5, 6 or 7 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.

Credit for Extra Institutional Learning Philosophical Basis

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

General Policy Statement

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

The College will accept the recommendations of the American Council on Education in reference to the *Guide to the Evaluation of Educational Experiences in the Armed Services* and the *National Guide to College Credit for Workforce Training*; The College 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 twenty-four (24) units must be earned in courses that contribute to the grade point average.

INTERNATIONAL BACCALAUREATE PROGRAM							
International Baccalaureate (IB) Higher Level (HL) Exam	Score Needed Mt. SAC for Equivalency GE Area		Units of GE	Equivalent Mt. SAC Course	Degree Units		
IB Biology	5	B2	3	BIOL 1	6		
IB Chemistry	5	B1	3	None	6		
IB Economics	5	D2	3	BUSC 1A	6		
IB Geography	5	D2	3	GEOG 2	6		
IB History (any region)	5	C2 or D2	3	None	6		
IB Language A1 (English)	5	C2	3	None	6		
IB Language A2	5	C2	3	None	6		
IB Language A2 (Classical Languages)	5	C2	3	LATN 1	6		
IB Mathematics	4/5	Math Competency	N/A	MATH 160/MATH 180	6		
IB Physics	5	B1	3	None	6		
IB Psychology	5	D2	3	PSYC 1A	3		
IB Theatre Arts	5	C 1	3	THTR 9	6		

- Extra-institutional learning credit will normally not be evaluated unless the credit is necessary for graduation.
- Credit for non-collegiate courses will be awarded only for work applicable toward the Associate Degree. Credit may be granted for upper division courses provided the student has earned less than 60 units at the time the upper division work is attempted.
- To petition for extra-institutional learning credit, a student must have at least a 2.0 grade point average, not be on probation, and be in good standing.
- The permanent academic record shall be annotated in such a manner to insure that a true and complete history of extra-institutional 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 credit 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 Building 26A-1680, Ext. 4528

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, Chapman University, Pepperdine University and Pomona College. In addition to an enhanced curriculum for motivated students, Honors Program students receive library privileges at UC Irvine and UCLA 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, 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

Alpha Gamma Sigma

Mt. San Antonio College sponsors the Zeta Chapter of Alpha Gamma Sigma, the scholastic honorary organization for California Community Colleges. Full-time and part-time students are eligible for membership. Membership requires campus and community involvement (service hours).

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

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

Phi Theta Kappa

Mt. SAC sponsors the Alpha Omega Alpha Chapter of Phi Theta Kappa, an international scholastic honorary organization for two-year colleges. 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.
- Students who have maintained a 3.5 grade point average while a member.

There are several advantages which accompany this honor, including recognition at graduation and access to scholarships offered to members by more than 700 U.S. colleges and universities. For further information and review of academic eligibility, students should consult a Counselor or a Phi Theta Kappa advisor. Applications are available in the Honors Program office in Building 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", "I" and "NP" are recorded reaches or exceeds fifty percent.

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

Clearing Probation

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

Probation and Dismissal Status

- 1. Probation
 - 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
 - Continued Academic Probation occurs when the student in a second consecutive semester continues to have a cumulative grade point average below 2.0, or
 - b. Continued Progress Probation occurs when the student in a second consecutive semester continues to have a cumulative percentage of all units enrolled recorded as "W", "I" and "NP" at fifty percent or higher.

Academic Policies and Requirements

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.

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 coursework 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 ordered online through *http://my.mtsac.edu* student portal. The first two requests for transcripts are free; subsequent standard transcript requests are \$5.00 each. Unofficial/student copies of transcripts may be obtained at *http://my.mtsac.edu*.

Further information regarding transcript services is available at http://www.mtsac.edu/students/admissions/transcripts.html

SECTION FOUR

Student Services and Student Life

Committed to Student Success

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 is usually the first office prospective students visit and the last office students visit before transferring or graduating. Some of the services provided:

- Admission: All students must submit an application for admission in order to attend Mt. San Antonio College. The admission application generates a Permit to Register and establishes a historical student record for each student. Transcripts from other colleges must be submitted for prerequisite eliqibility checks.
- Course Registration: All registration is conducted online via the web at http://my.mtsac.edu. Registration instructions can be found in the current Schedule of Classes or online at http://mv.mtsac.edu.
- Admissions and Records is the official custodian of student records.
 This office maintains student demographic information such as name, address and Mt. SAC student identification number, student academic history, issues I-20's for International Students, processes Petitions for Exceptional Action, transcript and enrollment verification requests, graduation and certificate petitions and distributes diplomas and certificates.
- 4. Admissions and Records provides computers for student use located in the Student Services Building. These computers provide access to the student portal for students to print 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 Building 9D, 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 provide a combination of English, Reading, Math and/or Counseling courses for students seeking a unique learning experience and a strong sense of community.

Assessment Center Student Services Center, Ext. 4265

Students may complete required English, Reading, and Math placement testing in the Assessment Center. Assistance in reviewing course placement is also provided. **http://www.mtsac.edu/students/assessment**

The Bridge Program Building 9D, Ext. 5392

The Bridge Program is a learning community designed to increase student 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 professors. In this group setting, students have an opportunity to learn about being successful college students and how to utilize college services. Students are supported by Bridge Program staff and counselors, financial aid advisors, as well as transfer and advising specialists.

The Bridge Program is the right choice for students who find themselves undecided on career choices, have apprehensions about the transition to college and 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 Building 9A, Ext. 4960

The Bursar's Office is responsible for the collection of credit registration fees and other campus fees including parking permits, replacements, parking citation fees, enrollment verification and production cards. The office also processes photo ID cards and refunds for credit classes. Student fees may be paid via the web at http://my.mtsac.edu or in person at the Bursar's Office.

CalWORKs (California Work Opportunities and Responsibility to Kids)

Student Services Center, Ext. 4755

The CalWORKs Program at Mt. SAC is 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 a degree or certificate:

- 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) Student Services Center, Ext. 4500

CARE is a supplemental program for EOPS students who are single head of household parents receiving TANF benefits. The program 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 13 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.

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 career or transfer to a four-year university. Career and Transfer Services provides a variety of activities, events and resources to help students transfer to universities, solidify career goals, sharpen job acquisition skills, and acquire part- and 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

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 still attending. For more information, please go to *http://careerservices.mtsac.edu*.

Transfer Services include:

- Library of career and college guidebooks and university catalogs
- 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! For more information, please go to *http://transfer.mtsac.edu*.

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. Counselors are available to assist students who:

- are undecided about a major or career direction;
- need information about career and transfer options;
- are having difficulty in 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.

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 eliqibility determination will be made.

To take advantage of the wide array of special programs and services offered, 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 offered by DSP&S:

- 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)

Students with a doctor's verification which requires parking in zones designated as "handicapped parking," are required to apply for a "Disabled Person" permit and placard from the State of California Department of Motor Vehicles, if they don't already have one. Students with 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 and 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 the Department to determine if there are services that may be of assistance to them while attending Mt. San Antonio College.

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

Extended Opportunity Programs and Services (EOPS) 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 40 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**. 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:

- 1. Having a high school diploma or equivalent such as a GED.
- 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 for community college students to apply for Cal Grants. The second deadline is September 2nd. Additional information and eliqibility requirements are available at

https://mygrantinfo.csac.ca.gov/logon.asp

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

- Federal Perkins Loans
- Board of Governors Fee Waiver (BOGW)
- 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 return of Title IV funds requirements, will have financial aid eligibility recalculated based on the percentage of the semester completed, and will be required to repay any unearned financial aid received. At Mt. SAC a student's withdrawal date is determined as follows:

- the date the student officially notified the Admissions and Records Office of his or her intent to withdraw, or
- 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 academically-related activity, or
- 4) the date posted by the instructor indicating last day of attendance.

The California Community College Board of Governors Fee Waiver (BOGW) 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). 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 BOGW Fee Waiver application for a list of these classifications. To apply, go to

http://www.cccapply.org/bog_waiver/

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

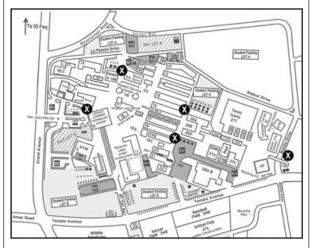
Mt. San Antonio College annually welcomes hundreds of international students on F-1 Visas to pursue a higher education. International students must complete and submit additional application materials and pay non-resident fees to study at the College. Specialized counseling assistance is available. Staff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

Public Safety Escort Service, Ext. 4555

Mt. San Antonio College offers a Security Escort Service from 6:30 p.m. to 10:15 p.m., Monday - Thursday. Trained personnel will escort students safely to their car. Escorts are stationed at various locations on campus and can be identified by their yellow jackets and I.D. badges. Please refer to the map below to identify Escort locations. Students may also request a Security Escort by calling (909) 274-4555.

Escort Location Map

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



Re-Entry Services Student Services Center, Ext. 4392

The Re-Entry Center offers services to students who are 25+ years old, single parents, homemakers, and vocational majors. The Re-Entry Center is located on the upper level of the Student Services Center. Referral service information is available for on and off-campus services. The Single Parent Academy is also coordinated through the Re-Entry Center. Students are invited to stop by the Center to relax, study, and make new friends.

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 Resource Center (VRC) Building 16C, Ext. 4520

The Veterans Resource Center (VRC) establishes an innovative, collaborative effort to ease the transition for student Veterans to Mt. SAC. Student VRC services include: a student Veterans lounge; student Veteran computer stations; one-on-one FAFSA assistance; one-on-one scholarship research/essay assistance; DSP&S Instructional Specialist; Educational/Career Counseling; one-on-one VA educational benefits assistance; one-on-one my.mtsac portal navigation assistance; and on and off-campus service referrals.

Veterans Service Center Student Services Center, Ext. 4520

The Veterans Services Center, located on the upper level of the Student Services Center, provides assistance to Veterans and dependents seeking educational and/or vocational training under Title 38, United States Code. The College cooperates with the U.S. Department of Veterans Affairs (VA) and with the California Department of Rehabilitation in assisting Veterans with certification of benefit requests. The College maintains the Veterans Services Center to assist Veterans and/or dependents in all matters pertaining to Veterans educational benefits.

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. "W's,""NC," and "F" grades are considered punitive grades. Adds, Drops, Withdrawals, and last day of attendance must be reported at once. The law requires that educational assistance benefits to Veterans and other eligible persons be discontinued when the student ceases to make satisfactory progress toward completion of his or her training objective. Please refer to the Mt. San Antonio College Probation and Dismissal Policies in this Catalog. The Veteran or dependent has the responsibility to adhere to these standards of attendance and progress and to notify the Veterans Services Center of any change in status that would affect the collecting of Veterans educational benefits.

Veterans and/or dependents must submit a "Veteran's Request for Active Educational Benefits" form each semester to the Veterans Services Center in order to request the continuance of VA educational benefits while attending Mt. SAC. Those eligible for priority registration consideration must submit a Discharge letter (DD Form 214 Member-4 or Service-2) to the Veterans Services Center. The VA 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 the Mt. SAC Admissions and Records Office. Students must visit the Counseling Center for assistance in completing an educational plan.

For step-by-step instructions in claiming and utilizing educational benefits at Mt. SAC, Veterans and dependents should download the "Veterans Packet" and all required forms at **www.mtsac.edu/students/veterans/**

STUDENT LIFE

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

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

Associated Students serves as the representative voice for students on all College issues and provides students with an opportunity to develop leadership skills. There are eight A.S. executive officer positions and twenty A.S. 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. 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. discounted amusement park and movie tickets. Associated Students meetings are held every Tuesday in the Student Center, Building 9C, Room 5, from 3:00 p.m. – 5:00 p.m.

A.S. Student Activities Fee

The Student Activities Fee is an \$11 fee collected every Fall and Spring Semester to provide numerous 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. Waiving this fee will exclude the student from taking advantage of these benefits. Applications for waivers are available on the Student Portal under Financial Services or in the Student Life Office for the first two weeks of the semester. Refunds will only be issued during the first two weeks of the semester.

Student Clubs and Organizations Building 9C, Ext. 4525

More than 50 student clubs and organizations provide opportunities to make friends, enhance learning, build leadership skills and have fun. An existing variety of clubs include recreational, social, cultural, religious and academic. The Inter-Club Council (ICC) is comprised of one representative from each student club and meets regularly to discuss club activities and formulate procedures to better serve the campus community. Join-A-Club is a three-day event at the beginning of each semester for students to learn more about co-curricular campus involvement opportunities. A current listing of student clubs and organizations is available online at *http://as.mtsac.edu*.

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 are available in the Student Life Office. This office also handles lost and found items, approves and enforces all on-campus postings, and assists in contacting students in emergency situations. The Associated Students (AS) offices are located here as well as club mailboxes.

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.

Student Life Center Building 9C, Ext. 5959

The Student Life Center provides a relaxing area to lounge, watch TV, and play foosball, ping pong, a variety of board games, or video games. Students also have access to free wireless Internet with their laptop. The Student Life 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 Life Center is also the place to find information about off-campus housing.

SECTION FIVE

Instruction and Learning Resources



Committed to Student Success

INSTRUCTION

Distance Learning Program, Ext. 5658

Distance Learning means taking classes that are conducted partially or entirely off-campus "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, submit completed work on time, and meet course expectations 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.

Work Experience Education, Ext.4204

Occupational work experience education is supervised work activity extending classroom-based occupational learning at an on-the-job learning station (work site) related 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 Education must:

- 1. Have the approval of the assigned work experience professor.
- 2. Have an occupational or educational goal to which, in the opinion of the professor, 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 professor, include new or expanded responsibilities or learning opportunities beyond those experienced during previous employment. Repetition of experiences in an ongoing job does not permit continued eligibility for the program.
- 4. Meet the following condition if self-employed: Identify a person who is approved by the professor 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 student must be, as verified by the supervising professor, enrolled in an occupational program directly related to the work experience assignment.

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

- 1. Unless otherwise determined, develop measurable learning objectives approved by the professor 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 professor of any work site problems or change in status of duties.
- Try at all times to represent themselves and the College positively while at the work site.
- 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, Ext. 5325

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 professor is present at all times. In addition, the Writing Center offers 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 grammar and writing skills using self-directed educational software. Professional software is loaded on all the computers to allow students to create presentations. Printing (black and white or color), scanning and technical assistance is also available.

Math Activities Resource Center (MARC) Building 61 - Room 1318, Ext. 5014

The MARC 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, Ext. 5389

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 and take-home use are available.

LIBRARY AND LEARNING RESOURCES

Learning Assistance Center Building 6, South Entrance, Lower Level, Learning Technology Center, Ext. 4300

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 course work in most subject areas and with 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 classroom instruction.

Library Building 6, North Entrance, Upper Level, Learning Technology Center, Ext. 4260

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 nearly 25,000 full-text books. Reserves allow faculty to provide continuous access to course materials free of charge to students.

The library faculty teach information competency through courses, customized classes, drop-in workshops and individualized instruction at the reference desk. The librarians at the library information desk can assist with all aspects of the research process from choosing a topic to searching for and evaluating information in print and electronic formats.

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 outstanding faculty and student artists.

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.

Athletic Facilities, Ext. 4630

Hilmer Lodge Stadium, a 13,500-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, volleyball courts, cross-country course, baseball field, softball field, soccer field, a 1,500-seat gymnasium, wrestling gym, strengthtraining facilities, an Olympic size swimming pool, and an Exercise Science/Wellness Center.

Bookstore (SacBookRac) Building 9A, Ext. 4475

Students are responsible for obtaining their own textbooks and supplies. Expenses for books and supplies for a full-time student average \$300-\$600 per semester, depending upon the program of study selected. Students are encouraged to buy books early, especially if they are interested in purchasing used books (first-come/first-served).

SacBookRac offers basic textbooks, general trade and paperback books, sundries, greeting cards, soft goods, gifts, and Metro and Foothill bus passes. SacBookRac also provides ordering and distribution of faculty caps and gowns.

Refund Policy

Refunds are allowed within a 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 Building 9E, Ext. 4920

Admission Policy

Childcare and education services for children from 3 months through 5 years of age 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 3- and 4-year-old children (4-year-old children have priority). There may be a minimum daily fee for this program.

General Childcare Funding

This program is available on a limited basis for eligible student/parents. There may be a minimum daily fee 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. Final acceptance into the program will be determined when eligibility has been established, 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, consult the current Mt. San Antonio College Schedule of Classes or contact the Child Development Center.

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.

Offerings will be provided to students, staff and the community on a fee-based, per-class basis. Please see *http://communityed.mtsac.edu* for course offerings.

Farm

F Buildings, Ext. 4540

The Farm is located in the northeast area of campus, near the intersection of Bonita and Walnut Drives. The Farm offers an unrivaled opportunity for student learning serving as a laboratory and supervised farm. Students interested in stock breeding, veterinary science, agri-business, horse production, field crop production, horticulture, or farm products gain valuable experience by working with their own animals and crops while attending Mt. SAC. Contact the 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, and four convenience stores.

Campus Café Building 8, Ext. 5284

The Campus Café is located on the west side of campus next to the SacBookRac. Catering is available for small meetings and large banquets. Subversions - sub sandwiches, soups, wraps, healthy options, and daily specials.

Castillo's Mexican Grill - fresh tacos, burritos, and salads.

Simply to Go - made fresh "in-house" sandwiches, salads, wraps, healthy snacks, and cookies.

Chef's Corner - daily fresh breakfast and lunch menu.

Pizza Stop - individual pizzas, flatbread pizza, and fresh made pasta bowls.

Common Grounds featuring Starbucks - we proudly brew hot and cold coffee drinks, frappuccino, fresh baked muffins, scones, and brownies.

Campus Facilities

WOW at Mountie Grill Building 19C, Ext. 4624

WOW Cafe and Wingery - breakfast, wings, chicken, hamburgers, salads and rice bowls.

Convenience Stores

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

Mountie Stop

Building 9A

Express Stop

Building 16A

Prime Stop

Building 61

Short Stop

Building 66

Vending Machines

Buildings 2, 3, 9C, 23, 26, 28, 30, 31, 40, 45, 47, 50G, 60, 67, 80

Performing Arts Center Building 2, Ext. 2050

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 is designed as a technological, state-of-the-art instructional facility to prepare Mt. San Antonio College students for careers in the performing arts.

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

The Music Recital Hall provides for intimate musical performances. The Recital Hall is a 250-seat 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 venue is 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.

All tickets are non-refundable. 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.

Randall Planetarium Building 26C, Ext. 4425

The Randall Planetarium offers instructional support for college classes as well as a wide variety of public programs on a regular basis. The Planetarium facility has a 35-foot-diameter hemispherical dome and seating for up to 75 people.

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 Campus Events office at Ext. 4794.

SECTION SEVEN

Programs of Study Leading to a Certificate

Committed to Student Success

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 four-year 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

Mt. San Antonio College also awards Certificates of Competency and Occupational Training Certificates of Completion for certain non-credit programs of study. Information on these certificates may be found on pages 214-223.

CERTIFICATES OF ACHIEVEMENT Children's Program Certificate: Administration.... 37 Children's Program Certificate: Children's Program Certificate: Computer and Networking Aircraft Powerplant Maintenance Computer and Networking Aircraft Powerplant Maintenance Computer Graphics – Multimedia Specialist 38 Airframe Maintenance Technology — Day............. 31 Computer Systems Technology.......39 Airframe Maintenance Technology — Evening 32 Animation – 2-D Multimedia...... 32 Architectural Technology — Design **Electronics and Computer** Architectural Technology — Design Architectural Technology — Technology **Emergency Medical** Technician — Paramedic (EMT-P) 41 Architectural Technology — Technology Engineering Design Technology — Level I 42 Engineering Design Technology — Level II 42 Business: Human Resource Engineering Design Technology — Level III 42 Business: Human Resource Graphic Design.......44 Business: Retail Management – Level II............. 36 Business: Retail Management – Level III............ 36 **Business: Small Business** Hospitality: Hospitality Business: Small Business Hospitality: Restaurant

CERTIFICATES OF ACHIEVEMENT (CONTINUED)			
Interior Design Kitchen and Bath Specialization 44 Interior Design: Level II	adio Broadcasting: Behind the Scenes		
Landscape Equipment Technology 46 Tel Landscape Irrigation 46 Tre Law Enforcement 46 Wa Livestock Management 46 Wa Manufacturing Technology 46 Wa Mental Health Technology 47 Wa Microcomputer Productivity Software 48 Wa Nursery Management 48 Wa Park Management 48 Wa Pet Science 48 Photography 48 Programming in C++ 48	elevision Production		

SKILLS CE	RTIFICATES
Accounting – Bookkeeping 51	Fashion Des
Accounting – Payroll	Fitness Spec
Administrative Assistant – Level I	Gallery Desi
Athletic Trainer Aide I	Hospitality:
Business: Human Resource	Hospitality:
Management – Level I	Manager
Business: International – Level I	Hospitality:
Business: Management – Level I	Managei
Business: Retail Management – Level I	Information
Business: Small Business	Interior Des
Management – Level I53	Introduction
Children's Program	Informat
Certificate: General – Level I	LVN 30-Unit
CIS Professional Certificate	Machine Op
in C++ Programming53	MasterCAM
CIS Professional Certificate in Database	Nutrition Pr
Management – Microcomputers 53	Nutrition Pr
CIS Professional Certificate	Child Pro
in Java Programming53	Nutrition Pr
CIS Professional Certificate in LINUX53	Weight A
CIS Professional Certificate	Pilates Profe
in Network Security53	Mat and
CIS Professional Certificate in Networking 54	Radio Broad
CIS Professional Certificate in Object-Oriented	– Behind
Design & Programming54	Radio Broad
CIS Professional Certificate in SQL54	Welding
CIS Professional Certificate	
in Telecommunications 54	
CIS Professional Certificate	
in Visual Basic Programming54	
CIS Professional Certificate	
in Web Programming 54	
CIS Professional Certificate in Windows Operating	
System Administration 54	
Coaching 54	
Computer Graphics Technology Proficiency 55	
Culinary Arts — Level I55	
Dance Teacher 55	
Electronic Assembly and Fabrication 55	
Electronic Systems Technology — Level I 55	
Emergency Medical Technician — Level I 55	

Fashion Design — Computer-Aided	. 56
Fitness Specialist/Personal Trainer	. 56
Gallery Design/Operation and Art Profession	. 56
Hospitality: Food Services	
Hospitality: Hospitality	
Management – Level I	. 56
Hospitality: Restaurant	
Management – Level I	. 57
Information and Operating Systems Security	. 57
Interior Design: Level I	. 57
Introduction to Computer	
Information Technology	. 57
LVN 30-Unit Option — Career Mobility Track	. 57
Machine Operator	. 58
MasterCAM	. 58
Nutrition Program Assistant — Level I	. 58
Nutrition Program Assistant — Level II:	
Child Program Emphasis	. 58
Nutrition Program Assistant — Level II:	
Weight Management Program Emphasis	. 58
Pilates Professional Teacher Training Phase I:	
Mat and Reformer	. 59
Radio Broadcasting Fundamental	
— Behind-the-Scenes	. 59
Radio Broadcasting Fundamental — On-Air	. 59
Welding	. 59

Accounting Business Division Certificate T0502

The Accounting Certificate incorporates various accounting courses that prepare the student for entry level positions and/or professional advancement in a wide variety of accounting jobs. These jobs include general accounting, cost accounting, payroll, inventory management, asset management, credit and collections, financial analysis, etc.

Required Courses:

Completion of Accounting Financial Planning coursework (21 Units) or Accounting Managerial coursework (19 Units).

Plus the following courses:

	Total Units	25.0 - 27.0
BUSM 20	Principles of Business	3.0
BUSA 70	Payroll and Tax Accounting	3.0
BUSA 52	Intermediate Accounting	3.0

Additional Notations

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

Accounting - Computerized Business Division 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.

Required Courses:

nequired courses.		
BUSA 7	Principles of Accounting - Financial	5.0
	<u>or</u>	
BUSA 72	Bookkeeping - Accounting	5.0

	Total Units 18.5 - 1	19.5
CISW 11	Internet Technologies	4.0
CISB 21	Microsoft Excel	3.0
CISB 13	Microsoft Windows	2.0
CISB 11	Computer Information Systems	3.5
BUSA 81	Work Experience in Accounting	1.0
Select 3.5	Units from:	
CISB 15	Microcomputer Applications	4.0
BUSA 81	<u>or</u> Work Experience in Accounting	1.0
	Accounting	
BUSA 76	Using Microcomputers in Managerial	1.
BUSA 81	Work Experience in Accounting	1.
	or	
טטא דט	Accounting	1.
Required BUSA 75	Using Microcomputers in Financial	1.0
BUSO 25	Business Communications	3.
21150 05	<u>or</u>	_
BUSO 5	Business English	3.
BUSA 81	Work Experience in Accounting	1.
BUSA 53	Ten-Key Calculations or	2.

Accounting - Financial Planning

Business Division 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.

Required Courses:

Kequirea	Courses:	
BUSA 7	Principles of Accounting - Financial	5.0
BUSA 8	Principles of Accounting - Managerial	5.0
BUSA 58	Federal Income Tax Law	3.0
BUSA 71	Personal Financial Planning	3.0
BUSA 75	Using Microcomputers in Financial	1.0
	Accounting	
	<u>or</u>	
BUSA 81	Work Experience in Accounting	1.0
BUSA 76	Using Microcomputers in Managerial	1.0
	Accounting	

	<u>or</u>	
BUSA 81	Work Experience in Accounting	1.0
BUSO 25	Business Communications	3.0
	Total Units	21.0

Accounting - Managerial Business Division Certificate L0533

The Accounting - Managerial Accounting Certificate provides basic accounting skills and knowledge concentrating in the area of managerial accounting. This prepares the student for entry-level positions within the managerial accounting segment. Common duties performed in this field include cost analysis, budget preparation, variance analysis, expense reporting, account analysis and preparation of various internal reports to help management make decisions.

Principles of Accounting - Financial

Required Courses:

RIISA 7

ו אכטע	i illiciples of Accounting - I illancial	5.0
BUSA 8	Principles of Accounting - Manageria	5.0
BUSA 21	Cost Accounting	4.0
BUSA 75	Using Microcomputers in Financial	1.0
	Accounting	
	<u>or</u>	
BUSA 81	Work Experience in Accounting	1.0
BUSA 76	Using Microcomputers in Managerial	1.0
	Accounting	
	<u>or</u>	
BUSA 81	Work Experience in Accounting	1.0
BUSO 25	Business Communications	3.0
	Total Units	19.0

Administrative Assistant - Level II Business Division Certificate L0594

The Level II Certificate prepares students for clerical positions where, in addition to general office skills, written communication and advanced word processing skills are needed.

Required Courses:

Completion of the Administrative Assistant-Level 1 coursework as follows: (13.0 Units)

BUSO 5	Business English	3.0
CISI 11	Computer Keyboarding	3.0
CISB 15	Microcomputer Applications	4.0
CISI 41	Office Management Skills	3.0
PLUS the Level II coursework as follows: (6.0		
Units)		
BUSO 25	Business Communications	3.0

3.0

19.0

Administrative Assistant - Level III

Microsoft Word

Total Units

Business Division Certificate T0517

CISB 31

5.0

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

Required Courses:

Completion of the Administrative Assistant -Level I coursework as follows: (13)

rever i co	react i contremotivas tottoms. (12)			
BUSO 5	Business English	3.0		
CISB 15	Microcomputer Applications	4.0		
CISI 11	Computer Keyboarding	3.0		
CISI 41	Office Management Skills	3.0		
Completion of the Administrative Assistant -				
Level II coursework as follows: (6.0 Units)				
BUSO 25	Business Communications	3.0		

CISB 31 Microsoft Word 3.0 PLUS the Level III coursework as follows: (10.0 linits)

Units)		
CISB 21	Microsoft Excel	4.0
CISB 51	Microsoft PowerPoint	3.0
CISB 61	Desktop Publishing Software	3.0
	Total Units	29.0

Air Conditioning and Refrigeration

Technology and Health Division 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.

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 and Standards	3.0
AIRC 20	Refrigeration Fundamentals	4.0
AIRC 25	Electrical Fundamentals	5.0
	for Air Conditioning and Refrigeration	1
AIRC 26	Gas Heating Fundamentals	2.0
AIRC 30	Heat Load Calculations & Design	4.0
AIRC 31	Commercial Electrical	4.0
	for Air Conditioning and Refrigeration	1
AIRC 32A	Air Properties and Measurement	1.5
AIRC 34	Advanced Mechanical Refrigeration	4.0
	Total Units	31.5

Aircraft Powerplant Maintenance Technology - Day Certificate T0982

Technology and Health Division

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 or evening 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 reguired for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Required	Courses:	
AIRM 65A	Aircraft Powerplant Maintenance	13.0
	Technology	
AIRM 65B	Aircraft Powerplant Maintenance	13.0
	Technology	
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
	Total Units	41.0
Recomme	nded Electives:	
AIRM 74	Aircraft Maintenance Technology	2.0
	- Work Experience	
AIRM 80	Lab Studies in Aircraft Maintenance	0.5
	Technology	
EDT 12	Technical Engineering Drawing II	3.0
PHYS 1	Physics	4.0

Aircraft Powerplant Maintenance Technology - Evening Certificate T0952

Technology and Health Division

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 or evening 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.

Required Courses:

nequireu	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 Maintenance	3.0
	Technology	
AIRM 95B	Aircraft Powerplant Maintenance	3.0
	Technology	

AIRM 96A	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 96B	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 97A	•	3.0
	Technology	
AIRM 97B	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 98A	•	3.0
	Technology	
AIRM 98B	Aircraft Powerplant Maintenance	3.0
	Technology	
	Total Units	39.0
Recomme	ended Electives:	
AIRM 74	Aircraft Maintenance Technology	2.0
	- Work Experience	
AIRM 80	Lab Studies in Aircraft Maintenance	0.5
	Technology	
EDT 12	Technical Engineering Drawing II	3.0
PHYS 1	Physics	4.0

Airframe Maintenance **Technology - Day Certificate T0991**

Technology and Health Division

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 or evening 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

Programs of Study Leading to a Certificate

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.

Required Courses:

AIRM 66A	Airframe Maintenance Technology	13.0
AIRM 66B	Airframe Maintenance Technology	13.0
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 71	Aviation Maintenance Science	6.0
AIRM 72	Aviation Materials and Processes	1.5
AIRM 73	Aviation Welding	1.5
	Total Units	41.0
Recomme	nded Electives	
AIRM 74	Aircraft Maintenance Technology - Work Experience	2.0
AIRM 80	Lab Studies in Aircraft Maintenance	0.5
AINIVI OU	Technology	0.5
EDT 12		3.0

Airframe Maintenance Technology - Evening

Technology and Health Division 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, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to complete

the program. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

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

Required Courses:

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
AIRM 90A	Airframe Maintenance Technology	3.0
AIRM 90B	Airframe Maintenance Technology	3.0
AIRM 91A	Airframe Maintenance Technology	3.0
AIRM 91B	Airframe Maintenance Technology	3.0
AIRM 92A	Airframe Maintenance Technology	3.0
AIRM 92B	Airframe Maintenance Technology	3.0
AIRM 93A	Airframe Maintenance Technology	3.0
AIRM 93B	Airframe Maintenance Technology	3.0
	Total Units	39.0
Recomme	ended Electives	
AIRM 74	Aircraft Maintenance Technology	2.0
	- Work Experience	
AIRM 80	Lab Studies in Aircraft Maintenance	0.5
	Technology	
EDT 12	To all and and Experience of the Department II	2.0
	Technical Engineering Drawing II	3.0
PHYS 1	Physics	3.0 4.0

Alcohol/Drug Counseling Technology and Health Division

Certificate T2101

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

Required Courses:

ı	nequireu	courses.	
	AD 1	Alcohol/Drug Dependency	3.0
	AD 2	Physiological Effects of Alcohol/Drugs	3.0
	AD 3	Chemical Dependency: Intervention,	3.0
		Treatment and Recovery	
	AD 4	Issues in Domestic Violence	3.0
	AD 5	Chemical Dependency: Prevention	1.5
		and Education	
	AD 6	Dual Diagnosis	3.0
	Required :	skill courses:	
	AD 8	Group Process and Leadership	3.0
	AD 9	Family Counseling	3.0
	AD 10	Client Record and Documentation	1.5
	AD 11	Techniques of Intervention	3.0
		and Referral	
	Required 1	field work courses:	
	AD 13	Internship/Seminar	4.0
	AD 14	Advanced Internship/Seminar	4.0
	Select two	(2) courses from:	
	CHLD 10	Child Growth and Development	3.0
		<u>or</u>	
	CHLD 10H	Child Growth and Development	3.0
		- Honors	
	PSYC 1A	Introduction to Psychology	3.0
		<u>or</u>	
	PSYC 1AH	$Introduction\ to\ Psychology-Honors$	3.0
	PSYC 19	Abnormal Psychology	3.0
	SOC 1	Sociology	3.0
		<u>or</u>	
	SOC 1H	Sociology — Honors	3.0
	SOC 14	Marriage and the Family	3.0
		<u>or</u>	
	SOC 14H	Marriage and the Family - Honors	3.0
	SOC 15	Child Development	3.0
		Total Units	41.0
1			

Selection Procedure

All classes are open to all students who meet admission requirements and course prerequisites.

Special Instructions

Restricted Electives must be taken prior to enrollment in Field Experience and can be taken in conjunction with core and skills courses.

Working Environment:

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

English Language Skills:

Although proficiency in English is not a criterion 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

Arts Division 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 technologybased 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.

Required Courses:

ANIM 101A	Drawing - Gesture and Figure	3.0
ANIM 104	Drawing Fundamentals	3.0
ANIM 108	Principles of Animation	3.0
ANIM 115	Storyboarding	3.0
ANIM 116	Character Development	1.5
ANIM 120	Script Development for Animation	3.0
ANIM 130	Introduction to 3-D Computer	3.0
	Animation	
ANIM 131	Introduction to Gaming	3.0
ANIM 172	Motion Graphics, Compositing	3.0
	and Visual Effects	
ANIM 175	Web Animation With Flash	3.0
ARTC 290	Portfolio	3.0
ARTC 100	Graphic Design I	3.0
	Total Units	34.5
D .	I LEL C	

December and ad Flootings

Kecomme	naea Electives:	
ANIM 109	Advanced Principles of Animation	3.0
ANIM 121	Nature and History of Animation	3.0
ANIM 137A	Work Experience in New Digital Media	1.0
ANIM 148	Demo-Reel	1.5
ARTD 16	Drawing: Perspective	3.0
ARTD 17A	Drawing: Life	3.0
ARTD 20	Design: Two Dimensional	3.0
PHOT 10	Basic Digital and Film Photography	3.0

Animation – 3D and CG Gaming Arts Division 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 technologybased 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.

R

Required (Courses:	
ANIM 101A	Drawing - Gesture and Figure	3.0
ANIM 104	Drawing Fundamentals	3.0
ANIM 108	Principles of Animation	3.0
ANIM 115	Storyboarding	3.0
ANIM 116	Character Development	1.5
ANIM 130	Introduction to 3-D Computer Animation	3.0
ANIM 131	Introduction to Gaming	3.0
ANIM 132	Modeling, Texture Mapping	3.0
	and Lighting	
ANIM 136	Animation Environment Layout	3.0
ANIM 148	Demo-Reel	1.5
ANIM 172	Motion Graphics, Compositing	3.0
	and Visual Effects	
ARTC 100	Graphic Design I	3.0
PLUS one	of the following courses:	
ANIM 145	Advanced 3-D Modeling	3.0
ANIM 146	Advanced 3-D Animation	3.0
	Total Units	39.0
Recomme	nded Electives	
ANIM 109	Advanced Principles of Animation	3.0
ANIM 120		3.0
ANIM 137A	Work Experience in New Digital Media	1.0
ANIM 175		3.0
ARTC 290	Portfolio	3.0

Animation - Traditional Arts Division Certificate T1010

ARTD 17A Drawing: Life

ARTD 20

PHOT 10

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.

Design: Two Dimensional

Basic Digital and Film Photography

3.0

3.0

3.0

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 technologybased 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.

Required Courses

Required (Lourses:	
ANIM 101A	Drawing - Gesture and Figure	3.0
ANIM 104	Drawing Fundamentals	3.0
ANIM 108	Principles of Animation	3.0
ANIM 109	Advanced Principles of Animation	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
ANIM 120	Script Development for Animation	3.0
ANIM 175	Web Animation With Flash	3.0
ARTC 290	Portfolio	3.0
ARTC 100	Graphic Design I	3.0
ARTD 16	Drawing: Perspective	3.0
ARTD 17A	Drawing: Life	3.0
ARTD 23A	Drawing: Head and Hands	1.5
	Total Units	10.5
Recomme	nded Electives:	
ANIM 107	Figure in Motion	3.0
ANIM 130	Introduction to 3-D Computer	3.0
	Animation	
ANIM 121	Nature and History of Animation	3.0
ANIM 131	Introduction to Gaming	3.0
ANIM 137A	Work Experience in New Digital Media	1.0
ANIM 172	Motion Graphics, Compositing	3.0
	and Visual Effects	
ARTS 22	Design: Three-Dimensional	3.0
PHOT 10	Basic Digital and Film Photography	3.0

Architectural Technology - Level I Technology and Health Division 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 for 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.

Required Courses:

ARCH 10	Design I - Elements of Design	3.0
ARCH 11	Architectural Drawing	3.0
ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 16	Basic CAD and Computer Application	1 4.0
Plus the fo	ollowing courses: (8 Units)	
ENGL 68	Preparation for College Writing	4.0
MATH 51	Elementary Algebra	4.0
	Total Units	22.0

Architectural Technology - Design Concentration Level II Technology and Health Division Certificate T0205

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

Required Courses:

Completion of the Architectural Technology Level I coursework (22 Units)

LCVCI I CO	uisework (22 oilits)	
ARCH 10	Design I - Elements of Design	3.0
ARCH 11	Architectural Drawing	3.0
ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 16	Basic CAD and Computer Application	4.0
ENGL 68	Preparation for College Writing	4.0
MATH 51	Elementary Algebra	4.0
PLUS (18	Units)	
ARCH 13	Architectural Illustration	3.0
ARCH 21	Design II - Architectural Design	3.0
ARCH 23	Architectural Presentations	3.0
ARCH 31	World Architecture I	3.0
ARCH 32	World Architecture II	3.0
ARCH 15	Architectural Working Drawings - I	3.0
	<u>or</u>	
ARCH 18	Architectural CAD and BIM	3.0

Programs of Study Leading to a Certificate

PLUS Select one (1) course from:			
ARTD 15A	Drawing: Beginning	3.0	
ARTD 20	Design: Two-Dimensional	3.0	
ARTS 22	Design: Three-Dimensional	3.0	
	Total Units	43.0	

Architectural Technology - Design Concentration Level III **Technology and Health Division Certificate T0206**

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

Required Courses:

Completion of the Architectural Technology Design Concentration Level I and Level II coursework: (43 Units)

coursewo	rk: (45 Ullits)	
ARCH 10	Design I - Elements of Design	3.0
ARCH 11	Architectural Drawing	3.0
ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 16	Basic CAD and Computer Application	4.0
ENGL 68	Preparation for College Writing	4.0
MATH 51	Elementary Algebra	4.0
ARCH 13	Architectural Illustration	3.0
ARCH 21	Design II - Architectural Design	3.0
ARCH 23	Architectural Presentations	3.0
ARCH 31	World Architecture I	3.0
ARCH 32	World Architecture II	3.0
ARCH 15	Architectural Working Drawings - I	3.0
	<u>or</u>	
ARCH 18	Architectural CAD and BIM	3.0
ARTD 15A	Drawing: Beginning	3.0
	<u>or</u>	
ARTD 20	Design: Two-Dimensional	3.0
	<u>or</u>	
ARTS 22	Design: Three-Dimensional	3.0
PLUS the f	following Level III courses: (6 Unit	s)
ARCH 27	Design III - Environmental Design	3.0
ARCH 29	Design IV - Advanced Project	3.0

Select one (1) course from: (1-3 Units)				
ARCH 14	Building and Zoning Codes	3.	0	
ARCH 15	Architectural Working Drawings	i-I 3.	0	
ARCH 18	Architectural CAD and BIM	3.	0	
ARCH 26	Architectural CAD Working Draw	vings 3.	0	
ARCH 28	Architectural CAD Illustration	3.	0	
	and Animation			
ARCH 89	Architectural Work Experience	1.	0	
INSP 70	Elements of Construction	3.	0	
	Total Units 5	0.0 - 52.	0	

Architectural Technology

- Technology Concentration Level II

Technology and Health Division **Certificate T0203**

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

Required Courses:

Completion of the Architectural Technology Level 1 coursework (22 Units)

ARCH 10	Design I - Elements of Design	3.0
ARCH 11	Architectural Drawing	3.0
ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 16	Basic CAD and Computer Application	4.0
ENGL 68	Preparation for College Writing	4.0
MATH 51	Elementary Algebra	4.0
PLUS the Architectural Technology-Technology		
Concentration Level II courseworks (10 Ilmits)		

PLUS the Architectural Technology-Technology		
Concentration Level II coursework: (18 Units)		
ARCH 14	Building and Zoning Codes	3.0
ARCH 15	Architectural Working Drawings - I	3.0
ARCH 18	Architectural CAD and BIM	3.0
ARCH 26	Architectural CAD Working Drawings	3.0
EDT 20	Technical Descriptive Geometry	3.0
INSP 70	Elements of Construction	3.0

PLUS Sele	ct one (1) course from: (4 Units)	
PHYS 1	Physics	4.0
	<u>or</u>	
PHYS 2AG	General Physics	4.0
	Total Units	44.0

Architectural Technology - Technology Concentration Level III

Technology and Health Division Certificate T0204

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

Required Courses:

Completion of the Architectural Technology Level I and II coursework (44 Units)

ARCH 10	Design I - Elements of Design	3.0
ARCH 11	Architectural Drawing	3.0
ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 16	Basic CAD and Computer Application	4.0
ENGL 68	Preparation for College Writing	4.0
MATH 51	Elementary Algebra	4.0
ARCH 14	Building and Zoning Codes	3.0
ARCH 15	Architectural Working Drawings - I	3.0
ARCH 18	Architectural CAD and BIM	3.0
ARCH 26	Architectural CAD Working Drawings	3.0
EDT 20	Technical Descriptive Geometry	3.0
INSP 70	Elements of Construction	3.0
PHYS 1	Physics	4.0
	<u>or</u>	
PHYS 2AG	General Physics	4.0
Plus the f	ollowing courses: (6 Units)	
ARCH 28	Architectural CAD Illustration	3.0
	and Animation	
ARCH 29	Design IV - Advanced Project	3.0
PLUS Sele	ct one (1) course from: (1-3 Units)	
ARCH 13	Architectural Illustration	3.0
ARCH 21	Design II - Architectural Design	3.0
ARCH 23	Architectural Presentations	3.0
ARCH 31	World Architecture I	3.0

	Total Units 51.0 - 5	3.0
INSP 71	Construction Estimating	3.0
EDT 26	Civil Engineering Technology and CAD	3.0
ARCH 89	Architectural Work Experience	1.0
ARCH 32	World Architecture II	3.0

Building Automation

Technology and Health Division Certificate T0309

This program is designed to prepare the student for a career in the fields of Building Automation, Energy Management, and Green Building Technologies. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

AIRC 20	Refrigeration Fundamentals	4.0
AIRC 25	Electrical Fundamentals	5.0
	for Air Conditioning and Refrigeratio	n
AIRC 31	Commercial Electrical	4.0
	for Air Conditioning and Refrigeratio	n
AIRC 34	Advanced Mechanical Refrigeration	4.0
AIRC 61	Building Automation Fundamentals	2.5
AIRC 63	Building Control Networks	3.0
AIRC 65	Building Automation Networks	3.0
	and Programming	
AIRC 67	Energy Management	4.0
CISN 11	Telecommunications Networking	4.0
CISW 41	XML Secure Programming	3.0
CISW 49	Service Oriented Architecture	3.0
	Concepts & Practice	
	Total Units	39.5

1.0

2.0

2.0

Business: Human Resource Management - Level II

Business Division 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.

Required Courses:

Completion of the Business: Human Resource Management - Level I coursework (9 Units). Level I as follows: (9 Units)

BUSM 20	Principles of Business	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSM 62	Human Resource Management	3.0
PLUS the	Level II courses as follows: (9 Uni	its)
ANTH 22	General Cultural Anthropology	3.0
BUSM 60	Human Relations in Business	3.0
BUSO 25	Business Communications	3.0
	Total Units	18.0

Special Information:

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

Business: Human Resource Management - Level III

Business Division Certificate L0535

Students completing the Level III Certificate will have knowledge and practical experience in business communications and computer use. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern human resource management. Completing the advanced certificate will help those working in the human resource field to prepare for professional certification by the Human Resource Certification Institute.

Required Courses:

Completion of Business: Human Resource Management - Level I and Level II coursework. Level I as follows: (9 Units) BUSM 20 Principles of Business 3.0

BUSM 61	Business Organization	3.0
	and Management	
BUSM 62	Human Resource Management	3.0
Level II as	s follows: (9 Units)	
ANTH 22	General Cultural Anthropology	3.0
BUSM 60	Human Relations in Business	3.0
BUSO 25	Business Communications	3.0
Plus the L	evel III courses as follows: (7 Un	its)
BUSA 70	Payroll and Tax Accounting	3.0
CISB 15	Microcomputer Applications	4.0
	Total Units	25.0

Special Information:

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

Business: International - Level II Business Division

Certificate L0597

In the Business: International - Level II Certificate students will learn methods and approaches to managing the complexities of doing business in an international environment. Students acquire both theoretical knowledge and practical skills related to managing and marketing within the global arena. Students active in the workforce will acquire new skills that are highly desirable in a fast-paced dynamic global environment, with an emphasis on the small business perspective.

Required Courses:

Completion of the Business: International -Level I coursework as follows: (9 Units)

		,		
	BUSM 20	Principles of Business	3.0	
	BUSM 51	Principles of International Business	3.0	
	BUSS 36	Principles of Marketing	3.0	
Plus Level II as follows: (6 Units)				
	BUSM 61	Business Organization	3.0	
		and Management		
		and management		

BUSM 66 Small Business Management

PLUS Select one (1) course from: (4 Units)

SPAN 1	Elementary Spanish	4.0
JAPN 1	Elementary Japanese	4.0
ITAL 1	Elementary Italian	4.0
GERM 1	Elementary German	4.0
FRCH 1	Elementary French	4.0
CHIN 1	Elementary Chinese	4.0

Special Information:

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

Business: International - Level III Business Division Certificate L0528

Upon completion of the Business: International Level III Certificate, students will have acquired the specific skills needed to successfully complete international business transactions. Students will gain a practical, hands-on perspective of how to compete in a global system of conflicting laws, regulations, and requirements. Completion of the Business: International -Level I and II coursework (19 Units) as follows:

Required Courses:

Level I as follows: (9 Units) DUCM 20 Duinginles of Duginess

BUSM 20	Principles of Business	3.0		
BUSM 51	Principles of International Business	3.0		
BUSS 36	Principles of Marketing	3.0		
Level II as	s follows: (6 Units)			
BUSM 61	Business Organization	3.0		
	and Management			
BUSM 66	Small Business Management	3.0		
PLUS Sele	PLUS Select one (1) course from: (4 Units)			
CHIN 1	Elementary Chinese	4.0		
FRCH 1	Elementary French	4.0		
GERM 1	Elementary German	4.0		
ITAL 1	Elementary Italian	4.0		
JAPN 1	Elementary Japanese	4.0		
SPAN 1	Elementary Spanish	4.0		
PLUS Additional required courses: Level III as				
follows: (9 Units)				

BUSL 20 International Business Law

3.0

Recommended Electives:				
	Total Units 2	8.0		
BUSM 52	Principles of Exporting and Importing	3.0		
ANTH 22	General Cultural Anthropology	3.0		
	<u>or</u>			
BUSM 50	World Culture: A Business Perspective	3.0		

BUSS 85 Special Issues in Marketing **Special Information:**

BUSM 81

BUSM 85

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

Work Experience in Business

Special Issues in Business

Business: Management - Level II

Business Division

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.

Required Courses:

Completion of Business: Management - Level I

coursewo	rk as follows: (9 Units)	
BUSM 20	Principles of Business	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSS 36	Principles of Marketing	3.0
Plus the I	evel II courses as follows: (10	Units)
BUSM 60	Human Relations in Business	3.0
BUSM 62	Human Resource Management	3.0

Special Information:

Total Units

CISB 15

3.0

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

Microcomputer Applications

4.0

19.0

Business: Management - Level III Business Division Certificate T0526

Upon completion of the Business: Management -Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. Students will have a strategic perspective of production, marketing, accounting, international business and human resources. Completion of the Business: Management - Level III Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a management career.

Required Courses:

Completion of Business: Management - Level I coursework as follows: (9 Units)

	in as iononsi (> onits)				
BUSM 20	Principles of Business	3.0			
BUSM 61	Business Organization	3.0			
	and Management				
BUSS 36	Principles of Marketing	3.0			
Completio	Completion of the Business: Management -				
Level II co	Level II coursework as follows: (10 Units)				
BUSM 60	Human Relations in Business	3.0			
BUSM 62	Human Resource Management	3.0			
CISB 15	Microcomputer Applications	4.0			
Dluc the I	evel III courses as follows: (11 Unit	·c)			

Plus the Level III courses as follows: (11 Units)

	Total Units	3U U
BUSM 51	Principles of International Business	3.0
	Quality Improvement	
BUSM 10	Principles of Continuous	3.0
BUSA 7	Principles of Accounting - Financial	5.0

Special Information:

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

Business: Retail Management - Level II

Business Division Certificate L0591

This intermediate certificate builds upon the Level I Certificate to expose students to the various functions of managers in retail positions. Fundamentals of business organization, retail marketing and staffing provides the student a solid foundation from which to build a career in retail management.

Required Courses:

Completion of the Retail Management - Level I coursework as follows: (10 Units)

BUSO 25	Business Communications	3.0
BUSS 50	Retail Store Management	3.0
	and Merchandising	
	<u>or</u>	
FASH 62	Retail Store Management	3.0
	and Merchandising	
CISB 15	Microcomputer Applications	4.0
Plus the Level II courses as follows: (12 Units)		
BUSA 11	Fundamentals of Accounting	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSM 62	Human Resource Management	3.0
BUSS 36	Principles of Marketing	3.0
	Total Units	22.0
Special Ir	oformation:	

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

Business: Retail Management - Level III

Business Division Certificate T0521

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 as follows: (10 Units)

BUSO 25	Business Communications	3.0
BUSS 50	Retail Store Management	3.0
	and Merchandising	
	<u>or</u>	
FASH 62	Retail Store Management	3.0
	and Merchandising	
CISB 15	Microcomputer Applications	4.0
Completion	on of the Retail Management - Le	vel II
coursewo	rk as follows: (12 Units)	
BUSA 11	Fundamentals of Accounting	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSM 62	Human Resource Management	3.0
BUSS 36	Principles of Marketing	3.0
Plus the Level III courses as follows: (11 Units)		
BUSA 7	Principles of Accounting - Financial	5.0
BUSM 60	Human Relations in Business	3.0
BUSO 26	Oral Communications for Business	3.0
	Total Units	33.0

Special Information:

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

Business: Small Business Management - Level II

Business Division Certificate L0588

The Business: Small Business Management - Level II Certificate provides students with practical small business tools. This certificate focuses on issues such as motivation, teamwork, and leadership skills that lead to enhanced productivity through the development of people. Completion of this certificate will lead to new career opportunities for those currently employed in the small business arena.

Required Courses:

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

Principles of Business	3.0		
Small Business Management	3.0		
Principles of Marketing	3.0		
Plus the Level II courses as follows: (9 Units)			
Human Relations in Business	3.0		
Business Organization	3.0		
and Management			
Human Resource Management	3.0		
Total Units	18.0		
	Small Business Management Principles of Marketing Level II courses as follows: (9 Un Human Relations in Business Business Organization and Management Human Resource Management		

Special Information:

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

Business: Small Business Management - Level III

Business Division Certificate T0590

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

Required Courses:

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

BUSM 20 Principles of Business

agement - Level II coursework as follows:				
Completion of Business: Small Business Man-				
BUSS 36	Principles of Marketing	3.0		
BUSM 66	Small Business Management	3.0		

agement - Level II coursework as follows: (9 Units)

,				
BUSM 60	Human Relations in Business	3.0		
BUSM 61	Business Organization	3.0		
	and Management			
BUSM 62	Human Resource Management	3.0		
Plus the Level III courses as follows: (12 Units)				
BUSA 7	Principles of Accounting - Financial	5.0		
BUSM 10	Principles of Continuous	3.0		
	Quality Improvement			

Special Information:

Total Units

CISB 15

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

Microcomputer Applications

Children's Program Certificate: Administration

Business Division Certificate T1313

The Children's Program Certificate: Administration Specialization is designed for the student who desires general knowledge about Early Childhood Development and skills in administering programs for young children. This certificate meets or exceeds Title 22 education requirements for Center Director. Direct experience with children is highly recommended to complete preparation to be an effective administrator.

Required Courses

3.0

4.0

CHLD 73

CHLD 50

30.0

Completion of Childrens Program Certificate: General - Level II as follows: (19 units)

dellerai - i	Level II as Iviivws. (17 uiiits)	
CHLD 1	Child, Family, School and Community	3.0
CHLD 5	Principles/Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 10	Child Growth and Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth and Development	3.0
	- Honors	
CHLD 64	Health, Safety and Nutrition	3.0
	of Young Children	
CHLD 68	Children With Special Needs	3.0
CHLD 84	Guidance and Discipline	1.0
	in Child Development Settings	
PLUS Sele	ct three (3) courses from: (9 units)	
CHLD 61	Language Arts and Art Media	3.0
	for Young Children	
CHLD 62	Music and Motor Development	3.0
	for Young Children	
CHLD 63	Creative Sciencing and Math	3.0

for Young Children

Programs

for ECD Programs

PLUS Additional required courses: (11 units)

Teaching in a Diverse Society

CHLD 71A Administration of Child Development 3.0

CHLD 71B Management/Marketing/Personnel 3.0

Infant/Toddler Care and Development 3.0

3.0

CHLD 75 Supervising Adults in Early Childhood 2.0 Settings

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

BUSM 66	Small Business Management	3.0
CHLD 72	Teacher, Parent,	3.0
	and Child Relationships	
CHLD 73	Infant/Toddler Care and Developmen	t 3.0
CHLD 82	Advocacy in Child Development	1.0
CHLD 83	Current Issues in Child Development	1.0
	Total Units	43.0

Children's Program Certificate: General - Level II

Business Division Certificate L1328

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

Required Courses:

Completion of Children's Program Certificate: General - Level I coursework: (12 Units)

	CHLD 1	Child, Family, School and Community	3.0
	CHLD 5	Principles/Practices	3.0
		in Child Development Programs	
	CHLD 6	Survey of Child Development	3.0
		Curriculum	
	CHLD 10	Child Growth and Development	3.0
		<u>or</u>	
	CHLD 10H	Child Growth and	3.0
		Development - Honors	
Plus the Level II courses as follows: (7 Units)			
	CHLD 64	Health, Safety and Nutrition	3.0
		of Young Children	

3.0

1.0

19.0

CHLD 68	Children With Special Needs
CHLD 84	Guidance and Discipline
	in Child Development Settings
	Total Units

Children's Program Certificate: General - Level III

Business Division Certificate L1327

This third level of the Children's Program Certificate: General is expected to meet or exceed Title 5 education requirements for Assistant Teacher, Associate Teacher, and Teacher (with 16 units of G.E.)

Required Courses:

Completion of Children's Program Certificate: General - Level I and Level II coursework (19 Units)

CHLD 1	Child, Family, School and Community	3.0
CHLD 5	Principles/Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 10	Child Growth and Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Development - Honors	
CHLD 64	Health, Safety and Nutrition	3.0
	of Young Children	
CHLD 68	Children With Special Needs	3.0
CHLD 84	Guidance and Discipline	1.0
	in Child Development Settings	
DITIC Coloct throa (3) Loyal III courses from:		

PLUS Select three (3) Level III courses from: (9 Units)

(9 Units)		
CHLD 50	Teaching in a Diverse Society	3.0
CHLD 61	Language Arts and Art Media	3.0
	for Young Children	
CHLD 62	Music and Motor Development	3.0
	for Young Children	
CHLD 63	Creative Sciencing and Math	3.0
	for Young Children	
CHLD 73	Infant/Toddler Care and Developmen	t 3.0
	Total Units	28.0

Children's Program Certificate: Teaching

Business Division Certificate T1312

The Children's Program Certificate: Teaching Specialization is designed for the student who desires knowledge about Early Childhood Development and skills for teaching young children. This certificate meets or exceeds Title 22 education requirements for fully qualified teachers and is expected to meet or exceed Title 5 education requirements for Teacher Level (with 16 units of G.E. English, Math or Science, Social Science and Humanities).

Required Courses:

nequirea	Courses		
CHLD 1	Child, Family, School and Community	3.0	
CHLD 5	Principles/Practices	3.0	
	in Child Development Programs		
CHLD 6	Survey of Child Development	3.0	
	Curriculum		
CHLD 10	Child Growth and Development	3.0	
	<u>or</u>		
CHLD 10H	Child Growth	3.0	
	and Development - Honors		
CHLD 64	Health, Safety and Nutrition	3.0	
	of Young Children		
CHLD 68	Children With Special Needs	3.0	
CHLD 84	Guidance and Discipline	1.0	
	in Child Development Settings		
Plus the following courses: (14 Units)			
CHLD 50	Teaching in a Diverse Society	3.0	
CHLD 66	Early Childhood Development	2.0	
	Observation		
CHLD 66L	Early Childhood Development	1.0	
	Observation Laboratory		
CHLD 67			
	Early Childhood Development	2.0	
	Early Childhood Development Participation	2.0	
CHLD 67L		2.0	
CHLD 67L	Participation		
CHLD 67L CHLD 69	Participation Early Childhood Development		
	Participation Early Childhood Development Participation Laboratory	1.0	
	Participation Early Childhood Development Participation Laboratory Early Childhood Development	1.0	
CHLD 69	Participation Early Childhood Development Participation Laboratory Early Childhood Development Field Work Seminar	1.0	

CHLD 91	Early Childhood Development Field Work	1.0
PLUS Sele	ct two (2) courses from: (6 Units)	
CHLD 51	Early Literacy in Child Development	3.0
CHLD 61	Language Arts and Art Media	3.0
	for Young Children	
CHLD 62	Music and Motor Development	3.0
	for Young Children	
CHLD 63	Creative Sciencing and Math	3.0
	for Young Children	
	Total Units	39.0

Computer and Networking **Technology - Level I**

Technology and Health Division Certificate L0795

The Computer and Networking Technology Level I and Il 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. Level I certificate students learn to install, configure, maintain, troubleshoot, and repair computers and networks. With further preparation leading to the Level II certificate, students will ready themselves for the CompTIA Network+, Server+, and Security+ certification tests. 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.

Dominad Courses

Kequirea Courses:		
CNET 50	PC Servicing	4.0
CNET 52	PC Operating Systems	4.0
CNET 54	PC Troubleshooting	4.0
CNET 60	A+ Certification Preparation	2.0
ELEC 11	Technical Applications	3.0
	in Microcomputers	
	<u>or</u>	

	Total Units	29.0 - 30.0
ELEC 56	Digital Electronics	4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 50A	Electronic Circuits (DC)	4.0
CISB 15	Microcomputer Applications	4.0
l		

Computer and Networking Technology - Level II

Technology and Health Division **Certificate T0726**

The Computer and Networking Technology Level I and Il 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.

Required Courses:

Completion of the Computer and Networking Technology - Level I coursework as follows: (29-30 Units)

CNET 50	PC Servicing	4.0
CNET 52	PC Operating Systems	4.0
CNET 54	PC Troubleshooting	4.0
CNET 60	A+ Certification Preparation	2.0
ELEC 11	Technical Applications	3.0
	in Microcomputers	
CISB 15	Microcomputer Applications	4.0
ELEC 50A	Electronic Circuits (DC)	4.0
ELEC 50B	Electronic Circuits (AC)	4.0
	<u>or</u>	

ELEC 56	Digital Electronics	4.0	
Plus the I	evel II courses as follows: (11 Unit	s)	
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 for the Technician	1.0	
	Total Units 40.0 - 4	41.0	
Recommended Electives			
ELEC 51	Electronic Devices	4.0	
ELEC 74	Microcontroller Systems	4.0	
EST 54	Cabling and Wiring Standards	4.0	

Computer Graphics - Multimedia Specialist

Arts Division Certificate

The Multimedia Specialist Certificate provides the professional computer graphic training by developing two and three dimensional digital imagery characterized by the fusion of artistic and technical theories, and the mastery of craft skills and techniques in audio and video content. Additionally, students will receive preparation for careers involving aspects of technological development and design. Because of their training and experience, multimedia specialists will have the ability to start up their own business or work with a company specializing in multimedia technology to become animators, systems analysts, layout designers, webmasters, and internet researchers. Other careers involve filmmakers, photographers, multimedia artists, directors, and computer game designers. Courses typically cover a wide range of topics from creating photorealistic 3D models and environments, storyboarding, object animation, creating and editing audio loops, videos, and preparing multimedia presentations; and other software and hardware processes involved in producing digital multimedia content. Students pursuing a Baccalaureate Degree should be guided in their selections of lower-division courses by an advisor of the institution they expect to apply to.

GRAP 8	Fundamentals of Digital Media	3.0
GRAP 10	Photoshop Imagery	3.0

GRAP 12	Photoshop Imagery Extended	3.0
GRAP 18	3D Graphics Imagery	3.0
GRAP 20	Multimedia Graphics	3.0
GRAP 30	Digital Productions	3.0
GRAP 40	Computer Graphics Special Topics	2.0
	Total Units	20.0

This achievement certificate presents students and professional practitioners with a series of courses offering 2D, 3DE and multimedia content preparation skills and mastery.

Computer Graphics

- Print Specialist

Arts Division Certificate

The Print Specialist Certificate provides professional computer graphics training developing two-dimensional digital imagery characterized by the fusion of artistic and technical theories, and the mastery of craft skills and techniques. Additionally, students will receive preparation for careers in what has traditionally been referred as to the printing business which encompasses many segments: general commercial printing pre-press; quick printing or personal e-publishing activities; digital imaging; magazine, newspaper and book printing; financial and legal printing; screen printing; thermography; business forms printing; label and tag printing; packaging; greeting cards; and trade and finishing services. Courses typically cover a wide range of topics from practical color management, workflow, image editing, electronic publishing and other software and hardware processes involved in producing two-dimensional digital imagery. Students pursuing a Baccalaureate Degree should be guided in their selection of lower-division courses by an advisor of the institution they expect to apply to.

Required Courses:

GRAP8	Fundamentals of Digital Media	3.0
GRAP 9	Digital Color Management	3.0
GRAP 10	Photoshop Imagery	3.0
GRAP 15	InDesign Graphics	3.0
GRAP 16	Illustrator Graphics	3.0
GRAP 30	Digital Productions	3.0

GRAP 40	Computer Graphics Special Topics	2.0
	Total Units	20.0

This achievement certificate presents students and professional practitioners with a series of courses offering commercial graphics, digital and electronic printing and publishing skills and mastery.

Computer Systems Technology Technology and Health Division 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.E. 4th Class Technician license

Required Courses:

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

Construction Inspection

Technology and Health Division 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

Required Courses:

ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 14	Building and Zoning Codes	3.0
INSP 17	Legal Aspects/Construct	3.0
INSP 70	Elements of Construction	3.0
INSP 71	Construction Estimating	3.0
INSP 87	Fund Construct Inspect	3.0
MATH 51	Elementary Algebra	4.0
	Total Units	23.0
Recomme	nded Electives:	
ARCH 11	Architectural Drawing	3.0
ARCH 15	Architectural Working Drawings - I	3.0
EDT 26	Civil Engineering Technology and CAI	3.0
INSP 67	Reading Construction Drawings	3.0

Consumer Relations

Business Division Certificate B0326

This program provides semi-professional traing for those who seek immediate Consumer Relations employment in non-profit agencies, government, education, or business such as utilities, telecommunications, and finance. Positions include, but are not limited to: consumer affairs representatives, client related government jobs, and community advocates.

Required Courses:

kequirea Courses:		
FCS 41	Life Management	3.0
FCS 80	Personal Financial Planning	3.0
	<u>or</u>	
BUSA 71	Personal Financial Planning	3.0
FCS 51	Consumer Skills, Issues,	3.0
	and Strategies	
BUSO 25	Business Communications	3.0
BUSO 26	Oral Communications for Business	3.0
	Totals Units	15.0

Correctional Sciences

Technology and Health Division 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.

ADJU 68	Administration of Justice	3.0	
	Report Writing		
CORS 10	Introduction to Correctional Sciences	3.0	
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 (4) courses from: (12 Units)			
ADJU 1	The Administration of Justice System	3.0	

PLUS Select four (4) courses from: (12 Units)		
ADJU 1	The Administration of Justice System	3.0
ADJU 2	Principles and Procedures	3.0
	of the Justice System	
ADJU 20	Principles of Investigation	3.0
ADJU 38	Narcotics Investigation	3.0
ADJU 59	Gangs and Corrections	3.0
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
Recomm	ended Electives:	
l		

	lotal Units	30.0
Recomm	ended Electives:	
KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire Te	chnolog
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice	
	and Fire Technology	
KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Tec	hnology
	and Forestry	

Digital Photographic Technician Arts Division 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.

Required Courses:

GRAP 9	Digital Color Management	3.0
GRAP 10	Photoshop Imagery	3.0
PHOT 10	Basic Digital and Film Photog	raphy 3.0
PHOT 11	Professional Photography	4.0
PHOT 14	Commercial Lighting	3.0
PHOT 20	Color Photography	3.0
PHOT 25	Digital Capture Workflow	3.0
PHOT 30	Commercial and Illustrative	3.0
	Photography	
	Total Units	22.0 - 25.0

Recommended Electives:

CISB 16	Macintosh Applications	2.0
GRAP 12	Photoshop Imagery Extended	3.0
PHOT 1	Laboratory Studies: Black and White	1.0
	Photography	
PHOT 29	Studio Business Practices	3.0
	for Commercial Artists	

Electronic Systems Technology - Level II

Technology and Health Division 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.

Required Courses:

ELEC 11	Technical Applications in Microcomputers	3.0
	<u>or</u>	
CISB 15	Microcomputer Applications	4.0

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
Plus the fo	ollowing courses: (9 Units)	
EST 56	Home Theater, Home Integration	4.0
	& Home Security Systems	
EST 62	Electronic Troubleshooting- I	4.0
TECH 60	Customer Relations for the Technician	1.0
PLUS Select one (1) course from: (2-4 Units)		
EST 64	Electronic Troubleshooting - II	4.0
EST 70	C-7 Low Voltage Systems	2.0
	License Preparation	
	Total Units 26.0 - 2	9.0
Recomme	nded Electives:	
ELEC 61	Electronic Assembly and Fabrication	3.0
ELEC 62	Advanced Surface Mount Assembly	2.0
	and Rework	

Electronics and Computer - Engineering Technology

Technology and Health Division 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

Students completing the ECET certificate program possess ample skills to make them versatile employees. Typical technician-level job classifications include

experiences.

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.).

Required Courses:

Technical Applications	3.0
in Microcomputers	
Computer Simulation	2.0
and Troubleshooting	
Electronic Circuits (DC)	4.0
Electronic Circuits (AC)	4.0
Electronic Devices	4.0
Communications Circuits	4.0
Industrial Electronics	4.0
Industrial Electronic Systems	3.0
Microwave Communications	4.0
Digital Electronics	4.0
Electronic Assembly and Fabrication	3.0
Microcontroller Systems	4.0
Customer Relations for the Technician	1.0
Total Units	44.0
ended Electives:	
Programming in Visual Basic	4.0
Technical Engineering Drawing I	3.0
	in Microcomputers Computer Simulation and Troubleshooting Electronic Circuits (DC) Electronic Devices Communications Circuits Industrial Electronics Industrial Electronic Systems Microwave Communications Digital Electronics Electronic Assembly and Fabrication Microcontroller Systems Customer Relations for the Technician Total Units Ended Electives: Programming in Visual Basic

Advanced Surface Mount Assembly

Radio Telephone Communications

Electronics Communications

Technology and Health Division Certificate T0904

and Rework

PHYS 2AG General Physics

ELEC 62

ELEC 76

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 satel-

lite 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 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.

Required Courses:

ELEC 11	Technical Applications	3.0
	in Microcomputers	
ELEC 12	Computer Simulation	2.0
	and Troubleshooting	
ELEC 50A	Electronic Circuits (DC)	4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Electronic Devices	4.0
ELEC 53	Communications Circuits	4.0
ELEC 55	Microwave Communications	4.0
ELEC 56	Digital Electronics	4.0
ELEC 61	Electronic Assembly and Fabrication	3.0
TECH 60	Customer Relations for the Technician	1.0
	Total Units	33.0

Electronics Technology

2.0

3.0

4.0

Technology and Health Division 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.

Kequirea	Kequirea Courses:		
ELEC 11	Technical Applications	3.0	
	in Microcomputers		
ELEC 12	Computer Simulation	2.0	
	and Troubleshooting		
ELEC 50A	Electronic Circuits (DC)	4.0	

ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Electronic Devices	4.0
ELEC 56	Digital Electronics	4.0
ELEC 61	Electronic Assembly and Fabrication	3.0
TECH 60	Customer Relations for the Technician	1.0
	Total Units 2	25.0

Electronics: Industrial Systems

Technology and Health Division 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.

Required Courses:

nequired .	touises.	
ELEC 11	Technical Applications	3.0
	in Microcomputers	
ELEC 12	Computer Simulation	2.0
	and Troubleshooting	
ELEC 50A	Electronic Circuits (DC)	4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Electronic Devices	4.0
ELEC 54A	Industrial Electronics	4.0
ELEC 54B	Industrial Electronic Systems	3.0
ELEC 56	Digital Electronics	4.0
ELEC 61	Electronic Assembly and Fabrication	3.0
TECH 60	Customer Relations for the Technician	n 1.0
	Total Units	32.0

Emergency Medical Technician - Paramedic (EMT-P)

Technology and Health Division 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.

Required Courses:

EMS 10	Anatomy and Physiology	2.0
	for Paramedics	
EMS 20	Emergency Cardiac Care	1.0
	for Paramedics	
EMS 30	Pharmacology for Paramedics	2.5
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	37.5

Recommended Electives:		
ADJU 1	The Administration of Justice System	
FIRE 1	Fire Protection Organization	
PSYC 1A	Introduction to Psychology	
	<u>or</u>	
PSYC 1AH	Introduction to Psychology - Honors	
SOC 1	Sociology	
	<u>or</u>	
SOC 1H	Sociology - Honors	

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 program. 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:

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 Degrees of Reading Power reading test at least 10 working days before the start of the pre-courses EMS 1 and EMS 2. Placement examinations will be individually assessed to determine eligibility or the pre-courses. The placement test is administered by the Assessment Center, located in the Student Services Center.
- 6) Successful completion of EMS 1, Paramedic Fundamentals and Selection and EMS 2, Preparation for Paramedic Program.
- 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 its agents.

ALL APPLICANTS ARE EXPECTED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE PARAMEDIC PROGRAM.

Physical Demands:

- Perform prolonged, extensive or considerable standing/walking, lifting, positioning, pushing, and or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling and crouching

Sensory Demands:

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

Working Environment:

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

English Language Skills:

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

Engineering Design Technology

- Level I

Technology and Health Division Certificate L0900

The Engineering Design Technology Level I Certificate is designed to prepare students for entry-level employment in the technical and computer-aided drafting design fields. Upon completion of the Level I Certificate, students will be prepared in fundamental working practices related to the technical design field. Required Courses:

	EDT 11	Technical Engineering Drawin	g l	3.0
	EDT 12	Technical Engineering Drawin	g II	3.0
	EDT 14	Mechanical Design		3.0
		- Geometric Dimensioning and	d Toleran	cing
	EDT 16	Basic CAD and Computer Appl	ications	4.0
	EDT 18	Engineering CAD Applications	í	4.0
PLUS Select one (1) course from: (2-4 Units)				
	ELEC 50A	Electronic Circuits (DC)		4.0
	MFG 11	Manufacturing Processes I		2.0
		Total Units	19.0 - 2	1.0

Special Information:

Students interested in pursuing transfer and a Bachelor's Degree in Engineering or Engineering Technology are advised to verify with each transfer institution specific requirements for transfer and appropriate courses. Requirements vary depending on specialty and institution and may include areas such as math at the levels of calculus or trigonometry at a minimum. See the Mt. SAC catalog under either Engineering or Surveying for a list of transferable engineering courses.

Engineering Design Technology - Level II

Technology and Health Division Certificate T0915

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

Required Courses:

Level I as follows: (19-21 Units)

Level I as	Level I as follows: (19-21 Units)			
EDT 11	Technical Engineering Drawing I	3.0		
EDT 12	Technical Engineering Drawing II	3.0		
EDT 14	Mechanical Design	3.0		
	- Geometric Dimensioning and Tol	erancing		
EDT 16	Basic CAD and Computer Applicati	ions 4.0		
EDT 18	Engineering CAD Applications	4.0		
ELEC 50A	Electronic Circuits (DC)	4.0		
	<u>or</u>			
MFG 11	Manufacturing Processes I	2.0		
Plus the fo	ollowing courses: (12-14 Units)			
EDT 20	Technical Descriptive Geometry	3.0		
EDT 24	Engineering CAD 3-D Solids	3.0		
	and Surfaces			
ELEC 50A	Electronic Circuits (DC)	4.0		
	<u>or</u>			
MFG 11	Manufacturing Processes I	2.0		
ELEC 50B	Electronic Circuits (AC)	4.0		
	Total Units 31.	0 - 35.0		

Engineering Design Technology - Level III

Technology and Health Division Certificate T0916

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

Required Courses:

Level I as follows: (19-21 Units)

EDT 11 Technical Engineering Drawing I

EDT 12	Technical Engineering Drawing II	3.0
EDT 14	Mechanical Design	3.0
	- Geometric Dimensioning and Toleran	cing
EDT 16	Basic CAD and Computer Applications	4.0
EDT 18	Engineering CAD Applications	4.0
ELEC 50A	Electronic Circuits (DC)	4.0
	<u>or</u>	
MFG 11	Manufacturing Processes I	2.0
Level II as	follows: (12-14 Units)	
EDT 20	Technical Descriptive Geometry	3.0
EDT 24	Engineering CAD 3-D Solids	3.0
	and Surfaces	
ELEC 50A	Electronic Circuits (DC)	4.0
	<u>or</u>	
MFG 11	Manufacturing Processes I	2.0
ELEC 50B	Electronic Circuits (AC)	4.0
Plus the fo	ollowing courses: (6 Units)	
EDT 26	Civil Engineering Technology and CAD	3.0
EDT 28	Engineering CAD 3-D	3.0
	Illustration/Animation	
	Total Units 37.0 - 4	1.0

Escrow Management

Business Division Certificate L0511 Required Courses:

neganea	Courses	
BUSA 11	Fundamentals of Accounting	3.0
BUSR 50	Real Estate Principles	3.0
BUSR 51	Legal Aspects of Real Estate	3.0
BUSR 76	Escrow Procedures I	3.0
BUSR 77	Escrow Procedures II	3.0
CISB 15	Microcomputer Applications	4.0
	Total Units	19.0

Fashion Design - Level I Business Division

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 entertain-

ment industry that support the largest number of employees and contributes significantly to the economy of the region.

Required Courses:

	Total Units	18.0
	and Product Development I	
FASH 30	Fashion Design	3.0
FASH 25	Fashion Computer-Assisted Drawing	3.0
FASH 17	Textiles	3.0
FASH 15	Fashion and Identity	3.0
FASH 10	Clothing Construction I	3.0
FASH 8	Introduction to Fashion	3.0

Recommended Electives:

FASH 24	Fashion Patternmaking by Computer	3.0
FASH 26	Fashion Computer Assisted Design	2.0
FASH 35	Special Topics in Fashion Design	2.0
FASH 81	Work Experience in Fashion	1.0
FASH 90	Field Studies	1.0
FASH 91	Field Studies - New York	2.0
FASH 92	Field Studies - Fashion Capitals	3.0

Fashion Design - Level II

Business Division 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.

Required Courses:

Level I as follows: (18 Units)

	,	
FASH 8	Introduction to Fashion	3.0
FASH 10	Clothing Construction I	3.0
FASH 15	Fashion and Identity	3.0
FASH 17	Textiles	3.0
FASH 25	Fashion Computer-Assisted Drawing	3.0

FASH 30	Fashion Design and Product	3.0
	Development I	

Plus the Level II coursework as follows: (21 Units				
FASH 9	History of Costume and Fashion	3.0		
FASH 12	Clothing Construction II	3.0		
FASH 20	Illustration for Fashion	3.0		
	and Costume Design			
FASH 21	Patternmaking I	3.0		
FASH 22	Fashion Design By Draping	3.0		
FASH 23	Patternmaking II	3.0		
FASH 24	Fashion Patternmaking by Computer	3.0		
	Total Units	39.0		
_				

Recommended Flectives

vecomm	enaeu ciecuves.	
FASH 26	Fashion Computer Assisted Design	2.0
FASH 35	Special Topics in Fashion Design	2.0
FASH 81	Work Experience in Fashion	1.0
FASH 90	Field Studies	1.0
FASH 91	Field Studies - New York	2.0
FASH 92	Field Studies - Fashion Capitals	3.0

Fashion Merchandising - Level I Business Division 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.

Required Courses:

FASH 8	Introduction to Fashion	3.0
FASH 10	Clothing Construction I	3.0
FASH 15	Fashion and Identity	3.0
FASH 17	Textiles	3.0
FASH 25	Fashion Computer-Assisted Drawing	3.0
FASH 30	Fashion Design	3.0
	and Product Development I	
	Total Units	18.0
Recomme	'	18.0
Recomme FASH 81	Total Units	18.0 1.0
	Total Units nded Electives:	
FASH 81	Total Units nded Electives: Work Experience in Fashion	1.0
FASH 81 FASH 90	Total Units nded Electives: Work Experience in Fashion Field Studies	1.0

Fashion Merchandising - Level II Business Division 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.

Required Courses:

Completion of the Fashion Merchandising -Level I coursework as follows: (18 Units)

	insertoric as rollows (10 office)		
FASH 8	Introduction to Fashion	3.0	
FASH 10	Clothing Construction I	3.0	
FASH 15	Fashion and Identity	3.0	
FASH 17	Textiles	3.0	
FASH 25	Fashion Computer-Assisted Drawing	3.0	
FASH 30	Fashion Design	3.0	
	and Product Development I		
Plus the Level II coursework as follows:			

(12 Units)

FASH 9	History of Costume and Fashion	3.0
FASH 62	Retail Store Management	3.0
	and Merchandising	
	<u>or</u>	
BUSS 50	Retail Store Management	3.0
	and Merchandising	
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
Recomme	ended Electives:	
FASH 81	Work Experience in Fashion	1.0
FASH 90	Field Studies	1.0

FASH 90	Field Studies
FASH 91	Field Studies - New York
FASH 92	Field Studies Field Studies - New York Field Studies - Fashion Capitals

Fire Technology

Technology and Health Division 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.

Required Courses:

Docommo	nded Electives:		
	•	23.5 - 3	7 N
	for the Basic Fire Academy		
KINF 53	Physical Training		2.5
FIRE 86	Basic Fire Academy	1	4.5
FIRE 12	Wildland Fire Control		4.5
FIRE 11	Fire App & Equipment		3.0
FIRE 10	Arson and Fire Investigation		3.0
FIRE 9	Fire Hydraulics		3.0
	and Management		
FIRE 8	Fire Company Organization		3.0
FIRE 7	Fire Tactics & Strategy		3.0
PLUS Selec	ct two (2) courses from: (5.5-	19 Uni	ts)
FIRE 6	Hazardous Materials/ICS		3.0
FIRE 5	Fire Behavior and Combustion		3.0
	for Fire Protection		
FIRE 4	Building Construction		3.0
FIRE 3	Fire Protection Equipment and S	ystems	3.0
FIRE 2	Fire Prevention Technology		3.0
FIRE 1	Fire Protection Organization		3.0

2.0

3.0

Kecomm	enaea Electives:	
KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire T	echnology
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice and Fire T	echnology
KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Te	chnology,
	and Forestry	

Graphic Design

Arts Division Certificate T0321

This program is designed to prepare students for careers in the Graphic Design field of Communication Art. Students will be given a balanced blend of creative, design, and technology skills necessary to develop successful graphic design for print, web, and other media channels. The production software will be driven by industry needs.

Required Courses:

ARTC 100	Graphic Design I	3.0
ARTC 120	Graphic Design II	3.0
ARTC 140	Graphic Design III	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
ARTC 280	Commercial Art Studio - Special Projects	4.0
ARTC 290	Portfolio	3.0
ARTD 20	Design: Two Dimensional	3.0
PHOT 4	Digital Cameras and Composition	1.0
Plus selec	t (1) course from: (3 Units)	
ANIM 104	Drawing Fundamentals	3.0
ANIM 130	Introduction to 3-D	3.0
	Computer Animation	
ANIM 172	Motion Graphics, Compositing	3.0
	and Visual Effects	
ARTC 165	Illustration	3.0
ARTD 21	Design: Color and Composition	3.0
	Total Units	35.0

Horse Ranch Management

Natural Sciences Division Certificate L0102

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

Required Courses:

nequired courses.		
AGAG 59	Work Experience in Agriculture	1.0 - 4.0
AGAN 2	Animal Nutrition	3.0
AGAN 94	Animal Breeding	3.0
AGLI 16	Horse Production and Manageme	nt 4.0

<u>or</u>	
Horse Ranch Management	4.0
Horse Hoof Care	2.0
Animal Sanitation and Disea	se Control 3.0
Artificial Insemination	2.0
Total Units	18.0 - 21.0
	Horse Ranch Management Horse Hoof Care Animal Sanitation and Disea

Hospitality: Catering

Business Division Certificate L1395

The Hospitality: Catering Certificate will prepare students for catering and banquet job opportunities in the hospitality industry. The program emphasizes menu planning, food preparation, service and catering management.

Required Courses:

HRM 51	Introduction to Hospitality	3.0
HRM 52	Food Safety and Sanitation	1.5
HRM 53	Dining Room Service Management	3.0
HRM 54	Basic Cooking Techniques	3.0
HRM 61	Menu Planning	3.0
HRM 62	Catering	3.0
HRM 91	Hospitality Work Experience	1.0
NF 20	Principles of Foods	3.0
	Total Units	20.5

Hospitality: Hospitality Management - Level II

Business Division Certificate L1325

This certificate prepares the holder to enter the hospitality field as a manager-trainee in a hotel or restaurant.

Required Courses:

HRM 51	Introduction to Hospitality	3.0
HRM 53	Dining Room Service Management	3.0
HRM 56	Management of Hospitality Personr	nel 3.0
	and Operations	
HRM 64	Hospitality Financial Accounting I	3.0
HRM 66	Hospitality Law	3.0
HRM 70	Introduction to Lodging	3.0
HRM 91	Hospitality Work Experience	1.0
	Total Units	19.0

Hospitality: Restaurant Management - Level II

Business Division Certificate L1319

The Hospitality: Restaurant Management - Level II Certificate prepares the holder to enter the restaurant field as a manager-trainee in a food service establishment.

Required Courses:

HRM 51	Introduction to Hospitality	3.0
HRM 52	Food Safety and Sanitation (1.50 Un	its)
HRM 53	Dining Room Service Management	3.0
HRM 54	Basic Cooking Techniques	3.0
HRM 57	Restaurant Cost Control	3.0
HRM 61	Menu Planning	3.0
NF 28	Cultural and Ethnic Foods	3.0
	Total Units	19.5

Infant/Toddler Development

Business Division 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).

Required Courses:

CHLD 1	Child, Family, School and Community	3.0	
CHLD 5	Principles/Practices	3.0	
	in Child Development Programs		
CHLD 6	Survey of Child Development	3.0	
	Curriculum		
CHLD 10	Child Growth and Development	3.0	
	<u>or</u>		
CHLD 10H	Child Growth and Development	3.0	
	- Honors		
CHLD 73	Infant/Toddler Care and Development	3.0	
CHLD 85	Infants At Risk	3.0	
PLUS Sele	ct four (4) courses from: (12 Units)		
CHLD 50	Teaching in a Diverse Society	3.0	
CHLD 61	Language Arts and Art Media	3.0	
	for Young Children		
CHLD 62	Music and Motor Development	3.0	
	for Young Children		

		Total Units	30.0
		and Child Relationships	
	CHLD 72	Teacher, Parent,	3.0
		of Young Children	
٠	CHLD 64	Health, Safety and Nutrition	3.0

Interior Design Kitchen and Bath Specialization

Business Division Certificate T0306

The Kitchen and Bath Specialization coursework builds upon the Level III Certificate to provide 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 certificate and meeting the eligibility requirements will quality 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.

Required Courses:

Completion of the Interior Design: Level I coursework as follows: (9 Units)

Coursew	coursework as ronows. (2 onits)			
ID 10	Introduction to Interior Design	3.0		
ID 12	Materials and Products	3.0		
	for Interior Design	3.0		
ID 14	History of Furniture	3.0		
	and Decorative Arts			

And completion of the Interior Design: Level II coursework as follows: (24 Units)

coursewo	rk as iollows: (24 offics)	
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	3.0
	for Interior Design I	
ID 25	Space Planning for Interior Design I	3.0
ID 26	Space Planning for Interior Design II	3.0
ID 27	Rapid Visualization	3.0
ID 29	Interior Design Studio I	3.0

Programs of Study Leading to a Certificate

And completion of the required Interior Design:		
Level III co	oursework as follows: (17 Units)	
ID 31	Building Systems for Interior Design	3.0
ID 32	Lighting Design and Theory	3.0
	for Interior Design	
ID 34	Computer Aided Drawing	3.0
	for Interior Design II	
ID 36	Professional Practices	3.0
	for Interior Design	
	<u>or</u>	
ID 37	Business Practices for Interior Design	3.0
ID 38	Internship in Interior Design	2.0
	(1 - 3 unit course, 2 units required)	
ID 39	Interior Design Studio II	3.0
Required	courses for Kitchen and Bath Speci	al-
ization (8	Units)	
ID 40	Kitchen and Bath Studio I	3.0
ID 41	Kitchen and Bath Studio II	3.0
ID 48	Internship in Kitchen and Bath	1.0
	(1 - 3 unit course 2 units required)	

(1 - 3 unit course, 2 units required)
Total Units

Recommended Electives:

ID 50	Interior Design Specialized Studio	3.0
ID 52	Independent Studies in Interior Design	າ1.0

Interior Design: Level II

Certificate T0304

Business Division

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 the student's search for an entry-level position as an assistant to a designer, library coordinator, or sales personnel for interior design products.

Required Courses:

Completion of the Interior Design: Level I coursework as follows: (9 Units)

ID 10 Introduction to Interior Design 3.0

ID 12	Materials and Products	3.0
	for Interior Design	
ID 14	History of Furniture	3.0
	and Decorative Arts	
Required	courses for Level II as follows: (24 l	Jnits)
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	3.0
	for Interior Design I	
ID 25	Space Planning for Interior Design I	3.0
ID 26	Space Planning for Interior Design II	3.0
ID 27	Rapid Visualization	3.0
ID 29	Interior Design Studio I	3.0
	Total Units	33.0
Recomme	ended Electives:	
ID 50	Interior Design Specialized Studio	3.0
ID 52	Independent Studies in Interior Desi	gn1.0

Interior Design: Level III

Business Division Certificate T0305

58.0

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 strengthen career perspectives. This certificate may aid in the student's search for an intermediate position as an assistant to a designer, library coordinator, or a specialization in the field of interior design.

Required Courses:

Completion of the Interior Design: Level I coursework as follows: (9 Units)

ID 10	Introduction to Interior Design	3.0
ID 12	Materials and Products	3.0
	for Interior Design	
ID 14	History of Furniture	3.0
	and Decorative Arts	

And completion of the Interior Design: Level II

coursework as follows: (24 Units)			
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	3.0
	for Interior Design I	
ID 25	Space Planning for Interior Design I	3.0
ID 26	Space Planning for Interior Design II	3.0
ID 27	Rapid Visualization	3.0
ID 29	Interior Design Studio I	3.0
And comp	letion of the required Interior De	sign:
Level III c	oursework as follows: (17 Units)	
ID 31	Building Systems for Interior Design	3.0
ID 32	Lighting Design and Theory	3.0
	for Interior Design	
ID 34	Computer Aided Drawing	3.0
	for Interior Design II	
ID 36	Professional Practices	3.0
	for Interior Design	
	<u>or</u>	
ID 37	Business Practices for Interior Design	3.0
ID 38	Internship in Interior Design	1.0
	(1 - 3 unit course, 2 units required)	
ID 39	Interior Design Studio II	3.0
	Total Units	50.0
Recomme	ended Electives:	
ID 50	Interior Design Specialized Studio	3.0

Interior Landscaping

Natural Sciences Division Certificate L0106

ID 52

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.

Independent Studies in Interior Design 1.0

Required Courses

nequireu	Courses.	
AGOR 1	Horticultural Science	3.0
AGOR 13	Landscape Design	3.0
AGOR 15	Interior Landscaping	3.0
AGOR 24	Integrated Pest Management	3.0
AGOR 29	Ornamental Plants - Herbaceous	3.0
AGOR 32	Landscaping	3.0
	and Nursery Management	

AGOR 62	Landscape Irrigation - Design and Installation	3.0
AGOR 64	Landscape Irrigation - Drip	3.0
	and Low Volume Total Units	24.0

Landscape and Park Maintenance

Natural Sciences Division Certificate T0108

This certificate program is designed to give students basic skills in the maintenance of landscape of parks. All courses are applicable for degree requirements.

Required Courses

ı	nequireu (Lourses.	
	AGOR 1	Horticultural Science	3.0
	AGOR 24	Integrated Pest Management	3.0
	AGOR 29	Ornamental Plants - Herbaceous	3.0
	AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0
l	ACOD 20	Turf Grass Production	2.0
	AGOR 39	and Management	3.0
	AGOR 40	Sports Turf Management	3.0
	AGOR 51	Tractor and Landscape Equipment Operations	3.0
	AGOR 62	Landscape Irrigation - Design and Installation	3.0
	AGOR 63	Landscape Irrigation Systems Management	3.0
	AGOR 71	Landscape Construction Fundamental	s 3.0
		Total Units	30.0

Landscape Design and Construction

Natural Sciences Division Certificate L0109

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

AGOR 1	Horticultural Science	3.0
AGOR 13	Landscape Design	3.0
AGOR 29	Ornamental Plants - Herbaceous	3.0
AGOR 30	Ornamental Plants	3.0
	- Trees and Woody Shrubs	

Programs of Study Leading to a Certificate

AGOR 50	Soil Science and Management	3.0
AGOR 51	Tractor and Landscape Equipment	3.0
	Operations	
AGOR 62	Landscape Irrigation - Design	3.0
	and Installation	
AGOR 71	Landscape Construction Fundamental	s 3.0
AGOR 72	Landscape Hardscape Applications	3.0
AGOR 73	Landscaping Laws, Contracting,	3.0
	and Estimating	
	Total Units	33.0

Landscape Equipment Technology Natural Sciences Division Certificate T0117

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

Required Courses:

AGOR 1	Horticultural Science	3.0
AGOR 51	Tractor and Landscape	3.0
	Equipment Operations	
AGOR 52	Hydraulics	3.0
AGOR 53	Small Engine Repair I	3.0
AGOR 54	Small Engine Repair II	3.0
AGOR 55	Diesel Engine Repair	3.0
AGOR 56	Engine Diagnostics	3.0
AGOR 57	Power Train Repair	3.0
AGOR 71	Landscape Construction Fundam	entals 3.0
AGOR 72	Landscape Hardscape Application	ns 3.0
AGOR 91	Work Experience	1.0 - 4.0
	in Nursery Operations	
	Total Units 3	1.0 - 34.0

Landscape Irrigation

Natural Sciences Division Certificate L0110

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

Required Courses:				
AGOR 1	Horticultural Science	3.0		
AGOR 13	Landscape Design	3.0		
AGOR 39	Turf Grass Production	3.0		
	and Management			
AGOR 50	Soil Science and Management	3.0		
AGOR 51	Tractor and Landscape	3.0		
	Equipment Operations			
AGOR 62	Landscape Irrigation - Design	3.0		
	and Installation			
AGOR 63	Landscape Irrigation Systems	3.0		
	Management			
AGOR 64	Landscape Irrigation - Drip	3.0		
	and Low Volume			
AGOR 71	Landscape Construction Fundamenta	ls 3.0		
	Total Units	27.0		

Law Enforcement

Technology and Health Division Certificate T2102

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

Required Courses:

ADJU 1	The Administration of Justice System	3.0	
ADJU 2	Principles and Procedures	3.0	
	of the Justice System		
ADJU 3	Concepts of Criminal Law	3.0	
ADJU 4	Legal Aspects of Evidence	3.0	
ADJU 5	Community Relations	3.0	
ADJU 68	Administration of Justice	3.0	
	Report Writing		
PLUS Select four (4) courses from: (12 Units)			

ADJU 13 Concepts of Traffic Services 3.4 ADJU 20 Principles of Investigation 3.4 ADJU 38 Narcotics Investigation 3.4 ADJU 59 Gangs and Corrections 3.4 ADJU 74 Vice Control 3.4 CORS 30 Ethnic Relations in Corrections 3.4 CORS 40 Crime and Delinquency 3.4	PLUS Select four (4) courses from: (12 Units)			
ADJU 20 Principles of Investigation 3.4 ADJU 38 Narcotics Investigation 3.4 ADJU 59 Gangs and Corrections 3.4 ADJU 74 Vice Control 3.4 CORS 30 Ethnic Relations in Corrections 3.6 CORS 40 Crime and Delinquency 3.6 CORS 45 The Violent Offender 3.6	ADJU 6	Concepts of Enforcement Services	3.0	
ADJU 38 Narcotics Investigation 3.4 ADJU 59 Gangs and Corrections 3.4 ADJU 74 Vice Control 3.4 CORS 30 Ethnic Relations in Corrections 3.4 CORS 40 Crime and Delinquency 3.4 CORS 45 The Violent Offender 3.4	ADJU 13	Concepts of Traffic Services	3.0	
ADJU 59 Gangs and Corrections 3.4 ADJU 74 Vice Control 3.4 CORS 30 Ethnic Relations in Corrections 3.4 CORS 40 Crime and Delinquency 3.4 CORS 45 The Violent Offender 3.4	ADJU 20	Principles of Investigation	3.0	
ADJU 74 Vice Control 3.1 CORS 30 Ethnic Relations in Corrections 3.1 CORS 40 Crime and Delinquency 3.1 CORS 45 The Violent Offender 3.1	ADJU 38	Narcotics Investigation	3.0	
CORS 30 Ethnic Relations in Corrections 3.0 CORS 40 Crime and Delinquency 3.0 CORS 45 The Violent Offender 3.0	ADJU 59	Gangs and Corrections	3.0	
CORS 40 Crime and Delinquency 3. CORS 45 The Violent Offender 3.	ADJU 74	Vice Control	3.0	
CORS 45 The Violent Offender 3.	CORS 30	Ethnic Relations in Corrections	3.0	
	CORS 40	Crime and Delinquency	3.0	
Total Units 30.	CORS 45	The Violent Offender	3.0	
	30.0			

Recommended Electives:

KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire	
	Technology	
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice and Fire	
	Technology	
KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Techrand Forestry	ology,

Livestock Management

Natural Sciences Division Certificate T0103

This certificate program is designed to give students basic skills in livestock management for employment opportunities on farms, ranches, and agriculture sales and services. All courses are applicable for degree requirements.

Required Courses:

AGAG 1	Food Production, Land Use	3.0
AUAU I	,	3.0
	and Politics - A Global Perspective	
AGAG 91	Agricultural Calculations	3.0
AGAN 1	Animal Science	3.0
AGAN 2	Animal Nutrition	3.0
AGAN 94	Animal Breeding	3.0
AGLI 14	Swine Production	3.0
AGLI 16	Horse Production and Management	4.0
AGLI 17	Sheep Production	3.0
AGLI 30	Beef Production	3.0
AGLI 34	Livestock Judging and Selection	2.0
AGLI 96	Animal Sanitation and Disease Contro	3.0
PLUS selec	ct (6 Units)	
AGOR 71	Landscape Construction Fundamental	s 3.0
BUSM 20	Principles of Business	3.0
BUSM 66	Small Business Management	3.0
BUSS 35	Professional Selling	3.0
BUSS 36	Principles of Marketing	3.0
	Total Units	39.0

Manufacturing Technology

Technology and Health Division Certificate T0918

The primary purpose of this program is to emphasize the manipulative skills required to enter the field of machine metal worker, machine operator, production machinist, mechanical technician, or machinist.

Required Courses:

EDT 16	Basic CAD and Computer Applications	4.0
EDT 18	Engineering CAD Applications	4.0
MFG 10	Mathematics & Blueprint Reading	3.0
	for Manufacturing	
MFG 11	Manufacturing Processes I	2.0
MFG 12	Manufacturing Processes II	2.0
MFG 38	MasterCAM I	2.0
MFG 38B	MasterCAM II	2.0
MFG 85	Manual Computerized Numerical	2.0
	Control (CNC) Programming	
WELD 40	Introduction to Welding	2.0
	Total Units	23.0

Marketing Management

Business Division Certificate L0510

Students completing this Marketing Management certificate will have gained practical world business knowledge and experience. In addition, completers of the certificate will have learned to use some of the latest business computer software.

nequireu	Courses.	
BUSM 20	Principles of Business	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSS 35	Professional Selling	3.0
BUSS 36	Principles of Marketing	3.0
BUSS 50	Retail Store Management	3.0
	and Merchandising	
BUSS 79	Work Experience in Marketing	1.0
	Management	
BUSS 85	Special Issues in Marketing	2.0
CISB 15	Microcomputer Applications	4.0
	Total Units	22.0

Mental Health Technology - Psychiatric Technician

Technology and Health Division Certificate T1279

Upon completion of the required courses, a Certificate in Psychiatric Technician will be awarded. In addition, it prepares the student to take the California State Board Examination for Psychiatric Technicians.

Required Courses:

MENT 40	Introduction to Interviewing	3.0
	and Counseling	
MENT 56	Medical-Surgical Nursing	9.0
	for Psychiatric Technicians	
MENT 56L	Medical-Surgical Clinical Experience	4.0
MENT 58D	Advanced Medical-Surgical Nursing	4.0
	and Pharmacology for PT	
MENT 58L	Advanced Medical-Surgical Nursing	1.5
	for Psychiatric Technicians Clinical	
MENT 70	Introduction to Psychiatric Technology	y 1.5
MENT 70L	INTRO PSYC TECH CLINICAL	2.0
MENT 72	Nursing Care of the Developmentally	7.0
	Disabled Person	
MENT 72L	Nursing Care of the Developmentally	5.5
	Disabled Person - Clinical	
MENT 73L	Psychiatric Nursing for Psychiatric	5.5
	Technicians Clinical	
MENT 73T	Psychiatric Nursing	6.0
	for Psychiatric Technicians	
PSYC 1A	Introduction to Psychology	3.0
	<u>or</u>	
PSYC 1AH	$Introduction\ to\ Psychology-Honors$	3.0
	Total Units	52.0

Special Information:

To remain in the program, students must maintain a "C" or better grade in all courses. The student will qualify to take the California State Board Examination upon completion of all the above courses.

Entrance Requirements:

demic 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.)

In addition to meeting Mt. San Antonio College's aca-

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 courses were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

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

EXAMPLE:

Mt. San Antonio College Technology and Health Division Psychiatric Technician Program 1100 North Grand Avenue

Walnut, CA 91789-1399

h) A physical examination, including specific immunizations, and consent/disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that he/she does not have tuberculosis. These requirements are in accordance with the healthcare agency policy that insure that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as part of this physical examination. Proof of high school graduation and malpractice insurance are required of all candidates upon acceptance.

i) Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician.

j) All students will be required to pass a background check prior to entering the clinical education phase.

Selection Procedure:

In determining eligibility of an applicant, consideration will be given to satisfactory scores on the English Placement Test. The College will make every effort to notify the applicant of acceptance by mail no less than two months prior to the beginning of a program. all applicants are required to meet the Essential Functions for Success in the Mental Health Technology - Psychiatric Technician Program.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and/ or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heaving 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 device)
- 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 a 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 criterion for admission into the Mental Health Technology – Psychiatric Technician program, students must be able to speak, write and read English to complete classes successfully and to ensure patient safety.

Microcomputer Productivity Software

Business Division 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.

Required Courses:

CISB 13	Microsoft Windows	2.0
	<u>or</u>	
CISN 21	Windows Operating System	4.0
CISB 15	Microcomputer Applications	4.0
CISB 21	Microsoft Excel	3.0
CISD 11	Database Management	4.0
	- Microsoft Access	
CISW 11	Internet Technologies	4.0
CISB 51	Microsoft PowerPoint	3.0
	Total Units	20.0 - 22.0

Nursery Management

Natural Sciences Division Certificate L0107

This certificate program is designed to give students basic skills in production and marketing of plants and dry goods in the wholesale and retail nursery industry. All courses are applicable for degree requirements.

Required Courses:

Kequirea	Courses:	
AGOR 1	Horticultural Science	3.0
AGOR 2	Plant Propagation/Greenhouse	3.0
	Management	
AGOR 24	Integrated Pest Management	3.0
AGOR 29	Ornamental Plants - Herbaceous	3.0
AGOR 30	Ornamental Plants - Trees	3.0
	and Woody Shrubs	
AGOR 32	Landscaping	3.0
	and Nursery Management	
AGOR 39	Turf Grass Production	3.0
	and Management	
AGOR 62	Landscape Irrigation - Design	3.0
	and Installation	

	Total Units	27.0
	- Drip and Low Volume	
AGOR 64	Landscape Irrigation	3.0

Park Management

Natural Sciences Division 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.

Required Courses:

ı	nequireu	courses:	
	AGOR 1	Horticultural Science	3.0
	AGOR 4	Park Management	3.0
	AGOR 5	Park Facilities	3.0
	AGOR 24	Integrated Pest Management	3.0
	AGOR 30	Ornamental Plants - Trees	3.0
		and Woody Shrubs	
	AGOR 39	Turf Grass Production	3.0
		and Management	
	AGOR 51	Tractor and Landscape Equipment	3.0
		Operations	
	AGOR 62	Landscape Irrigation - Design	3.0
		and Installation	
	AGOR 63	Landscape Irrigation Systems	3.0
		Management	
	AGOR 75	Urban Arboriculture	3.0
		Total Units	30.0
П			

Pet Science

Natural Sciences Division Certificate T0104

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

Required Courses:

nequirea	courses.	
AGAN 1	Animal Science	3.0
AGAN 2	Animal Nutrition	3.0
AGAN 51	Animal Handling and Restraint	3.0
AGAN 94	Animal Breeding	3.0
AGLI 96	Animal Sanitation and Disease Conf	rol 3.0
AGPF 70	Pet Shop Management	3.0

AGPE 71	Canine Management	3.0
AGPE 72	Feline Management	3.0
AGPE 73	Tropical and Coldwater Fish	2.0
	Management	
AGPE 74	Reptile Management	2.0
AGPE 76	Aviculture - Cage and Aviary Birds	3.0
BUSM 66	Small Business Management	3.0
	Total Units	34.0

Photography

Arts Division

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.

Required Courses:

courses.	
Photoshop Imagery	3.0
Basic Digital and Film Photography	3.0
Professional Photography	4.0
Photographic Alternatives	3.0
<u>or</u>	
Exploring Color Photography	3.0
Commercial Lighting	3.0
Fashion Photography	3.0
<u>or</u>	
Portraiture and Wedding Photograpl	hy 3.0
Photocommunication	3.0
Color Photography	3.0
Photography Portfolio Development	3.0
Studio Business Practices	3.0
for Commercial Artists	
Commercial and Illustrative	3.0
Photography	
Totals Units	34.0
ended Electives:	
Understanding the Visual Arts	3.0
Understanding the Visual Arts	3.0
Lahoratory Studies: Black	1.0
Laboratory Stadies. Diack	1.0
and White Photography	1.0
	Basic Digital and Film Photography Professional Photography Photographic Alternatives or Exploring Color Photography Commercial Lighting Fashion Photography or Portraiture and Wedding Photograph Photocommunication Color Photography Photography Portfolio Development Studio Business Practices for Commercial Artists Commercial and Illustrative Photography Totals Units Inded Electives: Understanding the Visual Arts

Programming In C++

Business Division Certificate L0794

This certificate program is intended to prepare students to use the C++ programming language in a business environment.

Required Courses:

CISB 11	Computer Information Systems	3.50
CISD 11	Database Management	4.0
	- Microsoft Access	4.0
CISM 11	Systems Analysis and Design (3.	50 Units)
CISN 21	Windows Operating System	4.0
CISP 31	Programming in C++	4.0
CISP 34	Advanced C++ Programming	4.0
	Total Units	23.0

Programming In Visual Basic

Business Division

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.

	Total Units	19.0
CISP 14	Advanced Visual Basic Programming	4.0
CISP 11	Programming in Visual Basic	4.0
CISM 11	Systems Analysis and Design	3.5
	- Microsoft Access	
CISD 11	Database Management	4.0
CISB 11	Computer Information Systems	3.5

Public Works/Landscape Management

Natural Sciences Division 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.

Required Courses:

	Total Units	12.0	
	and Management		
AGOR 39	Turf Grass Production	3.0	
	Offered at Mt. San Antonio College		
AGOR 1	Horticultural Science	3.0	
Offered at I	Mt. San Antonio College:		
PUB 158	Municipal and Urban Tree Care	3.0	
Offered at	Citrus College		
PUB 150	Public Works I	3.0	
Offered at Citrus College			

Radio Broadcasting: Behind-the-Scenes

Arts Division Certificate T0606

The Behind-the-Scenes Radio Broadcasting Certificate is designed for students who are interested in the non-performance side of the industry. Students will receive instruction in the various functions of a radio station as they exist independently and in conjunction with the on-the-air product.

Required Courses:

quii cu i	iouiscs.	
R-TV 01	Introduction to Broadcasting	3.0
R-TV 09	Broadcast Sales and Promotion	3.0
R-TV 10	Radio Management and Programming	3.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 11B	Advanced Radio Production	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 Industry Seminar	1.0
	<u>and</u>	
R-TV 97B	Radio/Entertainment	1.0
	Industry Internship	
PLUS		
Select six	(6) units from:	
R-TV 12	Commercial Copywriting	3.0
R-TV 26	Current Issues in Entertainment Law	3.0
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	3.0
	and Procedures	
	Total Units 27.0 - 2	8.0

Radio Broadcasting: On-the-Air **Arts Division**

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.

Paguired Courses

Select six (6) units from:

R-TV 03

R-TV 04

R-TV 06

courses:	
Introduction to Broadcasting	3.0
On-Air Personality Development	3.0
<u>or</u>	
On-Air Personality Development	3.0
- Spanish Market	
Radio-TV Newswriting	3.0
Beginning Commercial Voice-Overs	3.0
Beginning Radio Production	3.0
Advanced Radio Production	3.0
Broadcast Business Practices	3.0
Campus Radio Station Lab 1.0 -	2.0
Radio/Entertainment Industry Seminar	1.0
<u>and</u>	
Radio/Entertainment Industry	1.0
Internship	
	Introduction to Broadcasting On-Air Personality Development or On-Air Personality Development - Spanish Market Radio-TV Newswriting Beginning Commercial Voice-Overs Beginning Radio Production Advanced Radio Production Broadcast Business Practices Campus Radio Station Lab 1.0 - Radio/Entertainment Industry Seminar and Radio/Entertainment Industry

Sportscasting and Reporting

Broadcast Traffic Reporting

Broadcast News Field Reporting

R-TV 07B	Advanced Commercial Voice-Overs	3.0
R-TV 09	Broadcast Sales and Promotion	3.0
R-TV 10	Radio Management and Programming	3.0
R-TV 12	Commercial Copywriting	3.0
R-TV 17	Internet Radio and Podcasting	3.0
R-TV 26	Current Issues in Entertainment Law	3.0
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	3.0
	and Procedures	
	Total Units 30.0 - 3	31.0

Real Estate

Business Division 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.

Required Courses:

BUSR 59

BUSR 76

1.50

3.0

1.5

BUSR 50 Real Estate Principles

BUSR 51	Legal Aspects of Real Estate	3.0
BUSR 52	Real Estate Practice	3.0
	<u>or</u>	
BUSR 52D	Real Estate Practice Work Experience	3.0
BUSR 53	Real Estate Finance	3.0
BUSR 81	Appraisal: Principles and Procedures	3.5
PLUS		
Select one	e (1) course from:	
		2.0
BUSA 11	Fundamentals of Accounting	3.0
BUSA 11 BUSL 18	Fundamentals of Accounting Business Law	3.0
	,	
BUSL 18	Business Law	3.0
BUSL 18 BUSL 18H	Business Law — Honors	3.0 3.0
BUSL 18 BUSL 18H BUSR 55	Business Law Business Law – Honors Real Estate Economics	3.0 3.0 3.0

Real Estate Property Management

Escrow Procedures I

Total Units

School Age Child - Specialization Business Division Certificate T1314

The School Age Child Specialization Certificate (31-33 units) provides the holder with specialized skills for working with children of that age. This certificate meets or exceeds Title 5 Master Teacher - School Age Child Permit Level (with 16 units of general education).

Required Courses

3.0

3.0

3.0

18.5

ı	kequirea (Courses:	
I	CHLD 1	Child, Family, School and Community	3.0
I	CHLD 5	Principles/Practices	3.0
I		in Child Development Programs	
I	CHLD 6	Survey of Child Development	3.0
I		Curriculum	
I	CHLD 10	Child Growth and Development	3.0
I		<u>or</u>	
I	CHLD 10H	Child Growth and Development	3.0
I		- Honors	
I	CHLD 50	Teaching in a Diverse Society	3.0
I	CHLD 51	Early Literacy in Child Development	3.0
I	CHLD 62	Music and Motor Development	3.0
I		for Young Children	
I	CHLD 64	Health, Safety and Nutrition	3.0
I		of Young Children	
I	CHLD 74	Program Planning	3.0
I		for the School Age Child	
	PLUS		
	Select one	e (1) course from: (1-3 Units)	
I	ENGL 64	Writing Effective Sentences	1.0

Select one (1) course from: (1-3 Units)			
ENGL 64	Writing Effective Sentences	1.0	
ENGL 65	Grammar Review	1.0	
LIT 40	Children's Literature	3.0	
PLUS			
Select three (3) units from:			
LERN 49	Math Skills Review	3.0	
MATH 50	Pre-Algebra	3.0	
	Total Units	31.0 - 33.0	

Sign Language/Interpreting

Humanities and Social Sciences Division Certificate T0801

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

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

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

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

Poguired Courses

Kequirea	courses:	
SIGN 105	American Sign Language 5	4.0
SIGN 108	Fingerspelling	2.0
SIGN 201	Deaf Perspectives	3.0
SIGN 202	American Deaf Culture	3.0
SIGN 210	American Sign Language Structure	3.0
SIGN 220	Translation: American	3.0
	Sign Language/English	
SIGN 223	Principles of Interpreting	3.0
SIGN 225	Ethical Decision Making	2.0
	for Interpreters	

Calacation	C (1 (2)		
Required Electives			
SIGN 239	Practicum	1.0	
SIGN 232	Advanced Interpreting	4.0	
SIGN 231	Interpreting	4.0	
SIGN 227	Cognitive Processing for Interpreters	4.0	

Selecthree (3) courses from: (4-5 units)

	(5)	,	
SIGN 240	Vocabulary Building for Interpr	eters	2.0
SIGN 250	Interpreting with Classifiers		1.5
SIGN 260	Video Interpreting		1.5
SL 2	Linked Service Learning		1.0
	Total Units 4	0.0 - 4	1.0

Sports Turf Management

Natural Sciences Division Certificate L0112

This certificate program is designed to provide skills required for students interested in employment at golf courses, race tracks, athletic fields and stadiums. and other high use turf areas. All courses are applicable for degree requirements..

Doguired Courses

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

Television Production

Arts Division Certificate L0602

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

Required Courses:

R-TV 01	Introduction to Broadcasting	3.0
R-TV 14	Media Aesthetics	3.0
R-TV 19A	Beginning Video Production	3.0
R-TV 19B	Advanced Video Production	3.0
R-TV 22	Editing for Film and Television	3.0
R-TV 100	Work Experience in Film and TV	1.0 - 3.0
PLUS		
	(0) '((

Writing for Tolovicion and Film

Select nine (9) units from:

P_TV 19

U-IA IO	Willing for felevision and Film	5.0
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
Recomme	nded Electives:	
ANIM 115	Storyboarding	3.0
R-TV 26	Current Issues in Entertainment Law	3.0
THTR 17	Acting for the Camera	3.0
PHOT 10	Basic Digital and Film Photography	3.0

Tree Care and Maintenance

Natural Sciences Division 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.

Required Courses:

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

Water Technology

3 0

Technology and Health Division 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.

Lourses:	
Intro to Water Systems	3.0
Water Treatment	3.0
Water Distribution	3.0
Cross Connection Control	3.0
- Certified Tester	
Cross Connection Control	3.0
- Certified Specialist	
Water Hydraulics and Instru	mentation 3.0
Total Units	18.0
	Intro to Water Systems Water Treatment Water Distribution Cross Connection Control - Certified Tester Cross Connection Control - Certified Specialist Water Hydraulics and Instru

Web Design

Arts Division 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.

Required Courses:

ANIM 172	Motion Graphics, Compositing and Visual Effects	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 and Composition	1.0
	Total Units	25.0

Welder - Automotive Welding, Cutting & Modification

Technology and Health Division 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.

Required Courses:

nequirea	courses.	
WELD 40	Introduction to Welding	2.0
WELD 50	Oxyacetylene Welding	2.0
WELD 51	Basic Electric Arc Welding	2.0
WELD 53A	Welding Metallurgy	3.0
WELD 60	Print Reading and Computations	3.0
	for Welders	
WELD 70A	Beginning Arc Welding	3.0
WELD 70B	Intermediate Arc Welding	3.0
WELD 70C	Certification for Welders	3.0

	Total Units	30.0
	and Modification	
WELD 91	Automotive Welding, Cutting	3.0
WELD 81	Pipe and Tube Welding	3.0
WELD 80	Construction Fabrication and Weld	ding 3.0

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

Welder - Gas Tungsten Arc Welding

Technology and Health Division Certificate T0932

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

Required Courses:

WELD 40	Introduction to Welding	2.0	
WELD 50	Oxyacetylene Welding	2.0	
WELD 51	Basic Electric Arc Welding	2.0	
WELD 53A	Welding Metallurgy	3.0	
WELD 60	Print Reading and Computations	3.0	
	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 and Welding	g 3.0	
WELD 81	Pipe and Tube Welding	3.0	
WELD 90A	Gas Tungsten Arc Welding	3.0	
	Total Units	30.0	
Noto. Any h	Note: Any higher level welding courses may be substi-		

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

Welder - Licensed

Technology and Health Division Certificate L0930

This program is designed to prepare students for entry-level employment in the broad field of welding, including manufacturing construction, fabrication and repair. Through theoretical and hand-on skills coursework students prepare for industry licensing with and 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.

Required Courses:

nequirea	courses.	
WELD 40	Introduction to Welding	2.0
WELD 50	Oxyacetylene Welding	2.0
WELD 51	Basic Electric Arc Welding	2.0
WELD 53A	Welding Metallurgy	3.0
WELD 60	Print Reading and Computations	3.0
	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 and Welding	3.0
WELD 81	Pipe and Tube Welding	3.0
	Total Units 2	27.0
Nota. Any h	nighar laval walding courses may be sul	hcti

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

Welding – Semiautomatic Arc Welding

Technology and Health Division Certificate T0933

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

Required Courses:

WELD 40	Introduction to Welding	2.0
WELD 50	Oxyacetylene Welding	2.0

WELD 51	Basic Electric Arc Welding	2.0
WELD 53A	Welding Metallurgy	3.0
WELD 60	Print Reading and Computations	3.0
	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 and Welding	g 3.0
WELD 81	Pipe and Tube Welding	3.0
WELD 90B	Semiautomatic Arc Welding Process	3.0
	Total Units	30.0
Note: Any higher level welding courses may be substi-		

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

Accounting - Bookkeeping

Business Division Certificate E0504

The Accounting - Bookkeeping certificate provides the student with the basic skills and knowledge for entry-level positions within the clerical/ accounting field. Common duties performed in this field are posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/ reporting, bank reconciliation, expense reporting, and account analysis.

Required Courses:

BUSA 7	Principles of Accounting - Finance	cial 5.0
	<u>or</u>	
BUSA 72	Bookkeeping - Accounting	5.0
BUSA 53	Ten-Key Calculations	2.0
	<u>or</u>	
BUSA 81	Work Experience in Accounting	1.0
BUSO 5	Business English	3.0
	<u>or</u>	
BUSO 25	Business Communications	3.0
	Total Units	9.0 - 10.0
DUCA 7	I I was a LC DUCATOC at	

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

Accounting - Payroll

Business Division Certificate E0505

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

Required Courses:

Completion of Accounting-Bookkeeping Certificate as follows:

BUSA 7	Principles of Accounting - Fina	ncial 5.0
	<u>or</u>	
BUSA 72	Bookkeeping - Accounting	5.0
BUSA 53	Ten-Key Calculations	2.0
	<u>or</u>	
BUSA 81	Work Experience in Accountin	g 1.0
BUSO 5	Business English	3.0
	<u>or</u>	
BUSO 25	Business Communications	3.0
Plus the fo	ollowing courses:	
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 Accountin	g 1.0
BUSA 76	Using Microcomputers	1.0
	in Managerial Accounting	
	<u>or</u>	
BUSA 81	Work Experience in Accountin	g 1.0
	Total Units	14.0 - 15.0

Administrative Assistant - Level I

Business Division Certificate E0516

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

Required Courses:

	Total Units	13.0
CISI 41	Office Management Skills	3.0
CISI 11	Computer Keyboarding	3.0
CISB 15	Microcomputer Applications	4.0
BUSO 5	Business English	3.0

Athletic Trainer Aide I

Kinesiology & Athletics Division 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.

Required Courses:

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

Business: Human Resource Management – Level I

Business Division Certificate E0531

This introductory certificate exposes students to the business world and the role of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resources. This certificate may aid the student's search for an entry-level job in the business world.

Required Courses:

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

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

Business Division Certificate E0527

This specialized business certificate is intended to prepare the student to work in the unique and dynamic environment of international business. This program also prepares the student as a business management generalist for companies conducting international trade. This program will afford career opportunities for entry-level employment in international sales and marketing.

Required Courses:

	Total Units	9.0
BUSS 36	Principles of Marketing	3.0
BUSM 51	Principles of International Business	3.0
BUSM 20	Principles of Business	3.0

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 Business Division

Certificate E0525 The Business Managem

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.

Required Courses:

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

Special Information:

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

Business: Retail Management

- Level I

Business Division Certificate E0500

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.

3USO 25	Business Communications	3.0
CISB 15	Microcomputer Applications	4.0
ASH 62	Retail Store Management	3.0
	and Merchandising	
	<u>or</u>	
BUSS 50	Retail Store Management	3.0
	and Merchandising	
	Total Units	10.0

Special Information:

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

Business: Small Business Management - Level I

Business Division 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.

Required Courses:

Principles of Marketing	3.0
Small Business Management	3.0
Principles of Business	3.0
	Small Business Management

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

Business Division Certificate E1326

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

Required Courses:

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

CIS Professional Certificate in C++ **Programming**

Business Division 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.

Required Courses:

CISD 11	Database Management - Microsoft Acce	ss 4.0
	<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 Design	2.0
CISP 31	Programming in C++	4.0
CISP 34	Advanced C++ Programming	4.0
	Total Units	14.0

CIS Professional Certificate in Database Management

- Microcomputers

Business Division 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.

Required Courses:

nequire	i courses.	
CISD 11	Database Management - Microsoft Acc	ess 4.0
CISD 14	Advanced Database Management	4.0
	- Microsoft Access	
CISD 21	Database Management	4.0
	- Microsoft SQL Server	
CISD 40	Database Design	3.0
	Total Units	15.0

CIS Professional Certificate in Java Programming

Business Division Certificate E0700

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop applications using Java and includes techniques in Object Oriented Programming, web-based applets, servlets, navigating databases, and JavaBeans.

Required Courses:

CISD 11	Database Management - Microsoft Acce	ss 4.0
	<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 Design	2.0
CISP 21	Programming in Java	4.0
CISP 24	Advanced Java Programming	4.0
	Total Units	14.0

CIS Professional Certificate in LINUX Business Division 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.

Required Courses:

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

CIS Professional Certificate in Network Security

Business Division 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.

Required	Courses:	
CISS 21	Network Vulnerabilities	4.0
	and Countermeasures	
CISS 23	Network Analysis,	4.0
	Intrusion Detection/Prevention Sys	stems
CISS 25	Network Security and Firewalls	4.0
CISS 27	Defending Computer Systems	1.0
	Total Units	13.0

CIS Professional Certificate in Networking

Business Division Certificate E0716

This curriculum is designed to help students develop skills to administer and manage the heterogeneous corporate network. The courses examine and illustrate communication protocols with various industrial leading network operating systems. The main objective of the certificate is to integrate and enhance knowledge for network administration. However, individual courses may assist students in preparing for related certification exams.

Required Courses:

CISN 11	Telecommunications Networking	4.0
CISN 24	Window Server Network	4.0
	and Security Administration	
CISN 34	Linux Networking and Security	4.0
CISN 51	Cisco CCNA Networking and Routing	4.0
	Total Units	16.0

CIS Professional Certificate in Object-Oriented Design & Programming

Business Division 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.

Required Courses:

CISP 10	Principles of Object-Oriented Design	2.0
CISP 11	Programming in Visual Basic	4.0
	<u>or</u>	
CISP 21	Programming in Java	4.0
	<u>or</u>	
CISP 31	Programming in C++	4.0
	<u>or</u>	
CISP 41	Programming in C#	4.0
CISP 14	Advanced Visual Basic Programming	4.0
	<u>or</u>	
CISP 24	Advanced Java Programming	4.0

	<u>or</u>	
CISP 34	Advanced C++ Programming	4.0
	<u>or</u>	
CISP 44	Advanced Programming in C#	4.0
	Total Units	10.0

CIS Professional Certificate in SQL Business Division

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.

Required Courses:

ı	nequired	courses.	
	CISD 21	Database Management	4.0
		- Microsoft SQL Server	
	CISD 31	Database Management - Oracle	4.0
	CISD 40	Database Design	3.0
		Total Units	11.0

CIS Professional Certificate in Telecommunications

Business Division 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.

Required Courses:

CISN 11	Telecommunications Networking	4.0
CISN 24	Window Server Network	4.0
	and Security Administration	
CISN 51	Cisco CCNA Networking and Routing	4.0
	Total Units	12.0

CIS Professional Certificate in Visual Basic Programming

Business Division 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.

Required Courses:

CISP 10	Principles of Object-Oriented Design	2.0
CISP 11	Programming in Visual Basic	4.0
CISP 14	Advanced Visual Basic Programming	4.0
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

Business Division 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.

Required Courses:

	Total Units 1	2.0
CISW 31	Secure Web Servers	4.0
CISW 24	Secure Server Side Web Programming	4.0
CISW 11	Internet Technologies	4.0

CIS Professional Certificate in Windows Operating System Administration

Business Division 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.

Required Courses:

	Total Units	8.0
	and Security Administration	
CISN 24	Window Server Network	4.0
CISN 21	Windows Operating System	4.0

Coaching

Kinesiology, Athletics and Dance Division 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.

Required Courses:

KIN 13	Sports Officiating	3.0
KIN 34	Fitness for Living	3.0
KIN 44	Theory of Coaching	3.0
KIN 81	Work Experience for Coaching	2.0
	Total Units	11.0

Exit Requirement: First Aid and CPR Certification

Computer Graphics Technology Proficiency

Arts Division 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.

Required 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	3.0		
GRAP 20	Multimedia Graphics	3.0		

Culinary Arts - Level I

Business Division 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.

Required Courses:

HRM 52 Food Safety and Sanitation

HRM 54	Basic Cooking Techniques	3.0
HRM 91	Hospitality Work Experience	1.0
NF 20	Principles of Foods	3.0
PLUS		
Select six	(6) units from:	
HRM 61	Menu Planning	3.0
HRM 62	Catering	3.0
NF 61	Creative Foods	3.0
NF 62	Meal Management	3.0
	Total Units	14.5

Dance Teacher

Kinesiology, Athletics and Dance Division 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.

Required Courses:

		- 110
	Total Units	14.0
KIN 24	Kinesiology	2.0
DN-T 38	Dance Teaching Methods	3.0
DN-T 20	History and Appreciation of Dance	3.0
DNCE 39A	Alignment and Correctives I	0.5
DNCE 35	Repertory	2.0
DNCE 33	Improvisation	0.5
DNCE 24	Dance Production	1.0
DNCE 14B	Jazz II	0.5
DNCE 12B	Modern II	0.5
DNCE 4	Choreography	0.5
DNCE 2B	Ballet II	0.5

Electronic Assembly and Fabrication

Technology and Health Division Certificate E0929

1.5

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.

Required Courses:

ELEC 50A	Electronic Circuits (DC)	4.0		
ELEC 50B	Electronic Circuits (AC)	4.0		
	<u>or</u>			
EST 50	Electrical Fundamentals	4.0		
	for Cable Installations			
ELEC 61	Electronic Assembly and Fabrication	3.0		
ELEC 62	Advanced Surface Mount Assembly	2.0		
	and Rework			
	Total Units	13.0		
Recomme	Recommended Flectives:			

Recommended Electives:

ELEC 63	Electronic Assemblies Recertification	1.
LLLC 03	Electronic Assemblies necertification	

Electronic Systems Technology

- Level I

Technology and Health Division Certificate E0990

This is a fast-track certificate program within the fields of information and electronic technology. These fields are growing at rapid rates. The program provides job skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks (business and home), home theater, home automation, and home security systems (integrated home systems). Typical job titles in these areas are data or cable technician, low-voltage wiring technician, home theatre installer, consumer electronics service technician and security system installer. The program prepares the student for the California State Contractors C-7 Low Voltage Systems license. The program encompasses a total of 27-29 units comprising two levels of certification. The Level I certification (15-16 units) develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for voice, video and data, and basic computer skills in word processing, spreadsheets, database and the Internet. Level II certification (12-13 units) adds customer relations and advanced skills in the installation, calibration, setup, maintenance, and troubleshooting of home theater systems, home automation, and home security systems. Either a course on preparing for the C-7 license or troubleshooting digital

TV with LCD, plasma, and DLP video displays is included. **Required Courses:**

ELEC 11	Technical Applications in Microcomputers	3.0
	<u>or</u>	
CISB 15	Microcomputer Applications	4.0
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

Technology and Health Division 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.

Required Courses:

EMT 90	Emergency Medical Technician I	10.5
	Total Units	10.5

Special Information:

To remain in the program, student 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 Application Requirements:

 a) Applicant must be 18 years of age upon entrance into the course.

Programs of Study Leading to a Certificate

- b) High school graduate or equivalent.
- c) File a College application and be accepted as a student at Mt. San Antonio College.
- d) A physical examination, proof of certain immunizations, current certification in CPR, and a criminal background check are required of all students prior to entrance into the clinical setting. Forms and information will be provided upon entry into the course.

Selection Procedure:

The course is open to all students who meet the application requirements. All applicants are required to meet the Essential Functions in the Emergency Medical Technician Program.

Physical Demands:

- Perform prolonged, extensive or considerable standing/walking, lifting, positioning, pushing, and /or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling and crouching

Sensory Demands:

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive device)
- Distance vision: ability to see clearly 20 feet or more
- Depth perception: ability to judge distance and space relationship
- 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 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 criterion for admission into the EMT program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Fashion Design - Computer-Aided Business Division Certificate E1329

The Fashion Design - Computer-Aided certificate builds upon basic skills and provides students with intermediate technical and technological skills in fashion design and patternmaking. With a diversified skill base that includes CAD technology, students will be better prepared for above entry-level positions and/or advancement to new career opportunities.

Required Courses:

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

Fitness Specialist/Personal Trainer

Kinesiology, Athletics and Dance Division Certificate E0808

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

Required Courses:

NF 10	Nutrition for Personal Health	3.0
	and Wellness	
KIN 15	Administration of Fitness Programs	2.0
KIN 24	Kinesiology	2.0
KIN 38	Physiology of Exercise for Fitness	3.0
KIN 39	Techniques of Fitness Testing	2.0
KIN 40	Techniques of Teaching	2.0
	Cardiovascular Exercise	
KIN 41	Techniques of Teaching Weight Trainin	ıg 2.0
KIN 85	Fitness Specialist Internship	1.0
	Total Units	17.0
Recomme	ended Electives:	
DNCE 39A	Alignment and Correctives I	0.5

Gallery Design/Operation and Art Profession

Arts Division Certificate E1020

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

Required Courses:

ARTG 20	Art, Artists and Society	3.0
ARTG 21A	Introduction to Exhibition Production	3.0

ARTG 21B Intermediate Exhibition Production 3.0 The following course to be taken twice - once as an off-campus experience and once as an on-campus experience (2 Units)

ARTG 22A Exhibition Design and Art Gallery 1.
Operation Work Experience (off campus)

The following course to be taken twice - once as an off-campus experience and once as an on-campus experience (2 Units)

ARTG 22A Exhibition Design and Art Gallery 1.0
Operation Work Experience (on campus)
ARTC 100 Graphic Design I 3.0

PLUS select one (1) course from:

AHIS 5 History of Western Art: 3.0
Renaissance Through Modern

AHIS 6 History of Modern Art 3.0

Total Units 17.0

Hospitality: Food Services

Business Division Certificate E1390

This certificate prepares the holder to enter the food service field as a skilled food service worker in either food preparation or service.

Required Courses:

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

Hospitality: Hospitality Management - Level I

Business Division Certificate E1332

The Hospitality: Hospitality Management - Level I Certificate prepares the holder for an entry-level position within the hospitality industry.

Required Courses:

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	Total Units	10.0
RM 91	Hospitality Work Experience	1.0
RM 70	Introduction to Lodging	3.0
RM 53	Dining Room Service Management	3.0
RM 51	Introduction to Hospitality	3.0

Hospitality: Restaurant Management - Level I

Business Division Certificate E1333

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

Required Courses:

HRM 51	Introduction to Hospitality	3.0
HRM 52	Food Safety and Sanitation (1.50 Uni	ts)
HRM 53	Dining Room Service Management	3.0
HRM 91	Hospitality Work Experience	1.0
	Total Units	8.5

Information and Operating Systems Security

Business Division 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.

Required Courses:

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

Interior Design: Level I

Business Division

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.

Required Courses:

	Total Units	9.0
	and Decorative Arts	
ID 14	History of Furniture	3.0
	for Interior Design	
ID 12	Materials and Products	3.0
ID 10	Introduction to Interior Design	3.0

Introduction to Computer Information Technology

Business Division 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.

Required Courses:

	Total Units	11.5
CISW 11	Internet Technologies	4.0
CISB 15	Microcomputer Applications	4.0
CISB 11	Computer Information Systems	3.5
CICD 11	Campustan Information Contama	2.5

LVN 30-Unit Option

- Career Mobility Track

Technology and Health Division 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:

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for Math 51
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Possess a California Licensed Vocational Nurse license.

- 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.)

Required Courses

nequireu	courses.	
NURS 5	Psychiatric Nursing	3.0
NURS 8	Medical-Surgical Nursing: Circulation	5.5
	and Oxygenation	
NURS 9	Leadership in Nursing	1.0
NURS 10	Medical-Surgical Nursing:	4.0
	Integration/Regulation	
NURS 11	Preceptorship in Nursing	2.0
	Total Units	15.5

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:

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive device)
- 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 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.

Machine Operator

Technology and Health Division Certificate E0956

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

Required Courses:

MFG 10	Mathematics & Blueprint Reading	3.0
	for Manufacturing	
MFG 11	Manufacturing Processes I	2.0
MFG 12	Manufacturing Processes II	2.0

MFG 38	MasterCAM I	2.0
MFG 85	Manual Computerized Numerical	2.0
	Control (CNC) Programming	
	Total Units	11.0

MasterCAM

Technology and Health Division Certificate E0927

This certificate provides a strong background in MasterCAM 2-D, 3-D, and Solids packages along with the necessary machine shop theory and practice to input sound functional data into the CAD/CAM system.

Required Courses:

MFG 11	Manufacturing Processes I	2.0
MFG 38	MasterCAM I	2.0
MFG 38B	MasterCAM II	2.0
MFG 85	Manual Computerized Numerical	2.0
	Control (CNC) Programming	
	Total Unit	8.0

Nutrition Program Assistant

- Level I

Business Division Certificate E1331

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

Required Courses:

HRM 52	Food Safety and Sanitation	1.5
NF 20	Principles of Foods	3.0
NF 25	Essentials of Nutrition	3.0
	<u>or</u>	
NF 25H	Essentials of Nutrition - Honors	3.0
	<u>or</u>	
NF 10	Nutrition for Personal Health	3.0
	and Wellness	
NF 28	Cultural and Ethnic Foods	3.0
	Total Units	10.5

Nutrition Program Assistant

- Level II: Child Program Emphasis

Business Division Certificate E1335

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

Required Courses:

Level I as follows: (10.5 Units):

HRM 52	Food Safety and Sanitation	1.5
NF 20	Principles of Foods	3.0
NF 25	Essentials of Nutrition	3.0
	<u>or</u>	
NF 25H	Essentials of Nutrition - Honors	3.0
	<u>or</u>	
NF 10	Nutrition for Personal Health	3.0
	and Wellness	
NF 28	Cultural and Ethnic Foods	3.0
Plus the following Level II courses: (6 Units)		
CHLD 10	Child Growth and Development	3.0
CHLD 64	Health, Safety and Nutrition	3.0
	of Young Children	
	Total Units	16.5

Nutrition Program Assistant

- Level II: Weight Management Program Emphasis

Business Division Certificate E1336

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

Required Courses:

Level I as follows: (10.5 Units)

HRM 52	Food Safety and Sanitation	1.50	
NF 20	Principles of Foods	3.0	

NF 25	Essentials of Nutrition	3.0	
	<u>or</u>		
NF 25H	Essentials of Nutrition - Honors	3.0	
	<u>or</u>		
NF 10	Nutrition for Personal Health	3.0	
	and Wellness		
NF 28	Cultural and Ethnic Foods	3.0	
Plus the following Level II courses: (7 Units)			
NF 81	Cooking for Your Heart and Health	1.0	
KIN 34	Fitness for Living	3.0	
SPCH 26	Interpersonal Communication	3.0	
	Total Units	17.5	

Pilates Professional Teacher Training Phase I: Mat and Reformer Kinesiology, Athletics and Dance Division Certificate E0315

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.

Required Courses:

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 Reformer Repertoire	1.5		
DN-T 31	Pilates Teaching-Mat and Reformer	3.0		
KIN 3	First Aid and CPR	3.0		
KIN 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		
KINI 50A	Yoga	0.5		
	Total Units	17.0		

Radio Broadcasting Fundamental - Behind-the-Scenes

Arts Division 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.

Required Courses:

R-TV 01	Introduction to Broadcasting	3.0
R-TV 09	Broadcast Sales and Promotion	
R-TV 10	Radio Management and Progr	ammings.u
R-TV 11A	Beginning Radio Production	3.0
R-TV 96	Campus Radio Station Lab	1.0
R-TV 97A	Radio/Entertainment Industry	1.0 - 2.0
	Seminar	
R-TV 97B	Radio/Entertainment Industry	1.0
	Internship	
	Total Units	15.0 - 16.0

Radio Broadcasting Fundamental - On-Air

Arts Division 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.

Required Courses:

ı	qucu	40415451		
	R-TV 01	Introduction to Broadcasting		3.0
	R-TV 02	On-Air Personality Developme	nt	3.0
	R-TV 07A	Beginning Commercial Voice-O	Overs	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	Seminaı	1.0
	R-TV 97B	Radio/Entertainment Industry	1	1.0
		Internship		
		Total Units	15.0 - 1	6.0

Welding

Technology and Health Division 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.

WELD 40	Introduction to Welding	2.0	
WELD 70A	Beginning Arc Welding	3.0	
WELD 70B	Intermediate Arc Welding	3.0	
	Total Units	8.0	
Recommended Electives:			
WELD 60	Print Reading and Computations for Welders	3.0	
WELD 70C	Certification for Welders	3.0	
Note: Any higher level welding courses may be substituted for WELD 70A.			

SECTION EIGHT

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



Committed to Student Success

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 post-secondary study should they wish to transfer at a later date. The Associate in Arts for Transfer degrees are designed to provide students with a seamless transition for transfer with junior standing somewhere in the CSU system.

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:

- 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.

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 open-mindedness, respect for differences among people, and knowledge of self. By exposing students to different fields of study, general education courses provide an understanding of the human condition and of human accomplishments and encourage a lifelong interest in learning. Together with other Mt. San Antonio College degree requirements, the general education component of the associate degree prepares students to:

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

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

 Require post-secondary level skills in reading, writing, quantitative reasoning, and critical thinking.

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

GRADUATION REQUIREMENTS FOR 2012 13

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 63-64). 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, KINA, KINF, KINI, KINL, KINS, KINS 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

0

- Completing a more advanced college level mathematics course. 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 65-88 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 89-94 for listings of the Associate in Arts Degree in Liberal Arts & Sciences with areas of emphasis.

Programs of Study Leading to an Associate Degree

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

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

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

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

A. Communication and Critical Thinking

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

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

B. Science and Mathematics

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

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

C. Humanities

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

- study great work of the human imagination;
- increase awareness and appreciation of the traditional humanistic disciplines such as art, dance, drama, literature, and music;
- impart an understanding of the interrelationship between creative art, the humanities, and the self;

- provide exposure to both Western and non-Western cultures;
- may include a foreign language course that contains a cultural component as opposed to a course that focuses solely on skills acquisition.

D. Social Sciences

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

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

E. Lifelong Understanding and Self-Development

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

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

GENERAL EDUCATION 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: wtsac.html

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

GENERAL EDUCATION REQUIREMENTS FOR 2012-13							
AREA A:		OCEA 10	Introduction to Oceanography	AHIS 1H	Understanding the Visual Arts	THTR 11	Principles of Acting I
	cation in the English Language		Introduction to Oceanography	71113 111	- Honors	HUMANITIES	
(6 units):			- Honors	AHIS 3	History of Women and Gender in Art	ARAB 1	Elementary Arabic
	[1] courses from the following:	OCEA 10L	Introduction to Oceanography	AHIS 3H	History of Women and Gender in Art	ARAB 2	Continuing Elementary Arabic
	Freshman Composition		Laboratory		– Honors	CHIN 1	Elementary Chinese
ENGL 1AH	Freshman Composition — Honors	PHSC 3	Energy Science	AHIS 4	History of Western Art: Prehistoric	CHIN 2	Continuing Elementary Chinese
Select one [[1] courses from the following:	PHSC 7	Physical Science		Through Gothic	CHIN 3	Intermediate Chinese
SPCH 1A	Public Speaking	PHSC 7L	Physical Science Laboratory	AHIS 4H	History of Western Art: Prehistoric	CHIN 4	Continuing Intermediate Chinese
	Public Speaking — Honors	PHYS 1	Physics		Through Gothic — Honors	ENGL 1B	English – Introduction to
SPCH 2	Fundamentals of Communication		General Physics	AHIS 5	History of Western Art: Renaissance		Literary Types
SPCH 8	Professional and Organizational	PHYS 2BG	General Physics		Through Modern	ENGL 1BH	English – Introduction to
	Speaking	PHYS 4A	Engineering Physics	AHIS 5H	History of Western Art: Renaissance		Literary Types — Honors
SPCH 8H	Professional and Organizational	PHYS 4B	Engineering Physics		Through Modern — Honors	FRCH 1	Elementary French
	Speaking — Honors	PHYS 4C	Engineering Physics	AHIS 6	History of Modern Art	FRCH 2	Continuing Elementary French
AREA B:		LIFE SCIENCE		AHIS 6H	History of Modern Art — Honors	FRCH 3	Intermediate French
The Physic	cal Universe and Life (3 units):	AGOR 1	Horticultural Science	AHIS 9	History of Asian Art and Architecture	FRCH 4	Continuing Intermediate French
	[1] course from the Physical Sciences or	ANAT 10A	Introductory Human Anatomy	AHIS 10	A History of Greek and Roman Art	FRCH 5	Advanced French
Life Science		ANAT 10B	Introductory Human Physiology	AUUC 44	and Architecture	FRCH 6	Continuing Advanced French
PHYSICAL SO	CIENCES	ANAT 35	Human Anatomy	AHIS 11	History of African, Oceanic,	FRCH 60	French Culture Through Cinema
ASTR 5	Introduction to Astronomy	ANAT 36	Human Physiology	ALUC 12	and Native American Art	GERM 1	Elementary German
ASTR 5H	Introduction to Astronomy – Honors	ANTH 1	Biological Anthropology	AHIS 12	History of Precolumbian Art	GERM 2	Continuing Elementary German
ASTR 5L	Astronomical Observing Laboratory	ANTH 1H	Biological Anthropology — Honors Biological Anthropology Laboratory	AHIS 12H	History of Precolumbian Art — Honors World Architecture I	GERM 3 *HIST 1	Intermediate German History of the United States
ASTR 7	Geology of the Solar System	ANTH 1L BIOL 1	General Biology	ARCH 31 ARCH 32	World Architecture II	*HIST 3	World History: Prehistoric to
ASTR 8	Introduction to Stars, Galaxies,	BIOL 1	Plant and Animal Biology	ARTB 14	Basic Studio Arts	כ וכוח	Early Modern
	and the Universe	BIOL 2	Ecology and Field Biology	ARTD 14 ARTD 15A	Drawing: Beginning	*HIST 3H	World History: Prehistoric to
CHEM 10	Chemistry for Allied Health Majors	BIOL 4	Biology for Majors	ARTD 20	Design: Two-Dimensional	ווכ וכווו	Early Modern — Honors
CHEM 20	Introductory Organic	BIOL 4H	Biology for Majors — Honors	ARTD 25A	Beginning Painting I	*HIST 4	World History: Early Modern
CUEN 10	and Biochemistry	BIOL 6	Humans and the Environment	ARTG 20	Art, Artists and Society	11151 4	to the Present
CHEM 40	Introduction to General Chemistry	BIOL 6L	Humans and the Environment	ARTS 22	Design: Three-Dimensional	*HIST 4H	World History: Early Modern
CHEM 50	General Chemistry I	2.02.02	Laboratory	ARTS 30A	Ceramics: Beginning I		to the Present – Honors
CHEM 50H	General Chemistry I — Honors General Chemistry II	BIOL 8	Cell and Molecular Biology	ARTS 40A	Sculpture: Beginning	*HIST 7	History of the United States to 1877
GEOG 1	Elements of Physical Geography	BIOL 17	Neurobiology and Behavior	DN-T 20	History and Appreciation of Dance	*HIST 7H	History of the United States to 1877
GEOG 1H	Elements of Physical Geography	BIOL 20	Marine Biology	ID 14	History of Furniture		– Honors
dLod III	- Honors	BIOL 21	Marine Biology Laboratory		and Decorative Arts	*HIST 8	History of the United States from 1865
GEOG 1L	Physical Geography Laboratory	BIOL 34	Fundamentals of Genetics	MUS 7	Fundamentals of Music	*HIST 8H	History of the United States from 1865
	Physical Geography Laboratory	BIOL 34L	Fundamentals of Genetics Laboratory	MUS 11A	Music Literature Survey		- Honors
0200 1211	- Honors	MICR 1	Principles of Microbiology	MUS 11B	Music Literature Survey	*HIST 10	History of Premodern Asia
GEOL 1	Physical Geology	MICR 22	Microbiology	MUS 12	History of Jazz	*HIST 11	History of Modern Asia
GEOL 7	Geology of California	PSYC 1B	Biological Psychology	MUS 13	Introduction to Music Appreciation	*HIST 19	History of Mexico
GEOL 8	Earth Science	AREA C:		MUS 13H	Introduction to Music Appreciation	*HIST 30	History of the African American
GEOL 8H	Earth Science — Honors		lumanities (6 units):	14115 4 4 4	– Honors	*HIST 31	History of the African American
GEOL 8L	Earth Science Laboratory	Select two	[2] courses, six [6] units minimum, with	MUS 14A	World Music	*HIST 35	History of Africa
GEOL 9	Environmental Geology (at least one [1] course from the Arts and one [1] from	MUS 14B	American Folk Music	*HIST 36	Women in American History
GEOL 10	Natural Disasters	Humanities:		MUS 15 PHOT 15	Rock Music History and Appreciation	*HIST 39	California History
METO 3	Weather and the Atmospheric	ARTS		SPCH 4	History of Photography	*HIST 40 HUMA 1	History of the Mexican American
	Environment	AHIS 1	Understanding the Visual Arts, <u>or</u>	THTR 9	Performance of Literature Introduction to Theatre Arts	HUMA I ITAL 1	The Humanities Elementary Italian
METO 3L	Weather and the Atmospheric	ARTB 1	Understanding the Visual Arts	THTR 10	History of Theatre Arts	ITAL 1	Continuing Elementary Italian
	Environment Laboratory			IIIIN IV	HISTORY OF FINCALLE ALLS	IIAL Z	Continuing Liementary Italian

	GENERAL EDUCATION REQUIREMENTS FOR 2012-13 (CONTINUED)						
ITAL 3	Intermediate Italian	SIGN 202	American Deaf Culture	CHLD 1	Child, Family, School and Community	SOC 14H	Marriage and the Family— Honors
ITAL 3	Continuing Intermediate Italian	SPAN 1	Elementary Spanish		Child Growth and Development	*SOC 14f1	Child Development
ITAL 5	Advanced Italian	SPAN 2	Continuing Elementary Spanish		Child Growth and Development	SOC 20	Sociology of Ethnic Relations
ITAL 5	Continuing Advanced Italian	SPAN 3	Intermediate Spanish	לחבט וטח	- Honors	SOC 20H	Sociology of Ethnic Relations — Honors
ITAL 6	Italian Culture Through Cinema	SPAN 3	Continuing Intermediate Spanish	*CHLD 11	Child and Adolescent Development	SPCH 7	Intercultural Communication
JAPN 1	Elementary Japanese	SPAN 4 SPAN 5		GEOG 2		SPCH 7H	Intercultural Communication — Honors
JAPN 1 JAPN 2	Continuing Elementary Japanese	SPAN 5 SPAN 6	Advanced Spanish		Human Geography	*SPCH 26	Interpersonal Communication
			Continuing Advanced Spanish	GEOG 2H	Human Geography — Honors	*SPCH 26	
JAPN 3	Intermediate Japanese	SPAN 11	Spanish for the Spanish Speaking	GEOG 5	World Regional Geography		
JAPN 4	Continuing Intermediate Japanese	SPAN 12	Continuing Spanish for the Spanish	GEOG 8	The Urban World	SPCH 30	Gateway to Communication Studies
JAPN 5	Advanced Japanese	CDAN 25	Speaking	GEOG 30	Geography of California	AREA E:	
LATN 1	Elementary Latin	SPAN 25	Spanish Literature	GEOG 30H	Geography of California — Honors		nderstanding and Self-Development
LATN 2	Continuing Elementary Latin	AREA D:		*HIST 3	World History: Prehistoric	(3 units):	
LIT 1	Early American Literature	Social, Poli	itical and Economic Institutions	XIIICT 211	to Early Modern	Select one [1] course from the following:
LIT 2	Modern American Literature	(6 units):		*HIST 3H	World History: Prehistoric	AD 3	Chemical Dependency: Intervention,
LIT 3	Multicultural American Literature		y and American Institutions	VIII.67 .	to Early Modern — Honors		Treatment and Recovery
LIT 6A	Survey of English Literature		1] course from the following:	*HIST 4	World History: Early Modern	BIOL 5	Contemporary Health Issues
LIT 6B	Survey of English Literature	*HIST 1	History of the United States	VIII.CT	to the Present	BIOL 13	Human Reproduction, Development
LIT 10	Survey of Shakespeare	*HIST 7	History of the United States to 1877	*HIST 4H	World History: Early Modern		and Aging
LIT 11A	World Literature to 1650	*HIST 7H	History of the United States to 1877	VIIICT 4.0	to the Present — Honors	BIOL 15	Human Sexuality
LIT 11B	World Literature from 1650		- Honors	*HIST 10	History of Premodern Asia	BIOL 15H	Human Sexuality — Honors
LIT 14	Introduction to Modern Poetry	*HIST 8	History of the United States from 1865	*HIST 11	History of Modern Asia	BIOL 24	Introduction to Public Health
LIT 15	Introduction to Cinema	*HIST 8H	History of the United States from 1865	*HIST 19	History of Mexico	*CHLD 10	Child Growth and Development
LIT 20	African American Literature		– Honors	*HIST 35	History of Africa	*CHLD 10H	Child Growth and Development
LIT 25	Contemporary Mexican American	*HIST 30	History of the African American	*HIST 39	California History		– Honors
	Literature	*HIST 31	History of the African American	HIST 44	History of Native Americans	*CHLD 11	Child and Adolescent Development
LIT 36	Introduction to Mythology	*HIST 36	Women in American History	JOUR 100	Mass Media and Society	COUN 5	Career/Life Planning
LIT 40	Children's Literature	*HIST 40	History of the Mexican American	JOUR 107	Race, Culture, Sex,	FCS 41	Life Management
LIT 46	The Bible as Literature: Old Testament	POLI 1	Political Science		and Mass Media Images	KIN 34	Fitness for Living
LIT 47	The Bible as Literature:	POLI 1H	Political Science — Honors	POLI 2	Political Science	LEAD 55	Exploring Leadership
	New Testament	POLI 25	Politics of the Mexican American	*POLI 5	Political Theory I — Ancient to Modern	NF 10	Nutrition for Personal Health
PHIL 5	Introduction to Philosophy	POLI 35	African American Politics	*POLI 7	Political Theory II — Early Modern		and Wellness
PHIL 5H	Introduction to Philosophy — Honors	Flective Co	ourses – select at least one [1] course		to Contemporary	NF 25	Essentials of Nutrition
PHIL 12	Ethics		ollowing list (3 units):	POLI 9	Introduction to International	NF 25H	Essentials of Nutrition — Honors
PHIL 12H	Ethics — Honors	AGAG 1	Food Production, Land Use and		Relations	NF 28	Cultural and Ethnic Foods
PHIL 15	Major World Religions	riaria i	Politics — A Global Perspective	POLI 10	Environmental Politics	*PSYC 14	Developmental Psychology
PHIL 15H	Major World Religions — Honors	AGFR 20	Conservation of Natural Resources	PSYC 1A	Introduction to Psychology	*PSYC 15	Introduction to Child Psychology
PHIL 20A	History of Western Philosophy	ANTH 3	Archaeology	PSYC 1AH	Introduction to Psychology — Honors	*PSYC 25	The Psychology of Women
PHIL 20AH	History of Western Philosophy	ANTH 5	Principles of Cultural Anthropology	*PSYC 14	Developmental Psychology	PSYC 26	Psychology of Sexuality
	- Honors	ANTH 22	General Cultural Anthropology	*PSYC 15	Introduction to Child Psychology	PSYC 33	Psychology for Effective Living
PHIL 20B	History of Western Philosophy	ANTH 30	The Native American	PSYC 19	Abnormal Psychology	*SOC 15	Child Development
PHIL 20BH	History of Western Philosophy	BUSC 1A	Principles of Economics	*PSYC 25	The Psychology of Women	*SPCH 26	Interpersonal Communication
	- Honors	מסטכ ווו	Macroeconomics	SOC 1	Sociology		Interpersonal Communication
*POLI 5	Political Theory I — Ancient to Modern	RIISC 1AH	Principles of Economics	SOC 1H	Sociology — Honors		- Honors
*POLI 7	Political Theory II — Early Modern	וואו אכטע	Macroeconomics — Honors	SOC 2	Sociology		
	to Contemporary	BUSC 1B	Principles of Economics	SOC 2H	Sociology — Honors		
SIGN 101	American Sign Language 1	מו אכטע	– Microeconomics	SOC 4	Introduction to Gerontology	*Courses m	ay not be double counted to satisfy more
SIGN 102	American Sign Language 2	RIISC 1RH	Principles of Economics	SOC 5	Introduction to Criminology		rea, even if a course is listed in more than
SIGN 103	American Sign Language 3	וועו אכטע	Microeconomics — Honors	SOC 5H	Introduction to Criminology — Honors	one area.	,
SIGN 104	American Sign Language 4		Microcconomics Honors	SOC 14	Marriage and the Family		

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

Mt. San Antonio College offers two year occupational degrees in the following section of this Catalog. To qualify for the degree, students must complete the required courses for the major as shown, plus additional general education courses as listed on pages 63-64. For further information, please consult with the Counseling Center on the upper level of the Student Sevices Center.

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Accounting

Business Division Degree S0502

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

Required Courses:

BUSA 7	Principles of Accounting - Financial	5.0
BUSA 8	Principles of Accounting - Managerial	5.0
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
BUSO 25	Business Communications	3.0
CISB 15	Microcomputer Applications	4.0
	Total Units 36.0 - 3	37.0

Administrative Assistant

Business Division Degree S0514

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

Required Courses:

	Total Units 2	8.0 - 30.0
CISW 15	Web Site Development	4.0
CISB 61	Desktop Publishing Software	3.0
CISB 16	Macintosh Applications	2.0
BUSO 26	Oral Communications for Busine	ess 3.0
Select on	e (1) course from: (2-4 Units)	
CISI 41	Office Management Skills	3.0
CISI 11	Computer Keyboarding	3.0
CISB 51	Microsoft PowerPoint	3.0
CISB 31	Microsoft Word	3.0
CISB 21	Microsoft Excel	4.0
CISB 15	Microcomputer Applications	4.0
BUSO 25	Business Communications	3.0
BUSO 5	Business English	3.0

Agri-Technology Natural Sciences Division Degree S0101

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive Agricultural Sciences program and is unique in that most courses provide hands-on experiences designed to give the students a combination of practical skills and technical knowledge.

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 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 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.

Required Courses:

AGAG 1	Food Production, Land Use	3.0
	and Politics - A Global Perspective	
AGAG 91	Agricultural Calculations	3.0
AGAN 1	Animal Science	3.0
AGOR 1	Horticultural Science	3.0
AGOR 32	Landscaping	3.0
	and Nursery Management	
AGOR 56	Engine Diagnostics	3.0
AGOR 71	Landscape Construction Fundamental	s 3.0
PLUS sele	ect three (3) courses from:	
AGFR 20	Conservation of Natural Resources	3.0
AGLI 14	Swine Production	3.0
AGLI 16	Horse Production and Management	4.0
AGLI 17	Sheep Production	3.0
AGLI 30	Beef Production	3.0
AGOR 24	Integrated Pest Management	3.0
AGOR 62	Landscape Irrigation	3.0
	- Design and Installation	
AGPE 70	Pet Shop Management	3.0
AGPE 71	Canine Management	3.0
	Total Units 30.0 -	31.0

Air Conditioning and Refrigeration Technology and Health Division Degree S0909

The Air Conditioning and Refrigeration (AIRC) Degree Program prepares students for entry level employment or for advancement of existing skills/knowledge without requiring any prior knowledge or experience. In addition to exposing students to core topics such as mechanical and electrical fundamentals, the Program includes coursework in heat loads, advanced electrical and mechanical, welding, math, codes and standards,

and air properties. Hands-on labs throughout the program expose students to a cross-section of systems and equipment used in the industry.

The 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, repairs and controls. There are no prerequisites and/or enrollment limitations.

Required Courses:

nequireu	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 and Standard	s 3.0
AIRC 20	Refrigeration Fundamentals	4.0
AIRC 25	Electrical Fundamentals	5.0
	for Air Conditioning and Refrigeration	1
AIRC 26	Gas Heating Fundamentals	2.0
AIRC 30	Heat Load Calculations & Design	4.0
AIRC 31	Commercial Electrical	4.0
	for Air Conditioning and Refrigeration	1
AIRC 32A	Air Properties and Measurement	1.5
AIRC 34	Advanced Mechanical Refrigeration	4.0
	Total Units	31.5

Airframe and Aircraft Powerplant Maintenance Technology - Day Technology and Health Division Degree S0911

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

3.0

3.0

3.0

This program offers a day or evening 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.

Required Courses:

qucu	40415451	
AIRM 65A	Aircraft Powerplant	13.0
	Maintenance Technology	
AIRM 65B	Aircraft Powerplant	13.0
	Maintenance Technology	
AIRM 66A	Airframe Maintenance Technology	13.0
AIRM 66B	Airframe Maintenance Technology	13.0
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
	Total Units	67.0
Recomme	nded Electives:	
AIRM 74	Aircraft Maintenance Technology	2.0
	- Work Experience	
AIRM 80	Lab Studies in Aircraft	0.5
	Maintenance Technology	
EDT 12	Technical Engineering Drawing II	3.0
PHYS 1	Physics	4.0
	•	

Airframe and Aircraft Powerplant Maintenance Technology - Evening

Technology and Health Division Degree S0951

This program prepares students to enter employment as a certified airframe and poweplant 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 or evening 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.

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

	1.0	j
AIRM 72	Aviation Materials and Processes	1.5
AIRM 73	Aviation Welding	1.5
AIRM 90A	Airframe Maintenance Technology	3.0
AIRM 90B	Airframe Maintenance Technology	3.0
AIRM 91A	Airframe Maintenance Technology	3.0
AIRM 91B	Airframe Maintenance Technology	3.0
AIRM 92A	Airframe Maintenance Technology	3.0
AIRM 92B	Airframe Maintenance Technology	3.0
AIRM 93A	Airframe Maintenance Technology	3.0
AIRM 93B	Airframe Maintenance Technology	3.0
AIRM 95A	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 95B	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 96A	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 96B	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 97A	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 97B	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 98A	Aircraft Powerplant Maintenance	3.0
	Technology	
AIRM 98B	Aircraft Powerplant Maintenance	3.0
	Technology	
	Total Units	63.0
	ended Electives:	
AIRM 74	Aircraft Maintenance Technology	2.0
	- Work Experience	
AIRM 80	Lab Studies in Aircraft Maintenance	0.5
	Technology	
EDT 12	Technical Engineering Drawing II	3.0
PHYS 1	Physics	4.0

Alcohol/Drug Counseling

Technology and Health Division Degree 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.

variety of electrical dependant settings.			
Required Courses:			
AD 1	Alcohol/Drug Dependency	3.0	
AD 2	Physiological Effects of Alcohol/Drugs	3.0	
AD 3	Chemical Dependency: Intervention,	3.0	
	Treatment and Recovery		
AD 4	Issues in Domestic Violence	3.0	
AD 5	Chemical Dependency: Prevention	1.5	
	and Education		
AD 6	Dual Diagnosis	3.0	
Required skill courses:			
AD 8	Group Process and Leadership	3.0	
AD 9	Family Counseling	3.0	
AD 10	Client Record and Documentation	1.5	

and Referral

AD 11

PSYC 1AH

PSYC 19

SOC 1

nequirea	iicia work tourses.	
AD 13	Internship/Seminar	4.0
AD 14	Advanced Internship/Seminar	4.0
Select two	o (2) courses from:	
CHLD 10	Child Growth and Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth and Development - Hon	ors
3.0		
PSYC 1A	Introduction to Psychology	3.0
	or	

Introduction to Psychology – Honors 3.0

Techniques of Intervention

SOC 1H Sociology – Honors 3.0 SOC 14 Marriage and the Family 3.0 SOC 15 Child Development 3.0 Total Units 41.0

Eligibility Requirements and Selection Procedures

Abnormal Psychology

Sociology

Eligibility Requirements: • File a College application and be accepted as a

File a College application and be accepted as a student at Mt. San Antonio College.

Selection Procedures

 All classes are open to all students who meet admission requirements and course prerequisites.

Special Instructions:

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

Working Environment:

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

English Language Skills:

Although proficiency in English is not a criterion 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

Arts Division Degree \$1006

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 technologybased skills which are essential for today's careers in animation. The program offers both an A.S. degree and certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation for a career in animation or for transfer to an institution of higher learning.

Required Courses:

nequireu (.ourses:	
ANIM 101A	Drawing - Gesture and Figure	3.0
ANIM 104	Drawing Fundamentals	3.0
	<u>or</u>	
ARTD 15A	Drawing: Beginning	3.0
ANIM 108	Principles of Animation	3.0
ANIM 115	Storyboarding	3.0
ANIM 116	Character Development	1.5
ANIM 130	Introduction to 3-D Computer	3.0
	Animation	
ARTC 290	Portfolio	3.0
ARTC 100	Graphic Design I	3.0
ARTD 17A	Drawing: Life	3.0
ARTD 20	Design: Two-Dimensional	3.0
ARTS 22	Design: Three-Dimensional	3.0
PLUS selec	t one course from:	
ANIM 109	Advanced Principles of Animation	3.0
ANIM 117	Animation Background Layout	3.0
ANIM 120	Script Development for Animation	3.0
ANIM 131	Introduction to Gaming	3.0
ANIM 132	Modeling, Texture Mapping	3.0
	and Lighting	
ANIM 172	Motion Graphics, Compositing	3.0
	and Visual Effects	
ANIM 175	Web Animation With Flash	3.0
ARTD 16	Drawing: Perspective	3.0
	Total Units	34.5
Recomme	nded Electives:	
AHIS 4	History of Western Art:	3.0

Prehistoric Through Gothic

AHIS 5	History of Western Art:	3.0
	Renaissance Through Modern	
ANIM 111A	Animal Drawing	1.5
ANIM 111B	Animal Drawing	1.5
ANIM 131	Introduction to Gaming	3.0
ANIM 148	Demo-Reel	1.5

Applied Laboratory Science Technology (ALST)

Natural Sciences Division Degree S0307

This program provides theoretical and technical training to prepare students for employment as entry-level chemical technicians in fields such as chemical quality control, chemical process control, analytical chemistry, water quality, and research and development. The program includes a broad-based overview of workforce options and emphasizes development of analytical skills, instrument proficiency, critical thinking, and troubleshooting of experimental designs and outcomes.

Required Courses:

nequireu	courses:	
BUSM 10	Principles of Continuous	3.0
	Quality Improvement	
CHEM 20	Introductory Organic and Biochemis	try 5.0
CHEM 50	General Chemistry I	5.0
	or	
CHEM 50H	General Chemistry I - Honors	5.0
CHEM 51	General Chemistry II	5.0
CHEM 60	Quantitative Chemical Analysis	5.0
CHMT 1	Introduction to Chemical	3.0
	Laboratory Technology	
CHMT 8	Work Experience 1	.0 - 2.0
	in Chemical Technology	
PLUS sele	ct (6-7) six or seven units from:	
MICR 22	Microbiology	4.0
PHIL 12	Ethics	3.0
	<u>or</u>	
PHIL 12H	Ethics - Honors	3.0
SPCH 26	Interpersonal Communication	3.0
	<u>or</u>	
SPCH 26H	Interpersonal Communication - Hor	iors 3.0
	Total Units 33.0	- 35.0

Architectural Technology - Design Concentration

Technology and Health Division Degree 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.

ARCH 10	Design I - Elements of Design	3.0
ARCH 11	Architectural Drawing	3.0
ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 13	Architectural Illustration	3.0
ARCH 16	Basic CAD and Computer Application	4.0
ARCH 21	Design II - Architectural Design	3.0
ARCH 23	Architectural Presentations	3.0
ARCH 27	Design III - Environmental Design	3.0
ARCH 29	Design IV - Advanced Project	3.0
ARCH 31	World Architecture I	3.0
ARCH 32	World Architecture II	3.0
PLUS Sele	ct one (1) course from: (3 Units)	
ARCH 15	Architectural Working Drawings - I	3.0
ARCH 18	Architectural CAD and BIM	3.0
PLUS Sele	ct one (1) course from: (1-3 Units)	
ARCH 14	Building and Zoning Codes	3.0
ARCH 15	Architectural Working Drawings - I	3.0
ARCH 18	Architectural CAD and BIM	3.0
ARCH 26	Architectural CAD Working Drawings	3.0
ARCH 28	Architectural CAD Illustration	3.0
	and Animation	
ARCH 89	Architectural Work Experience	1.0
INSP 70	Elements of Construction	3.0
	Total Units 39.0 - 4	11.0
Recomme	nded Electives:	
ARTD 15A	Drawing: Beginning	3.0
ARTD 20	Design: Two-Dimensional	3.0

ARTS 22	Design: Three-Dimensional	3.0	
BIOL 6	Humans and the Environment	3.0	
ENGL 1C	Critical Thinking and Writing	4.0	
MATH 150	Trigonometry	3.0	
PHYS 2AG	General Physics	4.0	
ENGL 1C, MATH 150, and PHYS 2AG are typically required			
for transfer to a professional school of architecture. Verify			
all requirements with the transfer institution.			

Architectural Technology - Technology Concentration

Technology and Health Division Degree 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.

Required Courses:

ARCH 10	Design I - Elements of Design	3.0
ARCH 11	Architectural Drawing	3.0
ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 14	Building and Zoning Codes	3.0
ARCH 15	Architectural Working Drawings - I	3.0
ARCH 16	Basic CAD and Computer Application	4.0
ARCH 18	Architectural CAD and BIM	3.0
ARCH 26	Architectural CAD Working Drawings	3.0
ARCH 28	Architectural CAD Illustration	3.0
	and Animation	
ARCH 29	Design IV - Advanced Project	3.0
EDT 20	Technical Descriptive Geometry	3.0
INSP 70	Elements of Construction	3.0
PLUS Sele	ct one (1) course from: (1-3 Units)	
ARCH 13	Architectural Illustration	3.0
ARCH 21	Design II - Architectural Design	3.0
ARCH 23	Architectural Presentations	3.0
ARCH 31	World Architecture I	3.0
ARCH 32	World Architecture II	3.0

ARCH 89	Architectural Work Experience	1.0
EDT 26	Civil Engineering Technology and CAD	3.0
INSP 71	Construction Estimating	3.0
Recomme	nded Electives:	
MATH 150	Trigonometry	3.0
PHYS 2AG	General Physics	4.0
	Total Units 39.0 - 4	1.0

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

Aviation Science

Technology and Health Division Degree S0910

This curriculum meets the requirements of the Federal Aviation Administration Collegiate Training Initiative (CTI). Under an educational partnership agreement with the FAA, this CTI program prepares students for broad-based aviation careers. Students completing this CTI program may be recommended by the college for hiring by the FAA as air traffic controllers. There are no prerequisites or enrollment limitations.

Required Courses:

a courses.			
Primary Pilot Ground School	4.0		
Navigation	3.0		
Aviation Weather	3.0		
Aviation Safety and Human Factors	3.0		
Federal Aviation Regulations	2.0		
Instrument Ground School	3.0		
Aircraft Recognition and Performan	ce 3.0		
Terminal Air Traffic Control	3.0		
Enroute Air Traffic Control	3.0		
Air Traffic Control Team Skills	1.5		
Computer Information Systems	3.5		
Air Transportation	3.0		
Total Units	35.0		
Recommended Electives:			
Commercial Pilot Ground School	3.0		
Aircraft and Engines	3.0		
Flight	1.0		
	Primary Pilot Ground School Navigation Aviation Weather Aviation Safety and Human Factors Federal Aviation Regulations Instrument Ground School Aircraft Recognition and Performan Terminal Air Traffic Control Enroute Air Traffic Control Air Traffic Control Team Skills Computer Information Systems Air Transportation Total Units Internated Electives: Commercial Pilot Ground School Aircraft and Engines		

Flight Laboratory

BUSM 60

Human Relations in Business

Building Automation

Technology and Health Division Degree S0308

This program is designed to prepare the student for a career in the fields of Building Automation, Energy Management, and Green Building Technologies. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Required Courses:

AIRC 20	Refrigeration Fundamentals	4.0
AIRC 25	Electrical Fundamentals	5.0
	for Air Conditioning and Refrigeration	n
AIRC 31	Commercial Electrical	4.0
	for Air Conditioning and Refrigeration	n
AIRC 34	Advanced Mechanical Refrigeration	4.0
AIRC 61	Building Automation Fundamentals	2.5
AIRC 63	Building Control Networks	3.0
AIRC 65	Building Automation Networks	3.0
	and Programming	
AIRC 67	Energy Management	4.0
CISN 11	Telecommunications Networking	4.0
CISW 41	XML Secure Programming	3.0
CISW 49	Service Oriented Architecture	3.0
	Concepts & Practice	
	Total Units	39.5

Business: Management

Business Division Degree S0506

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

Required Courses:

1.0

3.0

BUSA 7	Principles of Accounting - Financial	5.0
BUSM 10	Principles of Continuous	3.0
	Quality Improvement	
BUSM 20	Principles of Business	3.0
BUSM 51	Principles of International Business	3.0
BUSM 60	Human Relations in Business	3.0
BUSM 61	Business Organization	3.0

	and Management	
BUSM 62	Human Resource Management	3.0
BUSS 36	Principles of Marketing	3.0
CISB 15	Microcomputer Applications	4.0
	Total Units	30.0
Recomme	ended Electives:	
BUSM 81	Work Experience in Business	1.0
BUSM 85	Special Issues in Business	2.0
BUSS 85	Special Issues in Marketing	2.0

Business: Retail Management

Business Division Degree S0509

This program exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management as well as the latest trends in this fast changing field. Completion of this program aids the student's search for an entry-level job in retail management.

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

Child Development

Business Division Degree \$1315

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

Child, Family, School and Community 3.0

Required Courses:

CHLD 1

CIILD I	Ciliu, raililly, School and Community	3.0
CHLD 5	Principles/Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 10	Child Growth and Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Development - Honors	
CHLD 64	Health, Safety and Nutrition	3.0
	of Young Children	
CHLD 66	Early Childhood Development	2.0
	Observation	
CHLD 66L	Early Childhood Development	1.0
	Observation Laboratory	
CHLD 67	Early Childhood Development	2.0
	Participation	
CHLD 67L	Early Childhood Development	1.0
	Participation Laboratory	
CHLD 68	Children With Special Needs	3.0
CHLD 69	Early Childhood Development	2.0
	Field Work Seminar	
CHLD 84	Guidance and Discipline	1.0
	in Child Development Settings	
CHLD 91	Early Childhood Development	1.0
	Field Work	
	Total Units	28.0

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

Recommended Electives:

CHLD 50 Teaching in a Diverse Society

CHLD 51	Early Literacy in Child Development	3.0
CHLD 61	Language Arts and Art Media for Young Children	3.0
CHLD 62	Music and Motor Development for Young Children	3.0
CHLD 63	Creative Sciencing and Math for Young Children	3.0
CHLD 71A	Administration of Child Development Programs	3.0
CHLD 71B	Management/Marketing/Personnel for ECD Programs	3.0
CHLD 72	Teacher, Parent, and Child Relationships	3.0
CHLD 73	Infant/Toddler Care and Development	3.0

Commercial Flight

Technology and Health Division Degree S0912

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

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

Required Courses:

AERO 23	Primary Pilot Ground School	4.0
AERO 24	Navigation	3.0
AERO 25	Commercial Pilot Ground School	3.0
AERO 26	Aviation Weather	3.0
AERO 27	Aviation Safety and Human Factors	3.0
AERO 28	Aircraft and Engines	3.0
AERO 29	Federal Aviation Regulations	2.0
AERO 30	Instrument Ground School	3.0
TRAN 17	Air Transportation	3.0
	Total Units	27.0
Recomme	ended Electives:	
AERO 40	Flight	1.0
AFRO 40I	Flight Laboratory	1.0

AERO 41	Basic Flight Simulator Laboratory	0.5	
AERO 58	Flight Instructor Ground School	3.0	
AIRT 41	Aircraft Recognition and Performance	e 3.0	
CISB 11	Computer Information Systems	3.5	
The Commercial Flight faculty recommends that			
students complement their studies with selected			
elective courses chosen from the list above. Students			
should meet with a professor of commercial flight to			
help them determine which electives would best suit			
their caree	er plans.		

Computer - Database Management Systems

Business Division Degree S0706

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

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

Required Courses:

CISD 14

CISB 11	Computer Information Systems	3.5
CISB 15	Microcomputer Applications	4.0
CISM 11	Systems Analysis and Design	3.5
CISN 21	Windows Operating System	4.0
	<u>or</u>	
CISN 31	Linux Operating System	4.0
BUSM 20	Principles of Business	3.0
	<u>or</u>	
BUSA 7	Principles of Accounting - Financial	5.0
PLUS selec	t one of the following two concentra	tions
Microsoft	Concentration (15 units):	
CISD 11	Database Management	4.0
	- Microsoft Access	

Advanced Database Management

- Microsoft Access	
Database Management	4.0
- Microsoft SQL Server	
Database Design	3.0
<u>or</u>	
ncentration (10 units):	
Database Management - Orac	le 4.0
Oracle Forms and Reports	3.0
Database Design	3.0
Total Units	28.0 - 35.0
	Database Management - Microsoft SQL Server Database Design or encentration (10 units): Database Management - Orac Oracle Forms and Reports Database Design

Computer and Networking Technology

Technology and Health Division Degree S0725

The Computer and Networking Technology program prepares students to become computer and networking service technicians. The program provides foundations in basic 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.

Required Courses:

CNET 50	PC Servicing	4.0
CNET 52	PC Operating Systems	4.0
CNET 54	PC Troubleshooting	4.0
CNET 56	Computer Networks	4.0
CNET 58	Server Systems	3.0
CNET 60	A+ Certification Preparation	2.0
CNET 62	Network+ Certification Preparation	2.0
CNET 64	Server+ Certification Preparation	2.0

3.0

CNET 66 ELEC 11	Security+ Certification Preparation Technical Applications	2.0 3.0
	in Microcomputers	
	<u>or</u>	
CISB 15	Microcomputer Applications	4.0
ELEC 50A	Electronic Circuits (DC)	4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 56	Digital Electronics	4.0
TECH 60	Customer Relations for the Technician	1.0
	Total Units 43.0 - 4	14.0
Recomme	ended Electives:	
ELEC 51	Electronic Devices	4.0
ELEC 74	Microcontroller Systems	4.0

Computer Graphics Digital Technology

Arts Division Degree S0319

Computer Graphics is a core discipline characterized by the fusion of artistic and technical theories, and the mastery of craft skills and techniques. Courses typically cover a wide range of topics from planning, composition, and communication to practical color management, workflow, editing, and the software and hardware processes involved in producing and applying digital imagery—the visual language used to communicate ideas.

The Computer Graphics Digital Technology degree and three professional certificates are essential education for individuals and professional practitioners who use or are interested in using computers to prepare, edit, and produce imagery, text, sound, animation, video or multimedia presentations whether for personal use and interest, career preparation, portfolios, updating software skills, university matriculation, or any other expressive form of industry.

Required Courses:

GRAP8	Fundamentals of Digital Media	3.0
GRAP 9	Digital Color Management	3.0
GRAP 10	Photoshop Imagery	3.0
GRAP 12	Photoshop Imagery Extended	3.0
GRAP 15	InDesign Graphics	3.0
GRAP 16	Illustrator Graphics	3.0
GRAP 18	3D Graphics Imagery	3.0
GRAP 20	Multimedia Graphics	3.0

	Total Units	29.0
GRAP 40	Computer Graphics Special Topics	2.0
GRAP 30	Digital Productions	3.0

Computer Network Administration and Security Management

Business Division Degree 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.

Required Courses:

CISN 11	Telecommunications Networking	g 4.0
CISN 24	Window Server Network	4.0
	and Security Administration	
CISN 51	Cisco CCNA Networking and Rou	ting 4.0
CISS 21	Network Vulnerabilities	4.0
	and Countermeasures	
CISS 23	Network Analysis,	4.0
	Intrusion Detection/Prevention S	Systems
CISS 25	Network Security and Firewalls	4.0
CISS 29	CNASM Service Learning	1.0
PLUS Sele	ect one (1) course from: (3.5-4	Units)
CISB 11	Computer Information Systems	3.5
CISN 21	Windows Operating System	4.0
CISN 31	Linux Operating System	4.0
CISN 34	Linux Networking and Security	4.0
	Total Units	28.5 - 29

Computer Programming

Business Division Degree 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 object-oriented methodologies. Students may select one of four programming language concentrations: C++, Visual Basic, Java or C#.

Required Courses:

CISB 11	Computer Information Systems	3.5
CISB 15	Microcomputer Applications	4.0
CISM 11	Systems Analysis and Design	3.5
CISN 21	Windows Operating System	4.0
	<u>or</u>	
CISN 31	Linux Operating System	4.0
CISP 10	Principles of Object-Oriented Design	2.0
BUSM 20	Principles of Business	3.0
	<u>or</u>	
BUSA 7	Principles of Accounting - Financial	5.0
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 following concentrations:	
C ++		
CISP 31	Programming in C++	4.0
CISP 34	Advanced C++ Programming	4.0
Visual Bas	sic:	
CISP 11	Programming in Visual Basic	4.0
CISP 14	Advanced Visual Basic Programming	4.0

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

Construction Inspection

Technology and Health Division Degree 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

ARCH 12	Architectural Materials	4.0
	and Specifications	
ARCH 14	Building and Zoning Codes	3.0
INSP 17	Legal Aspects/Construct	3.0
INSP 70	Elements of Construction	3.0
INSP 71	Construction Estimating	3.0
INSP 87	Fund Construct Inspect	3.0
	Total Units	19.0
Recomme	ended Electives:	
ARCH 11	Architectural Drawing	3.0
ARCH 15	Architectural Working Drawings - I	3.0
INSP 67	Reading Construction Drawings	3.0

Correctional Sciences

Technology and Health Division Degree 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.

Required Courses:

ADJU 68	Administration of Justice Report Writing	3.0
CORS 10	Introduction to Correctional Sciences	3.0
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 Sele	ct four (4) courses from: (12 Units)
ADJU 1	The Administration of Justice System	3.0
ADJU 2	Principles and Procedures	3.0
	of the Justice System	
ADJU 20	Principles of Investigation	3.0
ADJU 38	Narcotics Investigation	3.0
ADJU 59	Gangs and Corrections	3.0
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:	
KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire Techn	nology
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice and Fire Techn	nology
KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Technology and Forestry	ology,

The Correctional Sciences faculty recommends 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

Humanities and Social Sciences Division Degree 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.

Required Courses

CHLD 1	CHLD 1 Child, Family, School and Community	
CHLD 10	Child Growth and Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth and Development	3.0
	- Honors	
	<u>or</u>	
PSYC 14	Developmental Psychology	3.0
CHLD 68	Children With Special Needs	3.0
EDUC 10	Introduction to Education	3.0
EDUC 16	Aspects/Issues Teaching	3.0
ENGL 1A	Freshman Composition	4.0
	<u>or</u>	
ENGL 1AH	Freshman Composition - Honors	4.0
MATH 71	Intermediate Algebra	5.0
	Total Units	24.0
Recomme	nded Electives	
CHLD 51	Early Literacy in Child Development	3.0
CHLD 64	Health, Safety and Nutrition	3.0
	of Young Children	
LIT 40	Children's Literature	3.0
KIN 3	First Aid and CPR	3.0

Electronics and Computer Engineering Technology

Technology and Health Division Degree S0906

The Electronics and Computer Engineering Technology (ECET) degree program prepares individuals either for initial employment or for enhancement of existing skills in the electronics field. 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, fields 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.). There are no prerequisites and/or enrollment limitations.

Required Courses:

nequireu	courses:	
ELEC 11	Technical Applications	3.0
	in Microcomputers	
ELEC 12	Computer Simulation	2.0
	and Troubleshooting	
ELEC 50A	Electronic Circuits (DC)	4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Electronic Devices	4.0
ELEC 53	Communications Circuits	4.0
ELEC 54A	Industrial Electronics	4.0
ELEC 54B	Industrial Electronic Systems	3.0
ELEC 55	Microwave Communications	4.0
ELEC 56	Digital Electronics	4.0
ELEC 61	Electronic Assembly and Fabrication	3.0
ELEC 74	Microcontroller Systems	4.0
TECH 60	Customer Relations for the Technician	1.0
	Total Units	44.0

Recommended Electives:

CISP 11	Programming in Visual Basic	4.0
EDT 11	Technical Engineering Drawing I	3.0
ELEC 62	Advanced Surface Mount Assembly	2.0
	and Rework	
ELEC 76	Radio Telephone Communications	3.0
PHYS 2AG	General Physics	4.0

Emergency Medical Services Technology and Health Division Degree \$1210

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 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.

nequireu	Loui ses.	
EMS 10	Anatomy and Physiology	2.0
	for Paramedics	
EMS 20	Emergency Cardiac Care for Paramedia	cs 1.0
EMS 30	Pharmacology for Paramedics	2.5
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	37.5
Recomme	nded Electives:	
ADJU 1	The Administration	3.0
	of the Justice System	
FIRE 1	Fire Protection Organization	3.0
PSYC 1A	Introduction to Psychology	3.0
SOC 1	Sociology	3.0

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

Special Information

To remain in the program, students must maintain a grade of "C" (80%) or better in all courses, per state regulations. Before starting clinical rotations, students must pass a criminal background check. Upon successful completion of the required courses, students are granted a certificate documenting completion of the Paramedic Program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

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 program. 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:

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

- 1) Be an EMT-I currently certified in California.
- Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of pre-hospital field experience as an EMT-I (approximately 1,200 hours) within the last two years.
- 3) File a college application and be accepted as a student at Mt. San Antonio College.
- 4) Submit an application for the Paramedic Program to the Technology and Health Division Office (909)594-5611, Ext.4750. All applications are dated upon receipt in the Technology and Health Division Office. The Paramedic Program begins two times per year and runs for 29 weeks.

- 5) Take the Assessment of Written English, Math Placement test, and degrees of Reading Power test at least ten working days before the start of the pre-course EMS 1 and EMS 2. Placement examinations will be individually assessed to determine eligibility for the pre-courses. The placement test is administered by the Assessment Center in the Student Services Center
- 6) Successful completion of EMS-1, Fundamentals for Paramedics and EMS 2, Preparation for Paramedic Program.
- 7) Forward two official transcripts of all coursework completed (high school, EMT-I, Fire Science, and other than Mt. San Antonio College courses). One transcript must be sent to the Technology and Health Division Office, the other to the Admissions and Records Office. NOTE: If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Indicate in the mailing address the program for which transcripts are being sent to the Technology and Health Division Office.

EXAMPLE:

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

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

ALL APPLICANTS ARE EXPECTED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE PARAMEDIC PROGRAM

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

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

Working Environment:

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

English Language Skills:

Although proficiency in English is not a criterion 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 Technology and Health Division Degree 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.

ı	quii cu	40415451	
	EDT 11	Technical Engineering Drawing I	3.0
	EDT 12	Technical Engineering Drawing II	3.0
	EDT 14	Mechanical Design - Geometric	3.0
		Dimensioning and Tolerancing	
	EDT 16	Basic CAD and Computer Applications	4.0
	EDT 18	Engineering CAD Applications	4.0
	EDT 20	Technical Descriptive Geometry	3.0
	EDT 24	Engineering CAD 3-D Solids	3.0
		and Surfaces	
	EDT 26	Civil Engineering Technology and CAD	3.0
	EDT 28	Engineering CAD	3.0
		3-D Illustration/Animation	
	ELEC 50A	Electronic Circuits (DC)	4.0
	ELEC 50B	Electronic Circuits (AC)	4.0
	MFG 11	Manufacturing Processes I	2.0
		Total Units	39.0
	Recomme	nded Electives:	
	EDT 89	Engineering Design Technology	1.0
		Work Experience	
	ENGR 8	Properties of Materials	4.0

Equipment Technology

Natural Sciences Division Degree S0118

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

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

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

Required Courses:

nequireu	Courses.	
AGAG 1	Food Production, Land Use	3.0
	and Politics - A Global Perspect	tive
AGAG 59	Work Experience in Agriculture	1.0 - 4.0
AGOR 51	Tractor and Landscape Equipm	ent 3.0
	Operations	
AGOR 52	Hydraulics	3.0
AGOR 53	Small Engine Repair I	3.0
AGOR 54	Small Engine Repair II	3.0
AGOR 55	Diesel Engine Repair	3.0
AGOR 56	Engine Diagnostics	3.0
AGOR 57	Power Train Repair	3.0
AGOR 71	Landscape Construction Funda	mentals3.0
AGOR 72	Landscape Hardscape Applicati	ions 3.0
CISB 15	Microcomputer Applications	4.0
	Total Units	35.0 - 38.0

Fashion Design

Business Division Degree S1320

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

Required Courses:

FASH 8	Introduction to Fashion	3.0
FASH 9	History of Costume and Fashion	3.0
FASH 10	Clothing Construction I	3.0
FASH 12	Clothing Construction II	3.0
FASH 15	Fashion and Identity	3.0
FASH 17	Textiles	3.0
FASH 20	Illustration for Fashion	3.0
	and Costume Design	
FASH 21	Patternmaking I	3.0
FASH 22	Fashion Design By Draping	3.0
FASH 23	Patternmaking II	3.0
FASH 25	Fashion Computer-Assisted Drawing	3.0
FASH 30	Fashion Design and Product	3.0
	Development I	
	Total Units	36.0
Recomme	ended Electives	
FASH 24	Fashion Patternmaking by Computer	3.0
FASH 26	Fashion Computer Assisted Design	2.0
FASH 35	Special Topics in Fashion Design	2.0
FASH 81	Work Experience in Fashion	1.0
FASH 90	Field Studies	1.0
FASH 91	Field Studies - New York	2.0
FASH 92	Field Studies - Fashion Capitals	3.0
FCS 41	Life Management	3.0

Fashion Merchandising

Business Division Degree \$1308

The A.S. Degree in Fashion Merchandising is designed to prepare students for entry-level careers in the apparel industry in Southern California. This A.S. program also offers students courses specializing in retail management, advertising, textiles, and visual communications that prepare students for advanced studies in this field. The courses emphasize the business of fashion, wholesale merchandise planning, and apparel branding targeting specific markets. Upon completion of the program, students will be able to develop marketing strategies, create promotional campaigns, understand the buying process, and analyze retail businesses. Entry-level employment opportunities available after completion of this program may include retail sales, small store merchandising, and showroom assisting.

Required Courses:

Required	Courses:	
FASH 8	Introduction to Fashion	3.0
FASH 9	History of Costume and Fashion	3.0
FASH 10	Clothing Construction I	3.0
FASH 15	Fashion and Identity	3.0
FASH 17	Textiles	3.0
FASH 25	Fashion Computer-Assisted Drawing	3.0
FASH 30	Fashion Design	3.0
	and Product Development I	
FASH 62	Retail Store Management	3.0
	and Merchandising	
	<u>or</u>	
BUSS 50	Retail Store Management	3.0
	and Merchandising	
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
Recomme	nded Electives:	
FASH 90	Field Studies	1.0
FASH 91	Field Studies - New York	2.0
FASH 92	Field Studies - Fashion Capitals	3.0
FCS 41	Life Management	3.0

Fire Technology

Technology and Health Division Degree S2105

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.

FIRE 1	Fire Protection Organization	3.0
FIRE 2	Fire Prevention Technology	3.0
FIRE 3	Fire Protection Equipment and	d Systems3.0
FIRE 4	Building Construction	3.0
	for Fire Protection	
FIRE 5	Fire Behavior and Combustion	3.0
FIRE 6	Hazardous Materials/ICS	3.0
PLUS Sele	ct two (2) courses from: (5.5	5-25 Units)
EMS 90	Emergency Medical Technician	n I 10.5
FIRE 7	Fire Tactics & Strategy	3.0
FIRE 8	Fire Company Organization	3.0
	and Management	
FIRE 9	Fire Hydraulics	3.0
FIRE 10	Arson and Fire Investigation	3.0
FIRE 11	Fire App & Equipment	3.0
FIRE 12	Wildland Fire Control	4.5
FIRE 86	Basic Fire Academy	14.5
KINF 53	Physical Training for the Basic	Fire 2.5
	Academy	
	Total Units	23.5 - 43.0
Recomme	nded Electives:	
KINF 50	Physical Skills Preparation for	2.0

KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire	
	Technology	
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice and Fire Technology	ology
KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Techno	logy,
	and Forestry	

General Business

Business Division Degree S0501

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

Required Courses:

BUSA 7	Principles of Accounting - Financ	ial 5.0
	<u>or</u>	
BUSA 72	Bookkeeping - Accounting	5.0
BUSL 18	Business Law	3.0
	<u>or</u>	
BUSL 18H	Business Law - Honors	3.0
BUSM 10	Principles of Continuous Quality	3.0
	Improvement	
BUSM 20	Principles of Business	3.0
BUSM 60	Human Relations in Business	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSM 62	Human Resource Management	3.0
BUSO 5	Business English	3.0
BUSO 25	Business Communications	3.0
BUSS 36	Principles of Marketing	3.0
CISB 15	Microcomputer Applications	4.0
Select six	(6) units from:	
BUSA Busi	ness: Accounting	1.0 - 5.0
BUSC Busin	ness: Economics	3.0
BUSL Busir	ness: Law	1.0 - 3.0
BUSM Busi	ness: Management	1.0 - 4.0
BUSS Busir	ness: Sales, Merchandising	1.0 - 4.0
and Marke	ting	
CISB Comp	uter Information Systems	2.0 - 4.0
Beginning		
	Total Units	42.0

Graphic Design

Arts Division Degree S0318

This program is designed to provide students with a combination of creative, design, problem solving, and technical skills necessary for entry-level employment as a Graphic Designer in the Commercial Art industry. Students completing this program are eligible for advanced training or transfer to a college or university for further study.

Required Courses:

ARTC 100 Graphic Design I

71111 € 100	diapine besign i	5.0
ARTC 120	Graphic Design II	3.0
ARTC 160	Typography	3.0
ARTC 165	Illustration	3.0
ARTC 290	Portfolio	3.0
ARTD 15A	Drawing: Beginning	3.0
ARTD 17A	Drawing: Life	3.0
ARTD 20	Design: Two Dimensional	3.0
ARTD 25A	Beginning Painting I	3.0
Plus selec	t (1) course from: (3 Units)	
AHIS 5	History of Western Art:	3.0
	Renaissance Through Modern	
AHIS 5H	History of Western Art:	3.0
	Renaissance Through Modern - Hone	ors
AHIS 6	History of Modern Art	3.0
ATHC CH	History of Madaus Aut Hanaus	2.0
AHIS 6H	History of Modern Art - Honors	3.0
AHIS 6H	Total Units	30.0
Recomme	Total Units ended Electives:	
	Total Units ended Electives: History of Western Art:	
Recomme	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic	30.0
Recomme	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing	30.0
Recomme AHIS 4	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic	30.0 3.0
Recomme AHIS 4	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash	30.0 3.0
Recomme AHIS 4 ANIM 172 ANIM 175 ARTC 140	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash Graphic Design III	30.0 3.0 3.0
Recomme AHIS 4 ANIM 172 ANIM 175	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash Graphic Design III Graphic Design Internship	30.0 3.0 3.0 3.0
Recomme AHIS 4 ANIM 172 ANIM 175 ARTC 140	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash Graphic Design III	3.0 3.0 3.0 3.0 3.0
Recomme AHIS 4 ANIM 172 ANIM 175 ARTC 140 ARTC 299	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash Graphic Design III Graphic Design Internship Drawing: Perspective Printmaking: Introduction	30.0 3.0 3.0 3.0 3.0 1.0
Recomme AHIS 4 ANIM 172 ANIM 175 ARTC 140 ARTC 299 ARTD 16	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash Graphic Design III Graphic Design Internship Drawing: Perspective Printmaking: Introduction to Screenprinting	3.0 3.0 3.0 3.0 3.0 1.0 3.0
Recomme AHIS 4 ANIM 172 ANIM 175 ARTC 140 ARTC 299 ARTD 16	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash Graphic Design III Graphic Design Internship Drawing: Perspective Printmaking: Introduction to Screenprinting Design: Three-Dimensional	3.0 3.0 3.0 3.0 3.0 1.0 3.0
Recomme AHIS 4 ANIM 172 ANIM 175 ARTC 140 ARTC 299 ARTD 16 ARTD 45A	Total Units Inded Electives: History of Western Art: Prehistoric Through Gothic Motion Graphics, Compositing and Visual Effects Web Animation With Flash Graphic Design III Graphic Design Internship Drawing: Perspective Printmaking: Introduction to Screenprinting	3.0 3.0 3.0 3.0 3.0 1.0 3.0 3.0

Histologic Technician Training Natural Sciences Division Degree \$1211

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.

Required Courses:

Required	Courses:	
ANAT 10B	Introductory Human Physiology	4.0
	<u>or</u>	
ANAT 36	Human Physiology	5.0
ANAT 35	Human Anatomy	5.0
CHEM 10	Chemistry for Allied Health Majors	4.0
	<u>or</u>	
CHEM 40	Introduction to General Chemistry	4.0
	<u>or</u>	
CHEM 50	General Chemistry I	5.0
	<u>or</u>	
CHEM 50H	General Chemistry I - Honors	5.0
HT 1	Introduction to Histotechnology	1.0
HT 2	Scientific Basics for Histologic	3.0
	Technicians	
HT 10	Histology	3.0
HT 12	Beginning Histotechniques	5.0
HT 14	Advanced Histotechniques	5.0
HT 16	Histochemistry/	4.0
	Immunohistochemistry	
HT 17	Work Experience in Histotechnology	4.0
MICR 1	Principles of Microbiology	5.0
	<u>or</u>	
MICR 22	Microbiology	4.0

Total Units

42.0 - 45.0

Horse Ranch Management

Natural Sciences Division Degree 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.

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

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

AGAG 59	Work Experience in Agricultur	e 1.0 -	4.0
AGAN 2	Animal Nutrition		3.0
AGAN 94	Animal Breeding		3.0
AGLI 16	Horse Production and Manage	ement	4.0
AGLI 18	Horse Ranch Management		4.0
AGLI 19	Horse Hoof Care		2.0
AGLI 20	Horse Behavior/Training		2.0
AGLI 96	Animal Sanitation and Diseas	e Control	3.0
AGLI 97	Artificial Insemination		2.0
PLUS sele	ct six (6) units from:		
AGOR 53	Small Engine Repair I		3.0
AGOR 71	Landscape Construction Funda	mentals	3.0
BUSM 20	Principles of Business		3.0
BUSM 66	Small Business Management		3.0
	Total Units	30.0 - 3	3.0

Hospitality and Restaurant Management

Business Division Degree 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.

Required Courses:

iicquii cu i	ioui sesi	
HRM 51	Introduction to Hospitality	3.0
HRM 52	Food Safety and Sanitation	1.5
HRM 53	Dining Room Service Management	3.0
HRM 54	Basic Cooking Techniques	3.0
HRM 56	Management of Hospitality Personne	13.0
	and Operations	
HRM 57	Restaurant Cost Control	3.0
HRM 64	Hospitality Financial Accounting I	3.0
HRM 66	Hospitality Law	3.0
HRM 70	Introduction to Lodging	3.0
PLUS selec	t three (3) units from:	
HRM 61	Menu Planning	3.0
HRM 62	Catering	3.0
HRM 91	Hospitality Work Experience	1.0
NF 20	Principles of Foods	3.0
	Total Units	28.5
Recomme	nded Elective:	

Hospitality Work Experience

Human Resource Management Business Division

Degree 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.

Required Courses:

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

Integrated Pest Management

Natural Sciences Division Degree 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 qualifies 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.

Required Courses:

AGOR 1	Horticultural Science	3.0
AGOR 24	Integrated Pest Management	3.0
AGOR 29	Ornamental Plants - Herbaceous	3.0
AGOR 30	Ornamental Plants - Trees	3.0
	and Woody Shrubs	
AGOR 39	Turf Grass 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 Operat	ions1.0
Students	must take at least 6 units of any	of the

Students must take at least 6 units of any of the following:

RIOT 1	General Biology	4.0
BIOL 2	Plant and Animal Biology	4.0
BIOL 3	Ecology and Field Biology	4.0
BIOL 4	Biology for Majors	4.0
BIOL 4H	Biology for Majors - Honors	4.0
BIOL 6	Humans and the Environment	3.0
BIOL 6L	Humans and the Environment	2.0
	Laboratory	
BIOL 8	Cell and Molecular Biology	4.0
BIOL 20	Marine Biology	3.0
BIOL 21	Marine Biology Laboratory	1.0
BIOL 34	Fundamentals of Genetics	3.0
BIOL 50	Biology Basic Skills (0.50 Units)	
BTNY 3	Plant Structures, Functions,	5.0
	and Diversity	
CHEM 10	Chemistry for Allied Health Majors	4.0
CHEM 20	Introductory Organic and Biochemistry	5.0
CHEM 40	Introduction to General Chemistry	4.0

	Total Units	42.0
AGOR 75	Urban Arboriculture	3.0
AGOR 40	Sports Turf Management	3.0
	Management	
AGOR 32	Landscaping and Nursery	3.0
AGOR 15	Interior Landscaping	3.0
	Management	
AGOR 2	Plant Propagation/Greenhouse	3.0
From the f	following list complete (9 Units)	
CHEM 81	Organic Chemistry	5.0
CHEM 80	Organic Chemistry	5.0
CHEM 60	Quantitative Chemical Analysis	5.0
CHEM 51	General Chemistry II	5.0
CHEM 50H	<u>or</u> General Chemistry I - Honors	5.0
CHEM 50	General Chemistry I	5.0

Interior Design

Business Division Degree \$1301

The Interior Design A.S. degree provides students with an excellent foundation for a successful career in interior design. Students will obtain the skill set necessary to obtain a variety of positions in the design field.

kequirea (Lourses:	
ID 10	Introduction to Interior Design	3.0
ID 12	Materials and Products	3.0
	for Interior Design	
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	3.0
	for Interior Design I	
ID 25	Codes and Specifications	3.0
	for Interior Design	
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 for Interior Design	3.0
ID 32	Lighting Design and Theory	3.0
	for Interior Design	

ID 34	Computer Aided Drawing	3.0
	for Interior Design II	
ID 36	Professional Practices	3.0
	for Interior Design	
	<u>or</u>	
ID 37	Business Practices for Interior Design	3.0
ID 38	Internship in Interior Design	2.0
	(1.0 - 3.0 unit course, 2.0 units require	ed)
ID 39	Interior Design Studio II	3.0
	Total Units	50.0
Recomm	Total Units ended Electives:	50.0
Recommo		50.0 3.0
	ended Electives:	
AGOR 13	ended Electives: Landscape Design	3.0
AGOR 13 AGOR 15	ended Electives: Landscape Design Interior Landscaping	3.0
AGOR 13 AGOR 15 ARCH 23	ended Electives: Landscape Design Interior Landscaping Architectural Presentations	3.0 3.0 3.0
AGOR 13 AGOR 15 ARCH 23 ARTG 20	ended Electives: Landscape Design Interior Landscaping Architectural Presentations Art, Artists and Society	3.0 3.0 3.0 3.0
AGOR 13 AGOR 15 ARCH 23 ARTG 20 BUSA 72	ended Electives: Landscape Design Interior Landscaping Architectural Presentations Art, Artists and Society Bookkeeping - Accounting	3.0 3.0 3.0 3.0 5.0 3.0

Interior Design-Kitchen and Bath

Business Division Degree \$1302

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.

Required Courses:

ID 10	Introduction to Interior Design	3.0
ID 12	Materials and Products	3.0
	for Interior Design	
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	3.0
	for Interior Design I	
ID 25	Space Planning for Interior Design I	3.0
ID 26	Space Planning for Interior Design II	3.0
ID 27	Rapid Visualization	3.0
ID 29	Interior Design Studio I	3.0
ID 31	Building Systems for Interior Design	3.0
ID 32	Lighting Design and Theory	3.0
	for Interior Design	
ID 34	Computer Aided Drawing	3.0
	for Interior Design II	
ID 36	Professional Practices	3.0
	for Interior Design	
	<u>or</u>	
ID 37	Business Practices for Interior Design	3.0
ID 38	Internship in Interior Design	2.0
	(1.0 - 3.0 unit course, 2.0 units required	d)
ID 39	Interior Design Studio II	3.0
ID 40	Kitchen and Bath Studio I	3.0
ID 41	Kitchen and Bath Studio II	3.0
ID 48	Internship in Kitchen and Bath	1.0
	Total Units 5	8.0
Recomme	nded Electives:	
ARCH 23	Architectural Presentations	3.0
BUSA 72	Bookkeeping - Accounting	5.0
BUSM 66	Small Business Management	3.0
BUSS 50	Retail Store Management	3.0
	and Merchandising	
ID 50	Interior Design Specialized Studio	3.0
10 =0		

International Business

Business Division Degree S0507

ID 52

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.

Independent Studies in Interior Design 1.0

Required Courses:

BUSL 20 International Business Law 3	١.
DUDL 20 IIILEIIIALIOIIAI DUSIIIESS LAW D	3.0
BUSM 20 Principles of Business 3	3.0
BUSM 50 World Culture: A Business Perspective 3	3.0

	<u>or</u>	
ANTH 22	General Cultural Anthropology	3.0
BUSM 51	Principles of International Business	3.0
BUSM 52	Principles of Exporting and Importing	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSM 66	Small Business Management	3.0
BUSS 36	Principles of Marketing	3.0
PLUS selec	ct one (1) course (4 Units)	
CHIN 1	Elementary Chinese	4.0
FRCH 1	Elementary French	4.0
GERM 1	Elementary German	4.0
ITAL 1	Elementary Italian	4.0
JAPN 1	Elementary Japanese	4.0
SPAN 1	Elementary Spanish	4.0
	Total Units	28.0
Recomme	nded Electives:	
BUSM 81	Work Experience in Business	1.0
BUSM 85	Special Issues in Business	2.0
BUSS 85	Special Issues in Marketing	2.0

Law Enforcement

Technology and Health Division Degree 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.

Required Courses:

ADJU 1	The Administration of Justice System	3.0
ADJU 2	Principles and Procedure	3.0
	of the Justice System	
ADJU 3	Concepts of Criminal Law	3.0
ADJU 4	Legal Aspects of Evidence	3.0
ADJU 5	Community Relations	3.0
ADJU 68	Administration of Justice	3.0
	Report Writing	
PLUS Sele	ct four (4) courses from: (12 Units)	
VDIII 6	Concents of Enforcement Services	2 N

ADJU 6	Concepts of Enforcement Services	3.0
ADJU 13	Concepts of Traffic Services	3.0
ADJU 20	Principles of Investigation	3.0
ADJU 38	Narcotics Investigation	3.0
ADJU 59	Gangs and Corrections	3.0
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
Recomm	ended Electives:	
KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire Te	chnology
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice and Fire Te	chnology
KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Tec	hnology,
	and Forestry	

Licensed Vocational Nurse to RN

Technology and Health Division Degree S1201

The Mt. San Antonio College Nursing Program, approved and accredited by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of coursework in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an 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 Degree in Nursing or completing the LVN 30-Unit Option track which leads to a certificate, not a degree.

Prerequsite Courses

- 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:

- 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.
- 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.)

Required Courses:

NURS 4	Maternity Nursing	3.0
NURS 5	Psychiatric Nursing	3.0
NURS 6	Pediatric Nursing	3.0
NURS 7	Medical-Surgical Nursing:	7.5
	Nutrition/Elimination/Surgical Asepsi	S
NURS 8	Medical-Surgical Nursing: Circulation	5.5
	and Oxygenation	
NURS 9	Leadership in Nursing	1.0
NURS 10	Medical-Surgical Nursing:	4.0
	Integration/Regulation	
NURS 11	Preceptorship in Nursing	2.0

Requirements for the Major: (26-29 Units)

nequireiii	ents for the major. (20-23 offics)		
ANAT 35	Human Anatomy	5.0	
ANAT 36	Human Physiology	5.0	
	<u>or</u>		
ANAT 10A	Introductory Human Anatomy	4.0	
ANAT 10B	Introductory Human Physiology	4.0	
MICR 1	Principles of Microbiology	5.0	
	<u>or</u>		
MICR 22	Microbiology	4.0	
ENGL 1A	Freshman Composition	4.0	
	<u>or</u>		
ENGL 1AH	Freshman Composition - Honors	4.0	
CHLD 10	Child Growth and Development	3.0	
	<u>or</u>		
CHLD 10H	Child Growth and Development	3.0	
	- Honors		
	<u>or</u>		
PSYC 14	Developmental Psychology	3.0	
PSYC 1A	Introduction to Psychology	3.0	
	<u>or</u>		
PSYC 1AH	Introduction to Psychology — Honors	3.0	
SPCH 1A	Public Speaking	4.0	
	<u>or</u>		,
SPCH 1AH	Public Speaking - Honors	4.0	(
	Total Units 55.0 - 5	8.0	
			1

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

Procedure:

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

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 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 ELIGIBILTY VERIFICATION WILL ONLY BE MADE DURING THE FOLLOWING MONTHS:

- September 1 October 31
- March 1 April 30

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

ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE NURSING PROGRAM.

Physical Demands:

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

 Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

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

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes - Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psycho logical 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

Natural Sciences Division Degree S0103

This certificate program is designed to give students basic skills in livestock management for employment opportunities on farms, ranches, and agriculture sales and services. All courses are applicable for degree requirements.

Required Courses: AGAG 1 Food Production, Land Use 3.0 and Politics - A Global Perspective AGAG 59 Work Experience in Agriculture 1.0 - 4.0 **Agricultural Calculations** AGAG 91 3.0 Animal Science AGAN 1 3.0 AGAN 2 Animal Nutrition 3.0 AGAN 94 Animal Breeding 3.0 AGLI 14 Swine Production 3.0 AGLI 16 Horse Production and Management 4.0 AGLI 17 **Sheep Production** 3.0 AGLI 30 **Beef Production** 3.0 Livestock Judg & Selec 2.0 AGLI 34 AGLI 96 Animal Sanitation and Disease Control 3.0 PLUS select (6 Units) Small Engine Repair I AGOR 53 3.0 AGOR 71 Landscape Construction Fundamentals 3.0 BUSM 20 **Principles of Business** 3.0 BUSM 66 Small Business Management 3.0 3.0 BUSS 35 Professional Selling BUSS 36 Principles of Marketing 3.0 **Total Units** 40.0 - 43.0

Manufacturing Technology Technology and Health Division Degree 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 certification 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.		
Required Courses:		
EDT 16	Basic CAD and Computer Applications	4.0
EDT 18	Engineering CAD Applications	4.0
MFG 10	Mathematics & Blueprint Reading	3.0
	for Manufacturing	
MFG 11	Manufacturing Processes I	2.0
MFG 12	Manufacturing Processes II	2.0
MFG 38	MasterCAM I	2.0
MFG 38B	MasterCAM II	2.0

Manual Computerized Numerical

Control (CNC) Programming

Introduction to Welding

Marketing Management Business Division

Total Units

Degree S0510

MFG 85

WELD 40

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.

Required Courses:

ı	nequirea	courses.	
	BUSA 7	Principles of Accounting - Financial	5.0
		<u>or</u>	
	BUSA 72	Bookkeeping - Accounting	5.0
	BUSM 20	Principles of Business	3.0
	BUSM 61	Business Organization	3.0
		and Management	
	BUSO 25	Business Communications	3.0
	BUSS 35	Professional Selling	3.0
	BUSS 36	Principles of Marketing	3.0
	BUSS 85	Special Issues in Marketing	2.0
	CISB 15	Microcomputer Applications	4.0
	PLUS sele	ct one (1) course from:	
	BUSC 1A	Principles of Economics	3.0
		- Macroeconomics	
		<u>or</u>	
	BUSC 1AH	Principles of Economics	3.0
		- Macroeconomics - Honors	
I	BUSC 1B	Principles of Economics	3.0
I		- Microeconomics	

	<u>or</u>	
BUSC 1BH	Principles of Economics	3.0
	- Microeconomics - Honors	
BUSC 17	Applied Business Statistics	3.0
BUSM 60	Human Relations in Business	3.0
BUSO 5	Business English	3.0
	Total Units	29.0

Mental Health Technology - Psychiatric Technician

MENT 40 Introduction to Interviewing

and Counseling

Technology and Health Division Degree 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.

Required Courses:

2.0

2.0

23.0

MENT 56	Medical-Surgical Nursing	9.0
	for Psychiatric Technicians	
MENT 56L	Medical-Surgical Clinical Experience	4.0
MENT 580	and Pharmacology for PT	4.0
MENT 58L	Advanced Medical-Surgical Nursing for Psychiatric Technicians Clinical	1.5
MENT 70	Introduction to Psychiatric Technology	1.5
MENT 70L	Introduction to Psychiatric Technology Clinical Technicians	2.0
MENT 72	Nursing Care of the Developmentally Disabled Person	7.0
MENT 72L	Nursing Care of the Developmentally Disabled Person - Clinical	5.5
MENT 73L	Psychiatric Nursing for Psychiatric Technicians Clinical	5.5
MENT 73T	Psychiatric Nursing for Psychiatric Technicians	6.0
MENT 82	Work Experience in Mental Health Technology	2.0
PSYC 1A	Introduction to Psychology or	3.0
PSYC 1AH	, , , , , , , , , , , , , , , , , , , ,	3.0 54.0

Special Information:

Additional general education courses needed for completion of the 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.

3.0

- 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 courses were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Indicate in the mailing address the program for which your transcript is being sent to the Technology and Health Division Office. EXAMPLE:
 - Mt. San Antonio College Technology and Health Division Psychiatric Technician Program 1100 North Grand Avenue Walnut. CA 91789-1399
- h) A physical examination, including specific immunizations, and consent/disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that he/she does not have tuberculosis. These requirements are in accordance with the healthcare agency policy that insure that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as part of this physical examination. Proof of high school graduation and malpractice insurance are required of all candidates upon acceptance.
- i) Certain convictions may prevent a candidate

- from being licensed as a Psychiatric Technician.
- j) All students will be required to pass a background check prior to entering the clinical education phase.

Selection Procedure:

In determining eligibility of an applicant, consideration will be given to satisfactory scores on the English Placement Test. The College will make every effort to notify the applicant of acceptance by mail no less than two months prior to the beginning of a program. ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE MENTAL HEALTH TECHNOLOGY - PSYCHIATRIC TECHNICIAN PROGRAM.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and/ or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heaving 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 device)
- 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 a 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, psycho logical 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 criterion for admission into the Mental Health Technology - Psychiatric Technician program, students must be able to speak, write and read English to complete classes successfully and to ensure patient safety.

Nursing

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

Prerequisite courses:

- Human Anatomy, including a laboratory component, a minimum of four (4) semester units.
- Human Physiology, including a laboratory component, a minimum of four (4) semester units.
- 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:

 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 immunization 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 Register Nursing at (916) 322-3350 or access its website at

www.rn.ca.gov

Required Courses:

Requirements for Nursing: (44.5 Units)

nequirem	cites for italising. (TTIS offics)	
NURS 1A	The Nursing Process I	5.0
NURS 1B	The Nursing Process II	5.0
NURS 2	Pharmacology	2.0
NURS 3	Medical-Surgical Nursing:	3.5
	Locomotion/Sensation/Integument/	
	Oncology/Immunology	
NURS 4	Maternity Nursing	3.0
NURS 5	Psychiatric Nursing	3.0
NURS 6	Pediatric Nursing	3.0
NURS 7	Medical-Surgical Nursing:	7.5
	Nutrition/Elimination/Surgical Asepsi	S
NURS 8	Medical-Surgical Nursing: Circulation	5.5
	and Oxygenation	
NURS 9	Leadership in Nursing	1.0

Required Courses:

AGOR 71

NURS 10	Medical-Surgical Nursing:	4.0
	Integration/Regulation	
NURS 11	Preceptorship in Nursing	2.0
Requirem	ents for the Major: (26-29 Units)	
ANAT 35	Human Anatomy	5.0
ANAT 36	Human Physiology	5.0
	<u>or</u>	
ANAT 10A	Introductory Human Anatomy	4.0
ANAT 10B	Introductory Human Physiology	4.0
MICR 1	Principles of Microbiology	5.0
	<u>or</u>	
MICR 22	Microbiology	4.0
ENGL 1A	Freshman Composition	4.0
	<u>or</u>	
ENGL 1AH	Freshman Composition - Honors	4.0
CHLD 10	Child Growth and Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth and Development	3.0
	- Honors	
	<u>or</u>	
PSYC 14	Developmental Psychology	3.0
PSYC 1A	Introduction to Psychology	3.0
	<u>or</u>	
PSYC 1AH	Introduction to Psychology - Honors	3.0
SPCH 1A	Public Speaking	4.0
	<u>or</u>	
SPCH 1AH	Public Speaking - Honors	4.0
	Total Units 70.5 - 1	73.5
DCVC 1A		

• 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:

Please check the Nursing Website (http://www.mtsac.edu/instruction/techhealth/nursing) for information on the application process. 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 heaving effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling and crouching

Sensory Demands:

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

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts

- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a 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

Natural Sciences Division Degree 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

nequireu	nequired courses.			
AGAG 1	Food Production, Land Use	3.0		
	and Politics - A Global Perspective			
AGOR 1	Horticultural Science	3.0		
AGOR 2	Plant Propagation/Greenhouse	3.0		
	Management			
AGOR 13	Landscape Design	3.0		
AGOR 24	Integrated Pest Management	3.0		
AGOR 29	Ornamental Plants - Herbaceous	3.0		
AGOR 30	Ornamental Plants - Trees	3.0		
	and Woody Shrubs			
AGOR 32	Landscaping and Nursery	3.0		
	Management			
AGOR 39	Turf Grass Production	3.0		
	and Management			
AGOR 50	Soil Science and Management	3.0		
AGOR 62	Landscape Irrigation - Design	3.0		
	and Installation			

Complete one (1) to four (4) units from the following course:

Landscape Construction Fundamentals 3.0

AGOR 91 Work Experience in Nursery Operations 1.0 PLUS select six (6) units from: AGOR 15 Interior Landscaping 3.0 AGOR 40 Sports Turf Management 3.0 AGOR 51 Tractor and Landscape Equipment 3.0 Operations AGOR 53 Small Engine Repair I 3.0 AGOR 63 Landscape Irrigation Systems 3.0 Management AGOR 72 Landscape Hardscape Applications 3.0 Urban Arboriculture AGOR 75 3.0 CISB 15 Microcomputer Applications 4.0

Total Units

43.0 - 46.0

Paralegal/Legal Assistant

Business Division Degree 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 qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyer. The California Business & Professions Code Section 6450 et seg, governs paralegals in California.

Required Courses:

PLGL 30	Introduction to Paralegal/Legal	3.0
PLGL 31A	Legal Analysis and Writing	3.0
PLGL 31B	Advanced Legal Analysis and Writing	3.0
PLGL 33A	Civil Procedure Pretrial	3.0
PLGL 33B	Civil Procedure-Trial and Post-Trial	3.0
PLGL 35A	Law Office Procedures	3.0
PLGL 35B	Automated Law Office Procedures	3.0
PLGL 37	Tort Law	3.0
PLGL 38	Employment and Ethical Issues	2.0
	in Paralegalism	
PLGL 39	Contract Law	3.0
PLUS choo	ose two (2) courses from:	
PLGL 40	Landlord-Tenant Law	3.0
PLGL 41	Property Law	3.0
PLGL 42	Family Law	3.0
PLGL 43	Wills and Trusts	3.0
PLGL 44	Bankruptcy Law	3.0
PLGL 45	Creditors' Rights	3.0
PLGL 48	Criminal Law and Procedures	3.0
PLGL 49	Evidence Law	3.0
PLGL 50	Comparative Law	3.0
BUSL 18	Business Law	3.0
	<u>or</u>	

BUSL 18H	Business Law - Honors	3.0
BUSL 19	Advanced Business Law	3.0
BUSL 20	International Business Law	3.0
	Total Units	35.0

Park and Sports Turf Management Natural Sciences Division Degree 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 man-

age 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.

Doguired Courses

kequirea courses:			
	AGOR 4	Park Management	3.0
	AGOR 5	Park Facilities	3.0
	AGOR 13	Landscape Design	3.0
	AGOR 24	Integrated Pest Management	3.0
	AGOR 29	Ornamental Plants - Herbaceous	3.0
	AGOR 30	Ornamental Plants - Trees	3.0
		and Woody Shrubs	
	AGOR 39	Turf Grass Production	3.0
		and Management	
	AGOR 40	Sports Turf Management	3.0
	AGOR 50	Soil Science and Management	3.0

AGOR 51	Tractor and Landscape Equipment	3.0
	Operations	
AGOR 62	Landscape Irrigation - Design	3.0
	and Installation	
AGOR 63	Landscape Irrigation Systems	3.0
	Management	
AGOR 71	Landscape Construction Fundamentals	3.0
AGOR 73	Landscaping Laws, Contracting,	3.0
	and Estimating	
AGOR 75	Urban Arboriculture	3.0
Complete	one (1) to four (4) units from the fo	ol-
lowing co	IKCO	

lowing course

AGOR 91 Work Experience in Nursery Operations 1.0 **Total Units** 46.0 - 49.0

Pet Science

Natural Sciences Division Degree 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. 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 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.

Required Courses:

AGAN 1	Animal Science	3.0
AGAN 2	Animal Nutrition	3.0
AGAN 51	Animal Handling and Restraint	3.0
AGAN 94	Animal Breeding	3.0
AGLI 96	Animal Sanitation and Disease Control	3.0
AGPE 70	Pet Shop Management	3.0

AGPE 71	Canine Management	3.0
AGPE 72	Feline Management	3.0
AGPE 73	Tropical and Coldwater	2.0
	Fish Management	
AGPE 74	Reptile Management	2.0
AGPE 76	Aviculture - Cage and Aviary Birds	3.0
	Total Units	31.0

Photography

Arts Division Degree S1002

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

Required Courses

PHOT 1

PHOT 25

PHOT 29

nequireu	Courses:	
GRAP 10	Photoshop Imagery	3.0
PHOT 10	Basic Digital and Film Photography	3.0
PHOT 11	Professional Photography	4.0
PHOT 12	Photographic Alternatives	3.0
PHOT 14	Commercial Lighting	3.0
PHOT 15	History of Photography	3.0
PHOT 16	Fashion Photography	3.0
	<u>or</u>	
PHOT 18	Portraiture and Wedding Photograph	ny 3.0
PHOT 17	Photocommunication	3.0
PHOT 20	Color Photography	3.0
PHOT 21	Exploring Color Photography	3.0
PHOT 28	Photography Portfolio Development	3.0
PHOT 30	Commercial and Illustrative	3.0
	Photography	
	Total Units	37.0
Recomme	nded Electives:	
AHIS 1	Understanding the Visual Arts	3.0
ARTB 1	Understanding the Visual Arts	3.0

Laboratory Studies:

Black and White Photography

Digital Capture Workflow

Studio Business Practices

for Commercial Artists

1.0

3.0

3.0

Physical Education

Kinesiology, Athletics and Dance Division Degree S0806

This program is designed to prepare students for employment in the field of Physical Education. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to file an educational plan and to discuss transferability.

Required Courses:

KINA Kinesiology: Aquatics

KINI Kinesiology: Individual

KINL Kinesiology: Adaptive

Total Units

KINS Kinesiology: Sports

KINF Kinesiology: Fitness

ANAT 35	Human Anatomy	5.0
ANAT 36	Human Physiology	5.0
NF 10	Nutrition for Personal Health	3.0
	and Wellness	
	<u>or</u>	
NF 25	Essentials of Nutrition	3.0
	<u>or</u>	
NF 25H	Essentials of Nutrition - Honors	3.0
KIN 3	First Aid and CPR	3.0
	<u>or</u>	
KIN 5	Advanced First Aid/CPR/	3.0
	Emergency Response	
	<u>or</u>	
KIN 17	Introduction to Physical Education	3.0
KIN 19	Introduction to Care/Prevention	3.0
	of Activity/Sports -Related Injurie	S
KIN 34	Fitness for Living	3.0
PLUS: Sel	ect eight (8) courses from:	
DNCE Danc	e Activity	0.5 - 2.0

Psychiatric Technician to RN

Technology and Health Division Degree S1209

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

The Psychiatric Technician is provided career mobility into the Nursing Program to earn an Associate degree in Nursing.

Prerequsite Courses:

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

Non-course requirements:

0.5 - 2.0

0.5 - 2.5

0.5 - 1.0

0.5 - 1.0

0.5 - 1.0

29.0 - 42.5

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of the courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for MATH 51.
- High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Possess a current California Psychiatric Technician License.

- 6. Criminal background check and drug screening must be passed prior to any patient contact.
- A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes.
- 8. Current Level C-Provider CPR certification
- 9. Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70: Role Transition Due to the clinical component of NURS 70, applicants must submit their names to Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Psychiatric Technician License, physical, CPR card, Background Check, and drug test prior to the start of class.)

Required Courses:

NURS 3

Requirements for Nursing: (29.5 Units)

Medical-Surgical Nursing:

כ כווטוו	Medical-Surgical Nursing.	ر.ر
	Locomotion/Sensation/Integument/	
	Oncology/Immunology	
NURS 4	Maternity Nursing	3.0
NURS 6	Pediatric Nursing	3.0
NURS 7	Medical-Surgical Nursing:	7.5
	Nutrition/Elimination/ Surgical Aseps	is
NURS 8	Medical-Surgical Nursing:	5.5
	Circulation and Oxygenation	
NURS 9	Leadership in Nursing	1.0
NURS 10	Medical-Surgical Nursing:	4.0
	Integration/Regulation	4.0
NURS 11	Preceptorship in Nursing	2.0
Requirem	ents for the Major: (26-29 Units)	
ANAT 35	Human Anatomy	5.0
ANAT 36	Human Physiology	5.0
	<u>or</u>	
ANAT 10A	Introductory Human Anatomy	4.0
ANAT 10B	Introductory Human Physiology	4.0
MICR 1	Principles of Microbiology	5.0
	<u>or</u>	
MICR 22	Microbiology	4.0
ENGL 1A	Freshman Composition	4.0
	<u>or</u>	

ENGL 1AH	Freshman Composition - Honors	4.0
CHLD 10	Child Growth and Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth and Development	3.0
	- Honors	
	<u>or</u>	
PSYC 14	Developmental Psychology	3.0
PSYC 1A	Introduction to Psychology	3.0
	<u>or</u>	
PSYC 1AH	Introduction to Psychology - Honors	3.0
SPCH 1A	Public Speaking	4.0
	<u>or</u>	
SPCH 1AH	Public Speaking - Honors	4.0
	Total Units 55.5 -	58.5

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

Requirements for the Associate degree

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

Selection Process

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

Procedure:

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

The eligibility appointment:

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

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

APPOINTMENTS FOR ELIGIBILTY VERIFICATION WILL ONLY BE MADE DURING THE FOLLOWING MONTHS:

- September 1 October 31
- March 1 April 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use. ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE NURSING PROGRAM.

Physical Demands:

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

Sensory Demands:

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

- · Distance vision: ability to see clearly 20 feet or more
- Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- · Hearing: able to recognize a full range of tones **Working Environment:**
- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne
- · Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- · Requires decisions/actions related to end life issues
- · Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a 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**

Arts Division Degree 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 entrylevel 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.

Required Courses:

R -TV 01	Introduction to Broadcasting	3.0
R-TV 09	Broadcast Sales and Promotion	3.0
R-TV 10	Radio Management and Programming	3.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 11B	Advanced Radio Production	3.0
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
The fellow	ing courses much be taken	

The following courses must be taken simultaneously:

R-TV 97A	Radio/Entertainment Industry Seminar 1.	0
R-TV 97B	Radio/Entertainment Industry 1.	0
	Internship	

PLUS select nine (9) units from:

	T : 111 ':	24.0
	and Procedures	
R-TV 33	Radio Show Producer Techniques	3.0
R-TV 32	Radio - TV Internet Applications	3.0
R-TV 31	History of Radio DJs	3.0
R-TV 26	Current Issues in Entertainment Law	3.0

Total Units 33.0 - 34.0

Radio Broadcasting: On the Air **Arts Division**

Degree S0605

The Radio Broadcasting On-The-Air degree is designed to prepare students for an entry-level job in a variety of performance areas of the broadcasting industry, including disc 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.

Required Courses:

R -TV 01	Introduction to Broadcasting	3.0
T-TV 02	On-Air Personality Development	3.0
	<u>or</u>	
R-TV 02A	On-Air Personality Development	3.0
	- Spanish Market	

-TV 05	Radio-TV Newswriting	3.0	
-TV 07A	Beginning Commercial Voice-Overs	3.0	
-TV 11A	Beginning Radio Production	3.0	
-TV 11B	Advanced Radio Production	3.0	
-TV 15	Broadcast Business Practices	3.0	
-TV 96	Campus Radio Station Lab 1.	0 - 2.0	
he follov	ne following courses are must be taken		
	multanaaualu		

simultaneously

R-TV 97A	Radio/Entertainment Industry Seminal	r 1.0
R-TV 97B	Radio/Entertainment Industry	1.0
	Internship	

PLUS Select nine (9) courses from:

R-

R-

R-TV 03	Sportscasting and Reporting	1.
R-TV 04	Broadcast News Field Reporting	3.
R-TV 06	Broadcast Traffic Reporting	1.
R-TV 07B	Advanced Commercial Voice-Overs	3.
R-TV 09	Broadcast Sales and Promotion	3.
R-TV 10	Radio Management and Programming	3.
R-TV 12	Commercial Copywriting	3.
R-TV 17	Internet Radio and Podcasting	3.
R-TV 26	Current Issues in Entertainment Law	3.
R-TV 31	History of Radio DJs	3.
R-TV 32	Radio - TV Internet Applications	3.
R-TV 33	Radio Show Producer Techniques	3.
	and Procedures	

33.0 - 34.0

Radiologic Technology

Total Units

Technology and Health Division Degree 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 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.

Required Courses:

ANAT 10A	Introductory Human Anatomy	4.0
MEDI 90	Medical Terminology	3.0
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
RAD 52A	Techniques of Radiologic Technology	5.0
RAD 52B	Techniques of Radiologic Technology	2.5
RAD 53	Techniques of Radiologic Technology	5.0
RAD 54	Techniques of Radiologic Technology	3.0
RAD 55A	Techniques of Radiologic Technology	7.5
RAD 55B	Techniques of Radiologic Technology	2.5
RAD 56	Techniques of Radiologic Technology	7.0
RAD 57	Techniques of Radiologic Technology	4.5
RAD 61A	Theory of Radiologic Technology	4.0
RAD 61B	Radiographic Positioning	3.0
RAD 61C	Radiologic Technology Seminar	1.5
RAD 62A	Theory of Radiologic Technology	4.0
RAD 62B	Radiographic Positioning	3.0
RAD 62C	Radiologic Technology Seminar	1.5
RAD 63	Theory of Radiologic Technology	4.0
RAD 64	Theory of Radiologic Technology	4.0
RAD 91	Nursing Procedures	1.5
	in Radiologic Technology	
	Total Units	79.0

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 fallowing requirements

- a) Applicant must be 18 years of age upon entrance into the program.
- b) High school graduate or equivalent.
- c) Possess a valid Social Security Card. This is a

- licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.
- d) File a college application and be accepted as a student at Mt. San Antonio College.
- e) Take the college placement examination which is used as an indicator. If you have already taken a college placement test exam within the past two years at another school, arrange to have your scores forwarded to the Technology and Health Division Office. (If you were tested at Mt. San Antonio College, the Technology and Health Division Office will obtain the test scores as long as an "Application for Admission" is on file with the Admission 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 Chemistry (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.
- h) Forward two official transcripts of all coursework completed (high school, and other than Mt. San Antonio College courses). One transcript must be sent to Technology and Health Division Office and the other to

- Admission and Records.
- i) For students who possess a college degree, the English placement test is not required, however, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to Technology and Health Division Office and the other to Admission and Records. If the courses were taken and /or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Request the transcript for the Division Office be addressed as follows:

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

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

Acceptance Requirements:

- a) A mandatory orientation meeting with the Radiologic Technology Department will be held during the spring semester. You will be contacted with date and time of orientation once you have been accepted.
- b) A physical examination, including certain immunization and drug testing is required as part of the physical examination for all radiologic technology students before entrance into the clinical setting. Forms and information will be provided at time of orientation.
- All students will be required to pass a criminal background check prior to entering the clinical education phase (a valid Social Security number is required to complete this process.)

Selection Procedure:

Selection of students is based upon the completion of the above admission requirements and date of application. The Department will make every effort to notify the applicant of the 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.
- b) 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 agent, 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, psycho logical 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 may have sufficient strength, motor coordination, manual dexterity, intellectual capacity, and sensory functions to be able to:

- a) Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.
- b) Lift arms above the head to move the x-ray tube assembly.
- c) Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.
- d) Maneuver well enough to physically protect himself or herself from injury caused by patients

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

English Language Skills:

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

Real Estate

Business Division Degree S0512

This program prepares students for employment following graduation. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. The requirements for a degree in real estate include the eight classes needed prior to applying to take the Real Estate Broker License Exam as well as several additional classes designed to strengthen the skills needed to succeed in a career in real estate.

Required Courses:

BUSR 50	Real Estate Principles	3.0
BUSR 51	Legal Aspects of Real Estate	3.0
BUSR 52	Real Estate Practice	3.0
BUSR 52D	Real Estate Practice Work Experience	3.0
BUSR 53	Real Estate Finance	3.0
BUSR 55	Real Estate Economics	3.0
BUSR 81	Appraisal: Principles and Procedures	3.5
CISB 15	Microcomputer Applications	4.0
PLUS		

Group A

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

BUSR 57	Income Tax Aspects of Real Estate	3.0
	Investments	
BUSR 59	Real Estate Property Management	3.0
BUSR 60	Real Estate Investment Planning	3.0
BUSR 62	Mortgage Loan Brokering and Lending	3.0
BUSR 76	Escrow Procedures I	3.0
DLUC		

PLUS Group B

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

Select zero (0), one (1), two (2) courses from:		
BUSA 7	Principles of Accounting - Financial	5.0
BUSA 11	Fundamentals of Accounting	3.0
BUSA 72	Bookkeeping - Accounting	5.0
BUSL 18	Business Law	3.
BUSL 18H	Business Law — Honors	3.0
BUSM 20	Principles of Business	3.0
BUMS 60	Human Relations in Business	3.0
BUSM 66	Small Business Management	3.
BUSO 5	Business English	3.

	Total Units 31.5 - 4	47.5
PSYC 1AH	$\underline{\textit{or}}$ Introduction to Psychology - Honors	3.0
PSYC 1A	Introduction to Psychology	3.0
BUSS 36	Principles of Marketing	3.0
BUSS 35	Professional Selling	3.0
BUSO 26	Oral Communications for Business	3.0
BUSO 25	Business Communications	3.0

Registered Veterinary Technology Natural Sciences Division

Degree S0105

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive agricultural sciences program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they plan to attend and also the semester and year in which courses are offered. The following programs list all courses needed to satisfy major requirements. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan. Students must file an educational plan with the Director of the Registered Veterinary Technology Program during the first year of study. These programs are intended to prepare students for employment following graduation. Students desiring a bachelor's degree (transfer program) should consult with the department chairperson, counselor or advisor to discuss transferability of courses. This degree is designed to prepare students for careers as Registered Veterinary Technicians who will work under the supervision of licensed private organizations including veterinary hospitals, research vivariums, animal shelters, and other animal care agencies. Students who satisfactorily complete the requirements of this program are eligible to take the State of California Certifying Examination for Registered Veterinary Technicians. Students wishing to be admitted to the Registered

Veterinary Technology program must meet with the

Director of the Registered Veterinary Technology program at least two weeks prior to the beginning of the semester in which enrollment shall begin.

Required Courses:

Required courses 1st year: (18 Units)

Kequirea c	ourses 1st year: (18 Units)	
AGAN 1	Animal Science	3.0
AGAN 2	Animal Nutrition	3.0
AGAN 51	Animal Handling and Restraint	3.0
AGAN 94	Animal Breeding	3.0
AGHE 54	Veterinary Office Procedures	3.0
AGLI 96	Animal Sanitation and Disease Control	3.0
Required o	courses 2nd year (30 Units)	
AGHE 60	Medical Nursing and Animal Care	4.0
AGHE 61	Surgical Nursing	4.0
AGHE 62A	Clinical Pathology	4.0
AGHE 62B	Clinical Pathology	4.0
AGHE 64	Veterinary Pharmacology	3.0
AGHE 65	Veterinary Radiography	2.0
AGHE 79	Laboratory Animal Medicine and Care	3.0
AGHE 84A	Applied Animal Health Procedures	1.0

of Domestic Animals Complete four (4) units of work experience

Anatomy and Physiology

AGHE 83A Work Experience in Animal Health 1.0 - 2.0

Seminar in Registered Veterinary

1.0

1.0

4.0

Select six (6) units from: (6 Units)

AGHE 84B App. Animal Health Proc.

Technology

AGHE 85

AGHE 86

Jeieet 5176	(0) annes monne (0 onnes)	
AGLI 12	Exotic Animal Management	3.0
AGLI 14	Swine Production	3.0
AGLI 16	Horse Production and Management	4.0
AGLI 17	Sheep Production	3.0
AGLI 18	Horse Ranch Management	4.0
AGLI 19	Horse Hoof Care	2.0
AGLI 30	Beef Production	3.0
AGPE 70	Pet Shop Management	3.0
AGPE 71	Canine Management	3.0
AGPE 72	Feline Management	3.0
AGPE 73	Tropical and Coldwater	2.0
	Fish Management	
AGPE 74	Reptile Management	2.0
AGPE 76	Aviculture - Cage and Aviary Birds	3.0
	Total Units	58.0

Respiratory Therapy

Technology and Health Division Degree 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 cardio-pulmonary 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.

Required Courses:

nequirea	courses.	
RESD 50	Theory and Principles	2.0
	of Respiratory Therapy	
RESD 51A	Respiratory Therapy Science	4.0
RESD 51B	Respiratory Therapy Science	4.0
RESD 52	Pulmonary Anatomy and Physiology	3.0
RESD 53	Cardiopulmonary Pathophysiology	3.0
RESD 55	Adult Respiratory Intensive Care	3.0
RESD 56A	Techniques of Respiratory Therapy	2.5
RESD 56B	Techniques of Respiratory Therapy	6.0
RESD 56C	Techniques of Respiratory Therapy	2.5
RESD 56D	Techniques of Respiratory Therapy	6.0
RESD 57A	Special Procedures for Respiratory Care	1.5
RESD 57B	Special Procedures for Respiratory Care	1.5
RESD 58	Neonatal Intensive Care	3.0
RESD 59	Respiratory Therapeutic Modalities	3.0
RESD 60	Comprehensive Pulmonary Assessmer	t 2.0
RESD 61	Current Issues in Respiratory Care	3.0
	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) Applicants must be at least 18 years of age upon entrance into the program and must be a high school graduate or equivalent. Please provide copy of diploma as proof of high school completion.
- 2) File a college application and be accepted as a student at Mt. San Antonio College.
- Applicant must take the College placement exams before taking any of the prerequisite or respiratory therapy courses.

NOTE: Testing is administered by the Assessment Center located in the Student Services Center, Building 9B. You may contact them at (909) 594-5611, ext. 4265, to set up an appointment. If you have taken English and math at another college, please provide college transcripts. For students who possess a college degree, the college placement examination is not required. However, it will be necessary for the applicant to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to the Respiratory Therapy Program Office and the other to the Admission 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

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.

Respiratory Therapy Program

1100 North Grand Avenue

Foreign Transcripts:

All coursework taken outside of the United States must be analyzed by a designated agency for foreign transcript evaluation. No foreign curse 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 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 Requirements:

RESD 50 pre-requisites ANAT 10A/B, CHEM 10, MATH 51 and MEDI 90 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 requires 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 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
- Posses 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 devises)
- Distance vision: ability to see clearly 20 feet or more

- Depth perception: ability to judge distance and space relationship
- Near vision: ability to se 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 burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psycho logical 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 curses 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 for the degree.

To remain in the program, students must maintain a "C" or better grad 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 Humanities and Social Sciences Division Degree 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 Degree in Sign Language/Interpreting.

Required Courses:

Kequirea	Courses:	
SIGN 105	American Sign Language 5	4.0
SIGN 108	Fingerspelling	2.0
SIGN 201	Deaf Perspectives	3.0
SIGN 202	American Deaf Culture	3.0
SIGN 210	American Sign Language Structure	3.0
SIGN 220	Translation: American Sign	3.0
	Language/English	
SIGN 223	Principles of Interpreting	3.0
SIGN 225	Ethical Decision Making	2.0
	for Interpreters	
SIGN 227	Cognitive Processing for Interpreters	4.0
SIGN 231	Interpreting	4.0
SIGN 232	Advanced Interpreting	4.0
SIGN 239	Practicum	1.0
PLUS		
Select thr	ee (3) courses from:	
SIGN 240	Vocabulary Building for Interpreters	2.0

Small Business Management

Video Interpreting

Total Units

Interpreting with Classifiers

Linked Service Learning

Business Division Degree S0508

SIGN 250

SIGN 260

SL₂

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.

Required Courses:

nequirea	courses.	
BUSA 7	Principles of Accounting - Financial	5.0
BUSM 10	Principles of Continuous Quality	3.0
	Improvement	
BUSM 20	Principles of Business	3.0
BUSM 60	Human Relations in Business	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSM 62	Human Resource Management	3.0

BUSM 66	Small Business Management	3.0
BUSS 36	Principles of Marketing	3.0
CISB 15	Microcomputer Applications	4.0
	Total Units	30.0
Recomme	ended Electives:	
BUSM 81	Work Experience in Business	1.0
BUSM 85	Special Issues in Business	2.0
BUSS 85	Special Issues in Marketing	2.0
The Small	Business Management faculty rec	ommends
that stude	nts complement their studies witl	n selected
elective co	urses chosen from the list above.	Students
should me	et with a professor of Small Busin	ess
Manageme	ent to help them determine which	n electives
would best	t suit their career plans.	

Television Production

Arts Division Degree S0602

1.5

1.0

40.0 - 41.0

Students will gain experience in film-style production, remote and studio production. This course of study qualifies the student for an 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.

Required Courses:

R-TV 01	Introduction to Broadcasting	3.0
R-TV 14	Media Aesthetics	3.0
R-TV 19A	Beginning Video Production	3.0
R-TV 19B	Advanced Video Production	3.0
R-TV 22	Editing for Film and Television	3.0
R-TV 100	Work Experience in Film and TV 1.0	- 3.0
PLUS Sele	ct 12 units from:	
R-TV 05	Radio-TV Newswriting	3.0
R-TV 18	Writing for Television and Film	3.0
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 28.0 -	30.0
Recomme	nded Electives:	
ANIM 115	Storyboarding	3.0
R-TV 26	Current Issues in Entertainment Law	3.0
THTR 17	Acting for the Camera	3.0

Welding – Semiautomatic Arc Welding

Technology and Health Division Degree 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.

WELD 40	Introduction to Welding	2.0
WELD 50	Oxyacetylene Welding	2.0
WELD 51	Basic Electric Arc Welding	2.0
WELD 53A	Welding Metallurgy	3.0
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 and Welding	3.0
	Total Units 2	21.0
Recomme	nded Electives:	
Recomme BUSM 61	nded Electives: Business Organization	3.0
		3.0
	Business Organization	3.0
BUSM 61	Business Organization and Management	
BUSM 61 EDT 11	Business Organization and Management Technical Engineering Drawing I	3.0
BUSM 61 EDT 11 WELD 30	Business Organization and Management Technical Engineering Drawing I Metal Sculpture	3.0
BUSM 61 EDT 11 WELD 30	Business Organization and Management Technical Engineering Drawing I Metal Sculpture Print Reading and Computations	3.0

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Business Degree A8981

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

Required Courses:

nequirea	Courses	
BUSC 1A	Principles of Economics	3.0
	- Macroeconomics	
	<u>or</u>	
BUSC 1AH	Principles of Economics	3.0
	- Macroeconomics - Honors	
BUSC 1B	Principles of Economics	3.0
	- Microeconomics	
	<u>or</u>	
BUSC 1BH	Principles of Economics	3.0
	- Microeconomics - Honors	
CISB 15	Microcomputer Applications	4.0
	<u>or</u>	
CISB 11	Computer Information Systems	3.5
Dluc coloc	t a minimum of three courses from	1 tha

Plus select a minimum of three courses from the following which should be selected in consultation with a counselor or educational advisor.

BUSA 7	Principles of Accounting - Financial	5.0	
BUSA 8	Principles of Accounting - Managerial	5.0	
BUSC 17	Applied Business Statistics	3.0	
BUSL 18	Business Law	3.0	
	<u>or</u>		
BUSL 18H	Business Law - Honors	3.0	
BUSM 20	Principles of Business	3.0	
BUSO 25	Business Communications	3.0	
	Total Units 18.5 - 3	23.0	
	for Area of Emphasis		
December ded Fleethers			

Recommended Electives:

SPCH 7 Intercultural Communication 3.0

ASSOCIATE IN ARTS DEGREE (AA) WITH EMPHASES

Liberal Arts and Sciences with area of emphasis in one of the following: Natural Sciences.......93

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.

To qualify for an Associate in Arts degree, students must complete all the graduation requirements as listed on page 61 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 99 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 103 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.

Associate in Arts degree in Liberal Arts and Sciences

Kinesiology and Wellness.......91

Emphasis in Communication Degree A8982

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

Required Courses:

Core/Required Courses (7 units)

-1			
	SPCH 1A	Public Speaking	4.0
		<u>or</u>	
	SPCH 1AH	Public Speaking - Honors	4.0
		<u>or</u>	
	SPCH 2	Fundamentals of Communication	4.0
	SPCH 26	Interpersonal Communication	3.0
		<u>or</u>	
	SPCH 26H	Interpersonal Communication - Honors	3.0

Select 11	Units from the following	
SPCH 1A	Public Speaking	4.0
	<u>or</u>	
SPCH 1AH	Public Speaking - Honors	4.0
SPCH 1B	Intermediate Public Speaking	3.0
SPCH 2	Fundamentals of Communication	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	3.0
	<u>or</u>	
SPCH 7H	Intercultural Communication Honors	3.0
SPCH 8	Professional and Organizational	4.0
	Speaking	
	<u>or</u>	
SPCH 8H	Professional and Organizational	4.0
	Speaking - Honors	
SPCH 15	Forensics: Fundamentals of Contest	2.0
	Speech and Debate	
SPCH 16	Forensics: Individual Event Team	3.0
SPCH 17	Forensics: Debate Team	3.0
SPCH 18	Forensics: Reader's Theater Team	3.0
SPCH 20	Argumentation and Debate	3.0
	<u>or</u>	
SPCH 20H	Argumentation and Debate - Honors	
SPCH 30	Gateway to Communication Studies	3.0
SPCH 99	Special Projects in Speech	2.0
JOUR 100	Mass Media and Society	3.0
JOUR 101	Beginning News Writing	3.0
JOUR 102	Intermediate Newswriting	3.0
JOUR 111	Broadcast News Writing	3.0
PHOT 10	Basic Digital and Film Photography	3.0
R-TV 01	Introduction to Broadcasting	3.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 19A	Beginning Video Production	3.0
R-TV 99	Radio/TV Special Projects	2.0
	Totals 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. Doguirod Courses

Required Co	ourses	
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	Histoory of Western Art:	3.0
	Prehistoric Through Gothic	
	<u>or</u>	
AHIS 4H	History of Western Art:	3.0
	Prehistoric Through Gothic - Honors	
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 - Hon	ors

Required Electives (0 Units) Select two studio electives

Jeiect two	Studio electives	
From the f	following group select (6 units)	
ANIM 101A	Drawing - Gesture and Figure	3.0
ARTB 14	Basic Studio Arts	3.0
ARTC 100	Graphic Design I	3.0
ARTC 165	Illustration	3.0
ARTD 15B	Drawing: Intermediate	3.0
ARTD 16	Drawing: Perspective	3.0
ARTD 17B	Drawing: Life	3.0
ARTD 27	Painting: Watercolor	3.0
ARTD 43A	Introduction to Printmaking	3.0
ARTD 44A	Printmaking: Introduction	3.0
	to Lithography I	
ARTD 45A	Printmaking: Introduction	3.0
	to Screenprinting	

ARTG 20	Art, Artists and Society	3.0
ARTG 21A	Introduction to Exhibition Production	3.0
ARTS 30A	Ceramics: Beginning I	3.0
ARTS 33	Ceramics: Hand Construction	3.0
ARTS 40A	Sculpture: Beginning	3.0
ARTS 41A	Sculpture: Life	3.0
PHOT 10	Basic Digital and Film Photography	3.0
	Total Units	30.0
	for Area of Emphasis	

Associate in Arts degree in Liberal **Arts and Sciences**

Emphasis in Humanities Degree A8984

An emphasis in Humanities provides the student with an understanding of the interrelationship between art, religion, history, music, literature and the dramatic arts, and philosophical and political thought. This emphasis also strengthens the understanding of other cultures through the study of a foreign language. Students must select a total of 18 to 20 units choosing courses form at leas 5 of the following 7 categories:

Required Courses:

Music

AHIS 4H

MUS 11A	Music Literature Survey	3.0
MUS 11B	Music Literature Survey	3.0
MUS 12	History of Jazz	3.0
MUS 13	Introduction to Music Appreciation	3.0
	<u>or</u>	
MUS 13H	Introduction to Music Appreciation	3.0
	- Honors	
MUS 14A	World Music	3.0
MUS 14B	American Folk Music	3.0
MUS 15	Rock Music History and Appreciation	3.0
Art Histor	у	
AHIS 3	History of Women and Gender in Art	3.0
	<u>or</u>	
AHIS 3H	History of Women and Gender	3.0
	in Art - Honors	
AHIS 4	History of Western Art:	3.0
	Prehistoric Through Gothic	
	or	

History of Western Art: Prehistoric

Through Gothic - Honors

AHIS 5	History of Western Art:	3.0	PH
	Renaissance Through Modern		
	<u>or</u>		PH
AHIS 5H	History of Western Art	3.0	His
	- Renaissance Through Modern - Hono	rs	HIS
AHIS 6	History of Modern Art	3.0	
	<u>or</u>		
AHIS 6H	History of Modern Art - Honors	3.0	HIS
AHIS 9	History of Asian Art	3.0	
AHIS 10	A History of Greek and Roman Art	3.0	HIS
	and Architecture		
AHIS 11	History of African, Oceanic,	3.0	
	and Native American Art		HIS
AHIS 12	History of Precolumbian Art	3.0	
A1116 4 211	<u>or</u>		HIS
AHIS 12H	· · · · · · · · · · · · · · · · · · ·	3.0	HIS
ARCH 31	World Architecture I	3.0	HIS
ADCII 22	<u>or</u>	2.0	HIS
ARCH 32	World Architecture II	3.0	HIS
PHIL 12	y and Political Sciences	2.0	HIS
PHIL 12	Ethics	3.0	Fo:
PHIL 12H	<u>or</u> Ethics - Honors	3.0	CH
PHIL 12H	History of Western Philosophy	3.0	СН
PHIL ZUA		3.0	FR
PHIL 20AH	<u>or</u> History of Western Philosophy - Honors	3.0	FR
PHIL 20AII	History of Western Philosophy	3.0	GE
I IIIL ZUD	or	3.0	GE
PHIL 20BH	History of Western Philosophy - Honors	3.0	ITA
POLI 5	Political Theory I - Ancient to Modern		ITA
POLI 9	Introduction to International Relations		JAF
	d Dramatic Arts Literature	3.0	JAF
FRCH 60	French Culture/Cinema	3.0	SPA
ITAL 60	Italian Culture Through Cinema	3.0	SPA
LIT 10	Survey of Shakespeare	3.0	SPA
LIT 11A	World Literature to 1650	3.0	SP/
LIT 11B	World Literature from 1650	3.0	
LIT 15	Introduction to Cinema	3.0	SIG
SPCH 4	Performance of Literature	3.0	SIG
THTR 10	History of Theater Arts	3.0	
	nd Literature		
LIT 36	Introduction to Mythology	3.0	
LIT 46	Bible/Lit: Old Testament	3.0	
LIT 47	Bible/Lit: New Testament	3.0	

PHIL 15	Major World Religions	3.0
PHIL 15H	<u>or</u> Major World Religions - Honors	3.0
History	Major World Religions - Horiors	3.0
HIST 3	World History: Prehistoric	3.0
11131 3	to Early Modern	3.0
	or	
HIST 3H	World History: Prehistoric to Early	3.0
	Modern - Honors	
HIST 4	World History: Early Modern	3.0
	to the Present	
	<u>or</u>	
HIST 4H	World History: Early Modern	3.0
	to the Present - Honors	
HIST 10	History of Asia	3.0
HIST 11	History of Asia	3.0
HIST 16	The Wild West - A History, 1800-1890	3.0
HIST 19	History of Mexico	3.0
HIST 35	History of Africa	3.0
HIST 44	History of Native Americans	3.0
Foreign La		
ARAB 2	Continuing Elementary Arabic	4.0
CHIN 2	Continuing Elementary Chinese	4.0
CHIN 3	Intermediate Chinese	4.0
FRCH 2	Continuing Elementary French	4.0
	,	
FRCH 3	Intermediate French	4.0
GERM 2	Intermediate French Continuing Elementary German	4.0 4.0
GERM 2 GERM 3	Intermediate French Continuing Elementary German Intermediate German	4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian	4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian	4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese	4.0 4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese	4.0 4.0 4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 3	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish Intermediate Spanish	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 3 SPAN 11	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish Intermediate Spanish Spanish for the Spanish Speaking	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 3	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish Intermediate Spanish Spanish for the Spanish Speaking Continuing Spanish	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 2 SPAN 3 SPAN 11 SPAN 12	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish Intermediate Spanish Spanish for the Spanish Speaking Continuing Spanish for the Spanish Speaking	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0
GERM 2 GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 3 SPAN 11	Intermediate French Continuing Elementary German Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish Intermediate Spanish Spanish for the Spanish Speaking Continuing Spanish	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Total Units

for Area of Emphasis

18.0 - 20.0

Major World Religions

3.0

Associate in Arts degree in Liberal **Arts and Sciences**

Emphasis in Information Technology Associate in Arts Degree A8985

An Emphasis in Information Technology provides the student with an understanding of software development, database technologies, operating systems, networks, and network security.

Required Courses:

kequirea courses:			
Information Tehcnology Basics (3.5-4 Units)			
CISB 11	Computer Information Systems	3.5	
CISB 15	Microcomputer Applications	4.0	
Software	Development (4 Units)		
CISP 11	Programming in Visual Basic	4.0	
CISP 21	Programming in Java	4.0	
CISP 31	Programming in C++	4.0	
CISP 41	Programming in C#	4.0	
CISW 21	Secure Web Programming	4.0	
	with ASP.NET		
CISW 24	Secure Server Side Web Programming	4.0	
Database	· Technology (4 Units)		
CISD 11	Database Management	4.0	
	- Microsoft Access		
CISD 21	Database Management	4.0	
	- Microsoft SQL Server		
CISD 31	Database Management - Oracle	4.0	
Operatin	g Systems and Networking (4 Units)	
CISN 11	Telecommunications Networking	4.0	
CISN 21	Windows Operating System	4.0	
CISN 31	Linux Operating System	4.0	
Security ((4 Units)		
CISS 13	Principles of Information	4.0	
	Systems Security		
CISS 15	Operating Systems Security	4.0	
CISS 21	Network Vulnerabilities	4.0	

Pacammandad Flactives

necommended Electives.				
BUSA 7	Principles of Accounting - Financial	5.0		
BUSM 20	Principles of Business	3.0		
BUSM 60	Human Relations in Business	3.0		
BUSO 25	Business Communications	3.0		

19.5-20

and Countermeasures

for Area of Emphasis

Total Units

BUSS 36	Principles of Marketing	3.0
CISB 31	Microsoft Word	3.0
CISB 51	Microsoft PowerPoint	3.0
CISM 11	Systems Analysis and Design	3.5
R-TV 17	Internet Radio and Podcasting	3.0
SPCH 26	Interpersonal Communication	3.0
	<u>or</u>	
SPCH 26H	Interpersonal Communication - Honors	s 3.0

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Kinesiology and Wellness Associate in Arts Degree A8986

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

Required Courses:

Kinesiology, Movement, and Health Promotion (A minimum of 6 units selected from the following):

3,		
KIN 3	First Aid and CPR	3.0
	<u>or</u>	
KIN 5	Advanced First Aid/CPR/	3.0
	Emergency Response	
KIN 13	Sports Officiating	3.0
KIN 17	Introduction to Physical Education	3.0
KIN 19	Introduction to Care/Prevention	3.0
	of Activity/Sports -Related Injuries	
KIN 34	Fitness for Living	3.0
KIN 39	Techniques of Fitness Testing	2.0
KIN 44	Theory of Coaching	3.0
DN-T 18	Introduction to Dance	3.0
DN-T 20	History and Appreciation of Dance	3.0
Scientific	and Nutrition Background	
(A minimu	um of 3 units selected from the fo	llow-
ing):		
ANAT 10A	Introductory Human Anatomy	4.0
	<u>or</u>	
ANAT 35	Human Anatomy	5.0

ANAT 10B Introductory Human Physiology

	<u>or</u>		
ANAT 36	Human Physiology	5.0	
CHEM 10	Chemistry for Allied Health Majors	4.0	
	<u>or</u>		
CHEM 40	Introduction to General Chemistry	4.0	
MICR 1	Principles of Microbiology	5.0	
	<u>or</u>		
MICR 22	Microbiology	4.0	
PHYS 1	Physics	4.0	
	<u>or</u>		
PHYS 2AG	General Physics	4.0	
PSYC 1B	Biological Psychology	3.0	
BIOL 1	General Biology	4.0	
BIOL 5	Contemporary Health Issues	3.0	
	<u>or</u>		
BIOL 13	Human Repro Devel Aging	3.0	
NF 10	Nutrition for Personal Health	3.0	
	and Wellness		
	<u>or</u>		
NF 25	Essentials of Nutrition	3.0	
	<u>or</u>		
NF 25H	Essentials of Nutrition - Honors	3.0	
Behaviora	al Development and Diversity		
(A minimu	m of 3 units selected from the follow	ing):	
PSYC 1A	Introduction to Psychology	3.0	
	<u>or</u>		
PSYC 1AH	Introduction to Psychology - Honors	3.0	
PSYC 3	Research Methods/Psych	4.0	
PSYC 17	Introduction to Human Services	3.0	
PSYC 26	Psychology of Sexuality	3.0	
PSYC 33	Psychology for Effective Living	3.0	
SOC 1	Sociology	3.0	
	<u>or</u>		
SOC 1H	Sociology - Honors	3.0	

SOC 2 Sociology SOC 2H Sociology - Honors

SOC 20	Sociology of Ethnic Relations	3.0
	<u>or</u>	
SOC 20H	Sociology of Ethnic Relations - Honors	3.0
COUN 2	College Success Strategies	3.0

COUN 5 Career/Life Planning **Total Units** for Area of Emphasis

4.0

Activity Course

(A minimum of two courses selected from the following):

Students pursuing an AA degree with an emphasis in Kinesiology and Wellness are required to take a minimum of two activity courses in at least two areas of kinesiology or dance: KINA (Aguatics) KINF (Fitness) KINI (Individual Sports) KINS (Team Sports) KINL (Adaptive), KINX (Athletics), DNCE (Dance) plus additional units taken from any courses in clusters 1-3 above for a total of at least 18 units.

Associate in Arts degree in Liberal **Arts and Sciences**

Emphasis in Language Arts Degree A8987

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

Required Courses:

3.0

3.0

3.0

18.0

SPAN 5

SPAN 6

Language Acquisition (minimum of 9 Units selected from the following):

ı	(IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	i oi 3 oilles selecteu froiti the followii	ıy <i>ı</i> .
	CHLD 51	Early Literacy in Child Development	3.0
	ENGL 1C	Critical Thinking and Writing	4.0
		<u>or</u>	
	ENGL 1CH	Critical Thinking and Writing - Honors	4.0
	ENGL 81	Language Acquisition	3.0
	PHIL 9	Critical Thinking and Logical Writing	3.0
	READ 100	Analysis and Critical Reading	3.0
	SIGN 210	American Sign Language Structure	3.0
	STDY 100	Student Achievement	3.0
		and Fundamentals of Learning	

Language Arts and Diversity (minimum 6 units selected from the following).

/	• 4 > • • • • • • • • • • • • • • • •	•••••
SPAN 1	Elementary Spanish	4.0
SPAN 2	Continuing Elementary Spanish	4.0
SPAN 3	Intermediate Spanish	4.0
SPAN 4	Continuing Intermediate Spanish	4.0

Advanced Spanish

4.0

SPAN 11	Spanish for the Spanish Speaking	4.0	SIGN 105	American Sign Language 5	4.0	SPCH 4	Performance of Literature	3.0
SPAN 12	Continuing Spanish for the Spanish	4.0	LIT 3	Multicultural American Literature	3.0		Total Units	18.0
	Speaking		LIT 11A	World Literature to 1650	3.0		for Area of Emphasis	
SPAN 25	Spanish Literature	3.0		<u>or</u>			<u> </u>	
SPAN 53	Conversational Spanish	3.0	LIT 11B	World Literature from 1650	3.0	Associa	ite in Arts Degree in Lib	eral
SPAN 54	Continuing Conversational Spanish	3.0	LIT 20	African American Literature	3.0		d Sciences	
FRCH 1	Elementary French	4.0	LIT 25	Contemporary Mexican American	3.0		in Mathematics	
FRCH 2	Continuing Elementary French	4.0		Literature		Degree A8		
FRCH 3	Intermediate French	4.0	CHLD 50	Multicultural Education:	3.0		is in Mathematics provides the student	with
FRCH 4	Continuing Intermediate French	4.0		Anti-Bias Perspective			nding of college level mathematics. In	
FRCH 5	Advanced French	4.0	JOUR 100	Mass Media and Society	3.0		oundational calculus courses, students	
FRCH 6	Continuing Advanced French	4.0	JOUR 107	Race, Culture, Sex,	3.0		computer science programming option	
FRCH 53	Intermediate Conversational French	3.0		and Mass Media Images				113.
FRCH 54	Continuing Intermediate	3.0	R-TV 01	Introduction to Broadcasting	3.0	Required (
	Conversational French		R-TV 02A	On-Air Personality Development	3.0		18 units selected from the follow	wing
ITAL 1	Elementary Italian	4.0		- Spanish Market			ost two CSCI courses)	4.0
ITAL 2	Continuing Elementary Italian	4.0	Personal (Options			College Algebra	4.0
ITAL 3	Intermediate Italian	4.0	(minimun	n 3 units selected from the followi	ng):		Calculus for Business	4.0
ITAL 4	Continuing Intermediate Italian	4.0	BUSO 25	Business Communications	3.0		Trigonometry	3.0
ITAL 5	Advanced Italian	4.0	CHLD 61	Language Arts and Art Media	3.0		Precalculus Mathematics	4.0
ITAL 6	Continuing Advanced Italian	4.0		for Young Children			Calculus and Analytic Geometry	4.0
ITAL 52	Conversational Italian	3.0	ENGL 1B	English - Introduction to Literary Types	3.0		Calculus and Analytic Geometry	5.0
ITAL 53	Continuing Conversational Italian	3.0		<u>or</u>			A Transition to Advanced Mathemati	1
ITAL 54	Advanced Conversational Italian	3.0	ENGL 1BH	English - Introduction	3.0		Calculus and Analytic Geometry	4.0
GERM 1	Elementary German	4.0		to Literary Types - Honors			Lin Algebra & Diff Equtns	5.0
GERM 2	Continuing Elementary German	4.0	ENGL 8A	Creative Writing - Fiction	3.0		Fundamentals of Computer Science	3.5
GERM 3	Intermediate German	4.0	ENGL 8B	Creative Writing - Poetry	3.0		C++ Language & Objects	4.0
CHIN 1	Elementary Chinese	4.0	ENGL 8C	Creative Writing - Novel	3.0	CSCI 145	Java Language and Object Oriented	4.0
CHIN 2	Continuing Elementary Chinese	4.0	ENGL 8D	Creative Writing - Poetry Collection	3.0		Programming	10.0
CHIN 3	Intermediate Chinese	4.0	ENGL 8E	Creative Writing - Memoir	3.0	1	Total Units	18.0
CHIN 4	Continuing Intermediate Chinese	4.0	ENGL 8F	Creative Writing - Nonfiction	3.0		for Area of Emphasis	
JAPN 1	Elementary Japanese	4.0	ENGL 9	Writing the Personal Journal	3.0		nded Electives:	2.0
JAPN 2	Continuing Elementary Japanese	4.0	JOUR 101	Beginning News Writing	3.0		Survey of College Mathematics	3.0
JAPN 3	Intermediate Japanese	4.0		<u>or</u>		MAIHIIU	Elementary Statistics	3.0
JAPN 4	Continuing Intermediate Japanese	4.0	JOUR 102	Intermediate Newswriting	3.0	MATIL 11011	<u>Or</u>	2.0
JAPN 5	Advanced Japanese	4.0	JOUR 108	Writing for Public Relations	3.0		Elementary Statistics - Honors	3.0
LATN 1	Elementary Latin	4.0	LIT 1	Early American Literature	3.0	MATH 115	•	5.0
LATN 2	Continuing Elementary Latin	4.0		<u>or</u>			Finite Mathematics	3.0
ARAB 1	Elementary Arabic	4.0	LIT 2	Modern American Literature	3.0	CHEM 50	General Chemistry I	5.0
ARAB 2	Continuing Elementary Arabic	4.0	LIT 6A	Survey of English Literature	3.0	CUEM FOU	<u>or</u>	- 0
SIGN 101	American Sign Language 1	4.0		<u>or</u>			General Chemistry I - Honors	5.0
SIGN 102	American Sign Language 2	4.0	LIT 6B	Survey of English Literature	3.0	CHEM 51	General Chemistry II	5.0
SIGN 103	American Sign Language 3	4.0	LIT 40	Children's Literature	3.0	PHYS 4A	Engineering Physics	5.0
SIGN 104	American Sign Language 4	4.0	R-TV 05	Radio-TV Newswriting	3.0	PHYS 4B	Engineering Physics	5.0
						PHYS 4C	Engineering Physics	5.0

Associate in Arts degree in Liberal **Arts and Sciences**

Emphasis in Music Degree A8990

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

Doguinad Courses

Courses:				
Music Theory	3.0			
Harmony	3.0			
Musicianship - Ear Training	1.0			
and Sight Singing				
Musicianship - Ear Training	1.0			
and Sight Singing				
Music Literature Survey	3.0			
Individual Instruction	0.5			
Conducting	1.5			
nits selected from the following				
Elementary Piano	1.0			
Intermediate Class Piano	1.5			
Advanced Class Piano	1.5			
Performance Ensemble (3 units selected from				
	Music Theory Harmony Musicianship - Ear Training and Sight Singing Musicianship - Ear Training and Sight Singing Music Literature Survey Individual Instruction Conducting nits selected from the following Elementary Piano Intermediate Class Piano Advanced Class Piano			

the following courses):

tile iollow	ilig courses).	
MUS 27	Chamber Winds	1.5
MUS 30	Collegiate Chorale	1.0
MUS 31	Concert Choir	2.0
MUS 34	Women's Vocal Ensemble	2.0
MUS 36	Concert and Community Band	l 1.5
MUS 38	Ensemble (0.50 Units)	
MUS 39	Laboratory Band	2.0
MUS 44	Vocal Jazz Ensemble	3.0
MUS 45	Chamber Singers	3.0
MUS 46	Mt. SAC Singers	1.5
MUS 47	Jazz Ensemble	2.0
MUS 48	Men's Vocal Ensemble	2.0
MUS 49	Wind Ensemble	2.0
	Total Units	18.0 - 19.0
	for Area of Emphasis	

Strongly Recommended Electives			
MUS 11B	Music Literature Survey	3.0	
MUS 16	Individual Instruction	0.5	
MUS 9	Introduction to Music Technology	3.0	

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Natural Sciences Degree A8988

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

Required Courses:

Select a minimum of 18 units from the following:

Select a minimum of 16 units from the following:					
ASTR 5	Introduction to Astronomy	3.0			
	<u>or</u>				
ASTR 5H	Introduction to Astronomy Honors	3.0			
ASTR 5L	Astronomical Observing Laboratory	1.0			
	<u>or</u>				
ASTR 7	Geology of the Solar System	3.0			
ASTR 5L	Astronomical Observing Laboratory	1.0			
	<u>or</u>				
ASTR 8	Introduction to Stars, Galaxies,	3.0			
	and the Universe				
ASTR 5L	Astronomical Observing Laboratory	1.0			
BIOL 2	Plant and Animal Biology	4.0			
BIOL 3	Ecology and Field Biology	4.0			
BIOL 4	Biology for Majors	4.0			
	<u>or</u>				
BIOL 4H	Biology for Majors - Honors	4.0			
BIOL 8	Cell and Molecular Biology	4.0			
BIOL 20	Marine Biology	3.0			
	<u>and</u>				
BIOL 21	Marine Biology Laboratory	1.0			
BIOL 34	Fundamentals of Genetics	3.0			
BTNY 3	Plant Structures, Functions,	5.0			
	and Diversity				
METO 3	Weather and the Atmospheric	3.0			
	Environment				

		and	
	METO 3L	Weather and Atmospheric	1.0
		Environment Laboratory	
	MICR 1	Principles of Microbiology	5.0
_		or	
	MICR 22	Microbiology	4.0
	CHEM 50	General Chemistry I	5.0
		<u>or</u>	
	CHEM 50H	General Chemistry I - Honors	5.0
	CHEM 51	General Chemistry II	5.0
	CHEM 60	Quantitative Chemical Analysis	5.0
	CHEM 80	Organic Chemistry	5.0
	CHEM 81	Organic Chemistry	5.0
	GEOG 1	Elements of Physical Geography	3.0
		<u>or</u>	
	GEOG 1H	Elements of Physical Geography	3.0
		- Honors	
	GEOG 1L	Physical Geography Laboratory	1.0
:	GEOL 1	Physical Geology	4.0
	GEOL 2	Historical Geology	4.0
	GEOL 8	Earth Science	3.0
	CEOL OIL	<u>or</u> Farth Science - Honors	2.0
	GEOL 8H	2411119111111	3.0
	GEOL 8L	<u>and</u> Earth Science Laboratory	1.0
	OCEA 10	Introduction to Oceanography	3.0
	OCLA 10	or	3.0
	OCEA 10H	Introduction to Oceanography - Honors	3.0
1	OCEN TOTT	and	5.0
	OCEA 10L	Introduction to Oceanography	1.0
1		Laboratory	
1	PHSC 7	Physical Science	3.0
		<u>and</u>	
1	PHSC 7L	Physical Science Laboratory	1.0
	PHYS 2AG	General Physics	4.0
	PHYS 2BG	General Physics	4.0
	PHYS 4A	Engineering Physics	5.0
'	PHYS 4B	Engineering Physics	5.0
	PHYS 4C	Engineering Physics	5.0
	ENGR 40	Statics	3.0
	ENGR 41	Dynamics	3.0
			18.0
		for Area of Emphasis	

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Social & Behavioral Sciences Degree A8991

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

Required Courses:

Foundation (minimum of 6-7 units from the following courses):

following courses):				
ANTH 1	Biological Anthropology	3.0		
	<u>or</u>			
ANTH 1H	Biological Anthro - Honors	3.0		
BUSC 1A	Principles of Economics	3.0		
	- Macroeconomics			
	or			
BUSC 1AH	Principles of Economics	3.0		
	- Macroeconomics - Honors			
BUSC 1B	Principles of Economics	3.0		
	- Microeconomics			
	or			
BUSC 1BH	Principles of Economics	3.0		
	- Microeconomics - Honors			
HIST 1	History of the United States	3.0		
	<u>or</u>			
HIST 7	History of the United States	3.0		
	<u>or</u>			
HIST 7H	History of the United States - Honors	3.0		
POLI 1	Political Science	3.0		
	<u>or</u>			
POLI 1H	Political Science - Honors	3.0		
PSYC 1A	Introduction to Psychology	3.0		
	<u>or</u>			
PSYC 1AH	Introduction to Psychology - Honors	3.0		
SOC 1	Sociology	3.0		
	<u>or</u>			
SOC 1H	Sociology - Honors	3.0		
Plus one o	Plus one of the following:			
MATH 110	Elementary Statistics	3.0		
	<u>or</u>			
MATH 110H Elementary Statistics - Honors 3.0				

PSYC 10 Statistics for the Behavioral Sciences 4.0 Cultural & Gender Diversity (minimum of 3 units selected from the following):

		Gender Diversity (minimum of 3 u	nits
	selected f	rom the following):	
	ANTH 30	The Native American	3.0
	ANTH 5	Principles of Cultural Anthropology	3.0
		<u>or</u>	
	ANTH 22	General Cultural Anthropology	3.0
	BIOL 15	Human Sexuality	3.0
		<u>or</u>	
	BIOL 15H	Human Sexuality - Honors	3.0
	GEOG 2	Human Geography	3.0
		<u>or</u>	
	GEOG 2H	Human Geography - Honors	3.0
	GEOG 5	World Regional Geography	3.0
		<u>or</u>	
	GEOG 30	Geography of California	3.0
	65060011	<u>or</u>	
	GEOG 30H	Geography of California - Honors	3.0
	HIST 36	Women in American History	3.0
	JOUR 100	Mass Media and Society	3.0
	JOUR 107	Race, Culture, Sex,	3.0
	DOLLAS	and Mass Media Images	2.0
	POLI 25	Politics of the Mexican American	3.0
	POLI 35	African American Politics	3.0
	PSYC 25	The Psychology of Women	3.0
	PSYC 26	Psychology of Sexuality	3.0
	R-TV 01 SOC 5	Introduction to Broadcasting Introduction to Criminology	3.0 3.0
	SOC 3	Marriage and the Family	3.0
	30C 14	,	5.0
	SOC 14H	<u>or</u> Marriage and the Family - Honors	3.0
	SOC 20	Sociology of Ethnic Relations	3.0
	JUC 20	or	5.0
	SOC 20H	Sociology of Ethnic Relations - Honors	3 0
	SPCH 7	Intercultural Communication	3.0
	51 (117	or	5.0
	SPCH 7H	Intercultural Communication Honors	3.0
		ent of the Person (minimum of 3	5.0
		cted from the following):	
	BIOL 5	Contemporary Health Issues	3.0
	BIOL 13	Human Repro Devel Aging	3.0
	CHLD 1	Child, Family, School and Community	3.0
- 1			

Child Growth and Development

CHLD 10

	or			or	
CHLD 10H	Child Growth and Development - Hon	ors	HIST 35	History of Africa	3.0
3.0			HIST 40	History of the Mexican American	3.0
PSYC 14	Developmental Psychology	3.0		or	
PSYC 19	Abnormal Psychology	3.0	HIST 44	History of Native Americans	3.0
SOC 2	Sociology	3.0	POLI 9	Introduction to International Relations	3.0
	<u>or</u>			<u>or</u>	
SOC 2H	Sociology - Honors	3.0	POLI 25	Politics of the Mexican American	3.0
SOC 4	Introduction to Gerontology	3.0		<u>or</u>	
SOC 15	Child Development	3.0	POLI 35	African American Politics	3.0
Biology as	s it Relates to Behavior or Society		PSYC 17	Introduction to Human Services	3.0
(minimun	n of 3 units selected from the follo	w-		Total Units 21.0 - 2	23.0
ing):				for Area of Emphasis	
ANTH 1	Biological Anthropology	3.0	Other rec	ommended electives include:	
BIOL 6	Humans and the Environment	3.0	ANTH 3	Archaeology	3.0
BIOL 17	Neurobiology and Behavior	3.0	BUSM 60	Human Relations in Business	3.0
BIOL 34	Fundamentals of Genetics	3.0	CHLD 1	Child, Family, School and Community	3.0
PSYC 1B	Biological Psychology	3.0	CHLD 73	Infant/Toddler Care and Development	3.0
Historical	and Political Implications on Socie	ty	CHLD 85	Infants At Risk	3.0
(minimun	n of 3 units selected from the follo	w-	COUN 5	Career/Life Planning	3.0
ing):			COUN 51	Career Planning	1.0
GEOG 8	The Urban World	3.0	FCS 41	Life Management	3.0
HIST 1	History of the United States	3.0	LIBR 1	Information Resources	3.0
	<u>or</u>			and Research Methods	
HIST 7	History of the United States	3.0	LIT 3	Multicultural American Literature	3.0
	<u>or</u>		LIT 15	Introduction to Cinema	3.0
HIST 7H	History of the United States - Honors	3.0	LIT 20	African American Literature	3.0
	<u>or</u>		LIT 25	Contemporary Mexican	3.0
HIST 8	History of the United States	3.0		American Literature	
	<u>or</u>		PSYC 3	Introduction to Research Methods	4.0
HIST 8H	History of the United States - Honors	3.0		in Psychology	
HIST 10	History of Asia	3.0	PSYC 17	Introduction to Human Services	3.0
	<u>or</u>		PSYC 19	Abnormal Psychology	3.0
HIST 11	History of Asia	3.0	PSYC 33	Psychology for Effective Living	3.0
	<u>or</u>		SL 2	Linked Service Learning	1.0
HIST 16	The Wild West - A History, 1800-1890	3.0		<u>or</u>	
HIST 30	History of the African American	3.0	SPCH 26	Interpersonal Communication	3.0
	<u>or</u>			<u>or</u>	
HIST 31	History of the African American	3.0	SPCH 26H	Interpersonal Communication - Hono	rs3.0

ASSOCIATE IN ARTS FOR TRANSFER DEGREE (AA T)

Associate in Arts for Transfer Degree (AA-T):

Recent legislation requires that all California Community Colleges create associate degrees 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.

California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not quarantee admission to specific majors or campuses.

Associate in Arts in Communication Studies for Transfer

Humanities and Social Sciences Division Associate in Arts Degree Degree A0325

Communication Studies is a broad-based discipline with foundational coursework in oral communication theory and skills development, augmented with course options that add dimension and depth to the student's understanding of the discipline — such as interpersonal, group, organizational and intercultural communication, argumentation, journalism, forensics, and communication research methods. The degree program requires students to critically analyze information and arguments, select and research an appropriate topic and thesis, and logically organize the supporting material into a well-crafted presentation. Students will employ appropriate verbal and nonverbal delivery skills and visual aids to present a message to an audience in a conversational and confident manner; and formulate communication solutions to problems in a range of contexts. Students will create messages appropriate for diverse audiences and listeners and develop an improved understanding of themselves as communicators. To earn an Associate in Arts in Communication Studies

for Transfer a student must complete 60 semester

units that are eligible for transfer to the CSU that con-

sist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

SPCH 7H

Core Courses: (4 Units)

Core Courses: (4 Units)				
SPCH 1A	Public Speaking	4.0		
	<u>or</u>			
SPCH 1AH	Public Speaking - Honors	4.0		
List A: 6 un	its from any 2 courses from the following	ng:		
SPCH 6	Group Communication	3.0		
SPCH 20	Argumentation and Debate	3.0		
	<u>or</u>			
SPCH 20H	Argumentation and Debate - Honors	3.0		
SPCH 26	Interpersonal Communication	3.0		
	<u>or</u>			
SPCH 26H	Interpersonal Communication - Honor	rs3.0		
List B: 6 -	7 units from any 2 courses from th	e		
following	or any 1 course not used in List A			
SPCH 2	Fundamentals of Communication	4.0		
SPCH 4	Performance of Literature	3.0		
SPCH 7	Intercultural Communication	3.0		
	<u>or</u>			

Intercultural Communication Honors 3.0

Limit of three (3) units from:				
JOUR 100	Mass Media and Society	3.0		
SPCH 15	Forensics: Fundamentals of Contest	2.0		
	Speech and Debate			
	<u>or</u>			
SPCH 16	Forensics: Individual Event Team	3.0		
	<u>or</u>			
SPCH 17	Forensics: Debate Team	3.0		
	<u>or</u>			
SPCH 18	Forensics: Reader's Theater Team	3.0		
List C: 3 -	4 units. At least 1 course from the	fol-		
lowing or	any 1 course not used in List A or	List B		
ENGL 1C	Critical Thinking and Writing	4.0		
	<u>or</u>			
ENGL 1CH	Critical Thinking and Writing - Honor	s 4.0		
JOUR 101	Beginning News Writing	3.0		
SPCH 3	Voice and Diction	3.0		
SPCH 8 Professional and Organizational		4.0		
	Speaking			
	<u>or</u>			
SPCH 8H	Professional and Organizational	4.0		
	Speaking - Honors			
SPCH 30	Gateway to Communication Studies	3.0		
Required Subtotal at least 1				
	ral Education 39.0 -	42.0		
or IGETC Pattern				
Transfera	ble Electives 0.0	- 9.0		
Degree To	tal	60.0		

Associate in Arts in Psychology for Transfer

Humanities and Social Sciences Division Associate in Arts Degree Degree A0324

The Associate in Arts in Psychology for Transfer introduces students to the psychological principles and methodologies used in the scientific study of mental processes and behaviors. Students will acquire the foundational knowledge necessary to pursue post-secondary degrees in psychology and a variety of specialization in the field. The goals of this degree are to prepare students to identify research and statistical methods appropriate to psychology, to compare and contrast the major theoretical perspectives in psychology, and synthesize the relationships between biological and behavioral functions.

To earn an associate degree for transfer a student must complete 60 semester units that are eligible for transfer to CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses 10-11 Units

PSYC 1A Introduction to Psychology 3.0

		1109.	uiii	_
-		<u>or</u>		ı
	PSYC 1AH	Introduction to Psychology - Honors	3.0	
	PSYC 3	Research Methods/Psych	4.0	
	PSYC 10	Statistics for the Behavioral Sciences	4.0	
		<u>or</u>		:
	MATH 110	Elementary Statistics	3.0	
		<u>or</u>		:
	MATH 110H	l Elementary Statistics - Honors	3.0	
	List A (sele	ect one): (3-4 Units)		:
	BIOL 1	General Biology	4.0	
		<u>or</u>		ı
	PSYC 1B	Biological Psychology	3.0	
	List B (sel	ect one): 3 or more units. Any list A	١	
	course no	t used above		
	PSYC 14	Developmental Psychology	3.0	
		<u>or</u>		
	BIOL 13	Human Repro Devel Aging	3.0	
		<u>or</u>		
	CHLD 10	Child Growth and Development	3.0	
		<u>or</u>		
	CHLD 10H	Child Growth and Development	3.0	
		- Honors		
		<u>or</u>		
	ENGL 1C	Critical Thinking and Writing	4.0	
		<u>or</u>		
	ENGL 1CH	Critical Thinking and Writing - Honors	4.0	
		<u>or</u>		1
	PHIL 3	Logic in Practice	3.0	(
		<u>or</u>		
	PHIL 3H	Logic in Practice - Honors	3.0	
		<u>or</u>		

	PHIL 8	Critical Thinking	3.0			
0		<u>or</u>				
0	PHIL 9	Critical Thinking and Logical Writi	ng 3.0			
0		<u>or</u>				
	SOC 1	Sociology	3.0			
0		<u>or</u>				
	SOC 1H	Sociology - Honors	3.0			
0		<u>or</u>				
	SOC 15	Child Development	3.0			
0	List C (sel	List C (select One): 3 or more units. Any course				
	not used	above				
0	PSYC 5	Psychology of Reasoning	3.0			
		and Problem Solving				
		<u>or</u>				
0	PSYC 14	Developmental Psychology	3.0			
		<u>or</u>				
0	PSYC 15	Introduction to Child Psychology	3.0			
		<u>or</u>				
0	PSYC 19	Abnormal Psychology	3.0			
		<u>or</u>				
0	PSYC 25	The Psychology of Women	3.0			
		<u>or</u>				
	PSYC 26	Psychology of Sexuality	3.0			
0		<u>or</u>				
	PSYC 33	Psychology for Effective Living	3.0			
0	Required	Subtotal: at least	19.0			
	CSU Gene	eral Education 39.	0 - 42.0			
0	or IGETC _I	pattern				
	Transfera	able Electives	0.8-0.0			
0	Degree To	otal	60.0			

SECTIONNINE

Transferring to California Colleges and Universities



Committed to Student Success

PROGRAMS OF STUDY LEADING TO TRANSFER

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

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

Listed below are majors that may be offered at various campuses of the California State University (CSU) and/or the University of California (UC). Although a serious attempt was made to make this list a comprehensive one, it is not an exact list of every major available. To find out exactly what major is available at any particular university, please visit the Counseling Center. All of the CSU and UC catalogs are available in the Career and Transfer Center for your use. If you are undecided about which major is right for you, please make an appointment with a counselor in the Counseling Center, Ext. 4380.

Students who are preparing to transfer, especially to a UC campus, are strongly encouraged to balance their studies by taking both general education courses and lower division (freshman/sophomore) major courses. Completing only general education courses, especially for high unit majors, such as business administration, natural sciences, math or engineering, may not be in a student's best interest. Additional coursework may be completed as elective courses, to complement or supplement, a major course of study.

UNIVERSITY TRANSFER MAJOR OPTIONS

Liberal Arts 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 Religious Studies Renaissance Studies

Rhetoric

Social Sciences Anthropology Rehavioral Science

Behavioral Sciences Child Development Cultural Geography

Economics
Ethnic and Ar

Ethnic and Area Studies Asian Studies

Chicana/Chicano Studies Comparative Cultures European Studies

Latin American Studies Middle Eastern Studies

Native American Studies
Third World Studies

History

Human Development Law and Society

Legal Studies Peace and Conflict Studies Political Science Psychology Social Ecology Sociology Urban Studies Women's Studies

Natural Sciences & Math

LIFE SCIENCES

Biological Sciences Animal Physiology Biochemistry

Biomedical Sciences Botany

Ecology

Environmental Biology

Genetics Integrative Biology Marine Biology Microbiology

Molecular Biology Zoology Health Sciences

UNIVERSITY TRANSFER MAJOR OPTIONS (CONTINUED)

PHYSICAL SCIENCES

Astrophysics

Atmospheric Sciences

Chemistry
Earth Science
Geophysics

Oceanography
Physical Geography

Physical Sciences Physics

Geology

Soil/Water Sciences

MATH

Mathematics Statistics

Ouantitative Methods

Agriculture/Natural

Resources/Environment

Agricultural Management Agriculture

Animal Science Bio-resources

Conservation Entomology

Environmental Biology/ Toxicology Fisheries

Environmental Science/Studies

Food Science Forestry

Natural Resources Management Park Management Petroleum Studies

Plant Biology
Soil Sciences

Wildlife Management

Applied Arts

Architecture Art Design Graphic Arts Industrial Design

Interior Design

Landscape
Engineering &
Computer Science

COMPUTER SCIENCE/ENGINEERING

Aeronautics Bio-engineering Chemical Civil

Electrical/Electronic Environmental

Food Engineering Industrial Engineering Materials Science

Mechanical Nuclear Petroleum

<u>Business</u>

Accounting Finance

Human Resources Management

Information Systems International Business Management

Marketing Communication Advertising

Communication Studies

Film Studies
Journalism
Mass Communication
Mastian Dicture Talquie

Motion Picture — Television Photography

Photo — Journalism
Public — Relations
Radio — Television Services

Services

Communicative Disorders

Counseling Criminal Justice

Deaf Studies Dental Hygiene (UCSF) Fire Protection Administration

Government/Public Service
Health Care Management

Human Services Liberal Studies

Library Science

Medical Lab Technology 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.

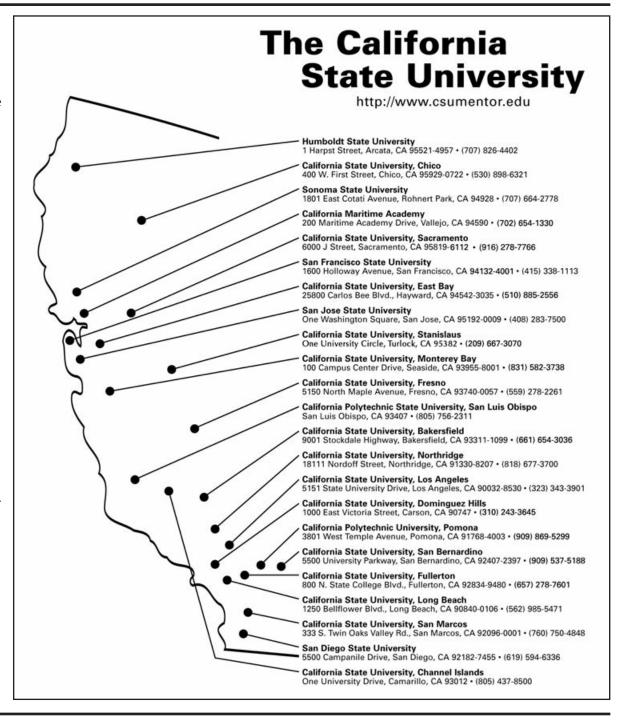
Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

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 2012-2013 California State University (CSU) undergraduate application.



The requirements listed below are for the 2012-2013 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. The following program is structured so that a student who completes the program will be assured of

properly meeting the General Education-Breadth Requirements of CSU. Area A and Mathematics must be completed with a minimum grade of "C." Students who have attended other colleges are urged to consult with a counselor or educational advisor for advice on satisfying General Education-Breadth Requirements.

Students beginning Fall 2012 must follow 2012-2013 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.

	ASTR 5H	Introduction to Astronomy – Honors	+ PHYS 2AG	General Physics	B-4: Mathematics
TI E P. I.	+ ASTR 5L	Astronomical Observing Laboratory	+ PHYS 2BG	•	Select at least one course from the following list:
The English Language and Critical Thinking	ASTR 7	Geology of the Solar System	+ PHYS 4A	Engineering Physics	BUSC 17 Applied Business Statistics
(9 units)	ASTR 8	Introduction to Stars, Galaxies	+ PHYS 4B	Engineering Physics	MATH 100 Survey of College Mathematics
Select one course from each group:		and the Universe	+ PHYS 4C	Engineering Physics	MATH110 Elementary Statistics
A-1: Oral Communication:	+ CHEM 10	Chemistry for Allied Health Majors	B-2: Life Sci	·	MATH 110H Elementary Statistics — Honors
SPCH 1A Public Speaking	+ CHEM20	Introductory Organic and Biochemistry		t one course from the following list:	MATH115 Statway 11
SPCH 1AH Public Speaking — Honors	+ CHEM40	Introduction to General Chemistry	AGOR 1	Horticultural Science	MATH 120 Finite Mathematics
SPCH 2 Fundamentals of Communication	+ CHEM50	General Chemistry I	+ ANAT 10A	Introductory Human Anatomy	MATH 130 College Algebra
SPCH 8 Professional and Organizational	+ CHEM50H	General Chemistry I — Honors	+ ANAT 10B	Introductory Human Physiology	MATH 140 Calculus for Business
Speaking	+ CHEM 51	General Chemistry II	+ ANAT 35	Human Anatomy	MATH 150 Trigonometry
SPCH 8H Professional and Organizational	GEOG 1	Elements of Physical Geography	+ ANAT 36	Human Physiology	MATH 160 Precalculus Mathematics
Speaking — Honors	GEOG 1H	Elements of Physical Geography	ANTH 1	Biological Anthropology	MATH 180 Calculus and Analytic Geometry
A-2: Written Communication:		- Honors	ANTH 1H	Biological Anthropology — Honors	MATH 181 Calculus and Analytic Geometry
ENGL 1A Freshman Composition	+ GEOG 1L	Physical Geography Laboratory	+ ANTH 1L	Biological Anthropology Laboratory	MATH 280 Calculus and Analytic Geometry
ENGL 1AH Freshman Composition — Honors	+ GEOG 1LH	Physical Geography Laboratory	+ BIOL 1	General Biology	MATH 285 Linear Algebra
A-3: Critical Thinking:		- Honors	+ BIOL 2	Plant and Animal Biology	and Differential Equations
ENGL 1C Critical Thinking and Writing	+ GEOL 1	Physical Geology	+BIOL 3	Ecology and Field Biology	PSYC 10 Statistics for the Behavioral Sciences
ENGL 1CH Critical Thinking and Writing — Honors	GEOL 7	Geology of California	+ BIOL 4	Biology for Majors	Area C
PHIL 3 Logic in Practice	GEOL 8	Earth Science	+ BIOL 4H	Biology for Majors — Honors	Arts, Literature, Philosophy and
PHIL 3H Logic in Practice – Honors	GEOL 8H	Earth Science — Honors	BIOL 6	Humans and the Environment	Foreign Languages (9 units)
PHIL 8 Critical Thinking	+ GEOL 8L	Earth Science Laboratory	+BIOL 6L	Humans and the Environment Laboratory	Select three courses, with at least one course from
PHIL 9 Critical Thinking and Logical Writing	GEOL 9	Environmental Geology	+ BIOL 8	Cell and Molecular Biology	"Arts" and one course from "Humanities":
PSYC 5 Psychology of Reasoning	GEOL 10	Natural Disasters	BIOL 17	Neurobiology and Behavior	
and Problem Solving	METO 3	Weather and the Atmospheric	BIOL 20	Marine Biology	C-1: Arts
SPCH 1B Intermediate Public Speaking		Environment	+ BIOL 21	Marine Biology Laboratory	AHIS 1 Understanding the Visual Arts, <u>or</u>
SPCH 20 Argumentation and Debate	+ METO 3L	Weather and Atmospheric	BIOL 34	Fundamentals of Genetics	ARTB 1 Understanding the Visual Arts
SPCH 20H Argumentation and Debate — Honors		Environment Laboratory	+ BIOL 34L	Fundamentals of Genetics Laboratory	AHIS 1H Understanding the Visual Arts — Honors
	OCEA 10	Introduction to Oceanography	+ MICR 1	Principles of Microbiology	
The Physical Universe & Life (9 units minimum):	OCEA 10H	Introduction to Oceanography — Honors	+ MICR 22	Microbiology	AHIS 3 History of Women and Gender in Art AHIS 3H History of Women and Gender in Art
Select one course from each group. Also, one lab (+)	+ OCEA 10L	Introduction to Oceanography	PSYC 1B	Biological Psychology	— Honors
course must be included in one of the science groups.		Laboratory	B-3: Lab Sci	ence	AHIS 4 History of Western Art: Prehistoric
j .	+ PHSC 3	Energy Science	This requirem	ent is met by taking ONE of the	Through Gothic
B-1: Physical Science –	PHSC 7	Physical Science		e indicated by a "+" sign. Lab must be	AHIS 4H History of Western Art: Prehistoric
Select at least one course from the following list:	+ PHSC 7L	Physical Science Laboratory	a correspondi	ng section to the lecture course taken.	Through Gothic – Honors
ASTR 5 Introduction to Astronomy	+ PHYS 1	Physics			milough dount – nonois

and Architecture FRCH 2 Continuing Elementary French JAPN 3 Intermediate Japanese SPAN 5 Advanced Spar AHIS 11 History of African, Oceanic and Native American Art FRCH 4 Continuing Intermediate French AHIS 12 History of Precolumbian Art FRCH 5 Advanced French LATN 1 Elementary Latin SPAN 12 Continuing Sparing Span 12 Continuing Sparing Span 12 Continuing Span 12 Continuing Span 13 SPAN 14 Span 15 SPAN 15 SPAN 16 Continuing Advanced French SPAN 17 Span 18 SPAN 18 SPAN 19 SPA	n Language 3 n Language 4
Through Modern AHIS 5H History of Western Art: Renaissance Through Modern — Honors AHIS 6H History of Modern Art AHIS 7H History of Modern Art AHIS 8H History of Modern Art AHIS 9History of Asian Art and Architecture AHIS 10 A History of Greek and Roman Art and Architecture AHIS 11 History of African, Oceanic and Native AHIS 12 History of Precolumbian Art AHIS 12 History of Precolumbian Art AHIS 12 History of Precolumbian Art CHIN 2 Continuing Elementary Chinese ITAL 3 Intermediate Italian SIGN 103 American Sign ITAL 4 Continuing Intermediate Italian SIGN 202 American Deaf Advanced Italian SIGN 202 American Deaf ITAL 5 Advanced Italian SIGN 202 American Deaf ITAL 6 Continuing Advanced Italian	n Language 3 n Language 4
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AHIS 12 History of Precolumbian Art FRCH 5 Advanced French LATN 1 Elementary Latin SPAN 12 Continuing Spa	e Spanish Speaking
AHIS 12H History of Precolumbian Art — Honors FRCH 6 Continuing Advanced French LATN 2 Continuing Elementary Latin for the Spanish	
ARCH 31 World Architecture I FRCH 60 French Culture Through Cinema LIT 1 Early American Literature SPAN 25 Spanish Literat	
ARCH 32 World Architecture II GERM 1 Elementary German LIT 2 Modern American Literature	
ADTD 14 Pagis Chudia Anta CEDM 2 Continuing Flomontowy Company LIT 2 Multigultural American Literatura	
ADTO 15A Description Degraphing CERMS Intermediate Comman LIT CA Company of English Literature Social, Political, and Econo	
ADTD 20 Decign Two Dimonsional * HICT 1 History of the United States LIT 6P Curvey of English Literature Benavior; Historical Backg	
APTO 25A Designation Deliminar L. * LICT 2. World Historic LIT 10. Curvou of Shakerneave Required Courses: Minimum 9	
ARTG 20 Art Artists and Society to Farly Modern LIT 11A World Literature to 1650	•
ARTS 22 Design: Three-Dimensional * HIST 3H World History: Prehistoric LIT 11B World Literature from 1650 D-0: Sociology & Criminolo	
ARTS 30A Ceramics: Beginning I to Early Modern — Honors LIT 14 Introduction to Modern Poetry CHLD 1 Child, Family, S	School and Community
ARTS 40A Sculpture: Beginning * HIST 4 World History: Farly Modern LIT 15 Introduction to Cinema SOC 1 Sociology	
DN-T-20 History and Appreciation of Dance to the Present LIT 20 African American Literature SOC 1H Sociology — Ho	onors
ID 14 History of Furniture and Decorative * HIST 4H World History: Farly Modern LIT 25 Contemporary Mexican American Lit SOC 2 Sociology	
Arts Arts to the Present — Honors IIT 36 Introduction to Mythology SOC 2H Sociology — Ho	
MUS 7 Fundamentals of Music	
MILS 11A Music Literature Survey * HIST 7H History of the United States to 1877 LIT 46 The Rible as Literature: Old Testament SOC 5 Introduction to	
MUS 11B Music Literature Survey — Honors LIT 47 The Bible as Literature: New Testament SOC 5H Introduction to	o Criminology — Honors
MILS 12 History of Jazz ** * HIST 8 History of the United States PHIL 5 Introduction to Philosophy SOC 14 Marriage and t	
MILS 13 Introduction to Music Appreciation from 1865 PHIL 5H Introduction to Philosophy — Honors SOC 14H Marriage and t	the Family — Honors
MUS 13H Introduction to Music Appreciation * HIST 8H History of the United States PHII 12 Fthics * 50C 15 Child Developn	
Honors - Honors PHII 12H Fthirs - Honors * SOC 20 Sociology of Et	
MUS 14A World Music * HIST 10 History of Premodern Asia PHII 15 Major World Religions * * SOC 20H Sociology of Et	thnic Relations
MUS 14B American Folk Music * HIST 11 History of Modern Asia PHIL 15H Major World Religions — Honors — Honors	
MUS 15 Rock Music History and Appreciation * HIST 19 History of Mexico PHIL 20A History of Western Philosophy D-1: Anthropology & Arche	eology
PHOT 15 History of Photography * HIST 30 History of the African American PHIL 20AH History of Western Philosophy ANTH 3 Archeology	
	ultural Anthropology
THTR 9 Introduction to Theatre Arts	ral Anthropology
THTR 10 History of Theatre Arts * HIST 36 Women in American History PHIL 20BH History of Western Philosophy ANTH 30 The Native American History	,
THTR 11 Principles of Acting I * HIST 39 California History — Honors D-2: Economics	
C-2: Humanities * HIST 40 History of the Mexican American * POLI 5 Political Theory I – Ancient to Modern AGAG 1 Food Production	on, Land Use
* Add 1 Tourisdad	A Global Perspective
ARAR 2 Continuing Flementary Arabic ITAL 1 Elementary Italian to Contemporary AGFR 20 Conservation o	of Natural Resources
SIGN 101 American Sign Language 1	

		CAL	IFORNIA STATE UNIVERSITY GENER	AL EDUCATION	ON REQUIREMENTS 2012 13	
BUSC 1A	Principles of Economics	* HIST 8	History of the United States			Notes
DOSC IA	- Macroeconomics	11151 0	from 1865	Area E		Upper division transfer students (60-70 semes)
RIISC 1AH	Principles of Economics	* HIST 8H	History of the United States		derstanding & Self Development	baccalaureate units), will need to have at least
DOSC IAII	 Macroeconomics – Honors 	11151 011	from 1865 – Honors	(3 units)		30 semester units of general education. Within
BUSC 1B	Principles of Economics	* HIST 10	History of Premodern Asia	Select at leas		those 30 units, Area A (9) semester units and
0030 10	- Microeconomics	* HIST 10	History of Modern Asia	AD 3	Chemical Dependency: Intervention,	Mathematics (3) semester units must be
DIICC 1DLI	Principles of Economics	* HIST 19	History of Mexico		Treatment and Recovery	completed with grades of "C" or better.
DUSC IDII	- Microeconomics — Honors	* HIST 30	History of the African American	BIOL 5	Contemporary Health Issues	CSULA transfer students are advised to complete.
INIID 100	Mass Media and Society	* HIST 31	History of the African American	BIOL 13	Human Reproduction, Development	ENGL 1C or ENGL 1CH as part of the Area A
	•	* HIST 35	History of Africa		and Aging	requirements. CSULA requires completion of
D-3: Ethnic		* HIST 36	Women in American History	BIOL 15	Human Sexuality	ENGL 102 (ENGL 1C or 1CH) as a prerequisite to
* HIST 30	History of the African American	* HIST 39	California History	BIOL 15H		UNIV 400 (Writing Proficiency Examination).
* HIST 31	History of the African American	* HIST 40	History of the Mexican American	BIOL 24	Introduction to Public Health	Courses on this list have been approved by
* HIST 40	History of the Mexican American	* HIST 44	History of Native Americans	* CHLD 10	Child Growth and Development	the CSU Office of the Chancellor for Fall 2012 a
* HIST 44	History of Native Americans		•	* CHLD 10H	Child Growth and Development	beyond. If a course was completed prior to
JOUR 107	Race, Culture, Sex,		isciplinary Social or Behavioral		— Honors	
	and Mass Media Images	Science		* CHLD 11	Child and Adolescent Development	approval, it cannot be certified for CSU Genera Education—Breadth requirements.
* POLI 25	Politics of the Mexican American	* CHLD 10	Child Growth and Development	COUN 5	Career/Life Planning	Some majors at CSU do not allow double
* POLI 35	African American Politics	* CHLD 10H	Child Growth and Development	FCS 41	Life Management	counting of major preparation courses and
* SOC 20	Sociology of Ethnic Relations		— Honors	KIN 34	Fitness for Living	general education requirements. Students are
* SOC 20H	3,	* CHLD 11	Child and Adolescent Development	LEAD 55	Exploring Leadership	advised to consult with a counselor or advisor
	- Honors	SPCH 7	Intercultural Communication	NF 10	Nutrition for Personal Health	determine if courses can be double counted.
D-4: Gender	r Studies	SPCH 7H	Intercultural Communication — Honors		and Wellness	5. Some majors require specific general educatio
* HIST 36	Women in American History	* SPCH 26	Interpersonal Communication	NF 25	Essentials of Nutrition	courses. Students planning to transfer are
* PSYC 25	The Psychology of Women	* SPCH 26H	Interpersonal Communication — Honors	NF 25H		
D-5: Geogra	nphy	SPCH 30	Gateway to Communication Studies	NF 28	Cultural and Ethnic Foods	advised to plan their schedules carefully in ord
GEOG 2	Human Geography	D-8: Politica	al Science, Government, and	* PSYC 14	Developmental Psychology	to maintain progress.
GEOG 2H	Human Geography — Honors	Legal Instit	utions	* PSYC 15	Introduction to Child Psychology	* Courses may not be double counted to satis
GEOG 5	World Regional Geography	POLI 1	Political Science	* PSYC 25	The Psychology of Women	more than one area, even if a course is listed
GEOG 8	The Urban World	POLI 1H	Political Science — Honors	PSYC 26	Psychology of Sexuality	more than one area.
GEOG 30	Geography of California	POLI 2	Political Science	PSYC 33	Psychology for Effective Living	
GEOG 30H		* POLI 5	Political Theory I — Ancient to Modern	* SOC 15	Child Development	
D-6: History	<i>5</i> . ,	* POLI 7	Political Theory II — Early Modern	* SPCH 26	Interpersonal Communication	
* HIST 1	History of the United States		to Contemporary	* SPCH 26H	Interpersonal Communication — Honors	
* HIST 3	World History: Prehistoric	POLI 9	Introduction to International Relations			
11131 3	to Early Modern	POLI 10	Environmental Politics			
* HIST 3H	World History: Prehistoric	POLI 25	Politics of the Mexican American		RICAN INSTITUTIONS & U.S. HISTOR	RY GRADUATION REQUIREMENT:
11151 511	to Early Modern — Honors	POLI 35	African American Politics	Option 1:	HIST 7 (or 7H) + HIST 8 (or 8H)	
* HIST 4	World History: Early Modern	D-9: Psycho	logy		If Option #1 is selected, DO NOT select	another D6 course as your third Area D course.
11131 4	to the Present	PSYC 1A	Introduction to Psychology	Option 2:	Completion of one course from U.S. His	story plus one course from American Institutions:
* HIST 4H	World History: Early Modern	PSYC 1AH	, ,,		United States History:	American Institutions:
11151 411	to the Present — Honors	* PSYC 14	Developmental Psychology		HIST 1 HIST 7H HIST 8H HI	IST 31 HIST 40 POLI 1 POLI 25
* HIST 7	History of the United States to 1877	* PSYC 15	Introduction to Child Psychology		HIST 7 HIST 8 HIST 30 HI	IST 36 POLI 1H POLI 35
		DCVC 10	Abnormal Developer	The two co	ourses from Ontion 1 or Ontion 2 may be	used as part of the Qunits for ARFA D

PSYC 19

* PSYC 25

* HIST 7H

History of the United States to 1877

- Honors

Abnormal Psychology

The Psychology of Women

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

THE UNIVERSITY OF CALIFORNIA

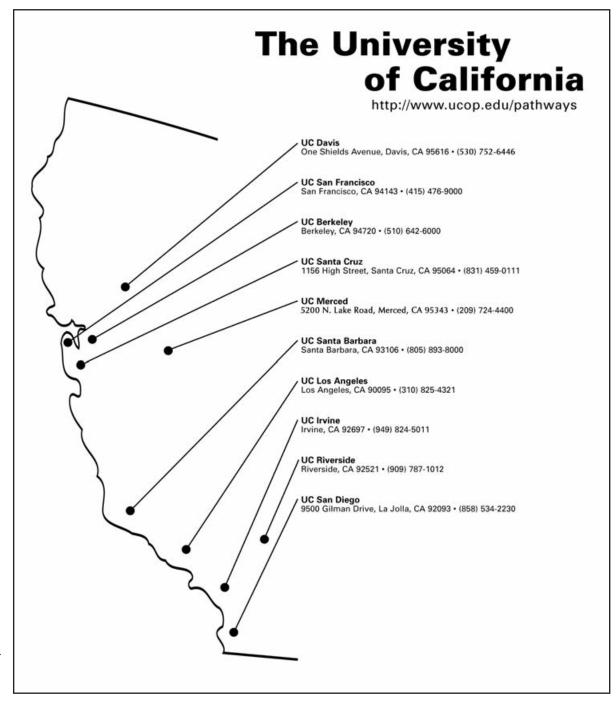
UC Minimum Admission Requirements

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; and
 - B. Complete the following course pattern requirement, earning a grade of "C" or better in each course:
 - two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
 - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and
 - four transferable college courses (3 semester or 4-5 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) 2012-13

The requirements listed below are for the 2012-2013 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) system or California State University (CSU) without the need, after transfer, to take additional lowerdivision general education courses to satisfy university general education requirements. It should be noted that completion of the IGETC is not an admission requirement for transfer to UC or CSU, nor is it the only way to fulfill the lower-division general education requirements of UC or CSU prior to transfer. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option to be advantageous (i.e. Engineering, Sciences).

The requirements listed below must be completed in their entirety for full certification to the UC and CSU. For students who have completed coursework at multiple campuses, the campus of last attendance prior to transfer to UC or CSU will certify the coursework. Mt. SAC will certify coursework from other campuses according to the IGETC list of the originating campus. A minimum grade of "C" is required in each course. (A grade of "C—" is not acceptable.)

Students beginning Fall 2012 must follow 2012-2013 IGETC requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling Center.

Area 1		ARTB 1	Understanding the Visual Arts
	isatian	AHIS 1H	Understanding the Visual Arts — Ho
English Com		AHIS 3	History of Women and Gender in A
	rse from each group:	AHIS 3H	History of Women and Gender in A
	glish Composition		Honors
	Freshman Composition	AHIS 4	History of Western Art: Prehistoric
	Freshman Composition — Honors		Through Gothic
	tical Thinking – Composition	AHIS 4H	History of Western Art: Prehistoric
ENGL 1C	Critical Thinking and Writing		Through Gothic — Honors
ENGL 1CH	Critical Thinking and Writing — Honors	AHIS 5	History of Western Art: Renaissand
PHIL 9	Critical Thinking and Logical Writing		Through Modern
Group C: Ora	l Communication	AHIS 5H	History of Western Art: Renaissand
SU requireme			Through Modern — Honors
SPCH 1A	Public Speaking	AHIS 6	History of Modern Art
	Public Speaking — Honors	AHIS 6H	History of Modern Art — Honors
SPCH 2	Fundamentals of Communication	AHIS 9	History of Asian Art and Architectu
	•	AHIS 10	A History of Greek and Roman Art
Area 2			and Architecture
Mathematic	al Concepts and Quantitative	AHIS 11	History of African, Oceanic,
Reasoning			and Native American Art
Select one cou	rse from:	AHIS 12	History of Precolumbian Art
MATH 110	Elementary Statistics	AHIS 12H	
MATH 110H	Elementary Statistics — Honors	ARCH 31	
MATH 120	Finite Mathematics	ARCH 32	World Architecture II
MATH 130	College Algebra	DN-T 20	
MATH 140	Calculus for Business	MUS 11A	
MATH 160	Precalculus Mathematics	MUS 11B	Music Literature Survey
MATH 180	Calculus and Analytic Geometry	MUS 12	History of Jazz
MATH 181	Calculus and Analytic Geometry	MUS 13	
MATH 280	Calculus and Analytic Geometry	MUS 13H	Introduction to Music Appreciation
MATH 285	Linear Algebra and Differential Equations		Honors
PSYC 10	Statistics for the Behavioral Sciences	MUS 14A	World Music
Area 3		MUS 14B	American Folk Music
		MUS 15	, , , , , , , , , , , , , , , , , , , ,
Arts and Hu		THTR 10	History of Theater Arts
	ırses minimum, at least one course from	Humanitie	s Courses:
the Arte aroun	and one course from the Uumanities aroun.		

CHIN 3

CHIN 4

ENGL 1B

the Arts group and one course from the Humanities group:

Understanding the Visual Arts, or

Arts Courses:

AHIS 1

auvantageous (ne. Engineening, sciences).		m which they were completed student		,		
Understanding the Visual Arts	FNGL 1BH	English – Introduction		APN	3	Intermediate Japanese
Understanding the Visual Arts — Honors	2.1.02 1311	to Literary Types — Honors		APN		Continuing Intermediate Japanese
History of Women and Gender in Art	FRCH 3	Intermediate French		APN		Advanced Japanese
History of Women and Gender in Art	FRCH 4	Continuing Intermediate French				Early American Literature
- Honors	FRCH 5	Advanced French				Modern American Literature
History of Western Art: Prehistoric	FRCH 6	Continuing Advanced French				Multicultural American Literature
Through Gothic	FRCH 60	French Culture Through Cinema	1 -		-	Survey of English Literature
History of Western Art: Prehistoric	GERM3	Intermediate German				Survey of English Literature
Through Gothic — Honors	HIST 1	History of the United States				Survey of Shakespeare
History of Western Art: Renaissance	HIST 3	World History: Prehistoric				World Literature to 1650
Through Modern		to Early Modern	1 -			World Literature from 1650
History of Western Art: Renaissance	HIST 3H	World History: Prehistoric	l .			Introduction to Modern Poetry
Through Modern — Honors		to Early Modern — Honors				Introduction to Cinema
History of Modern Art	HIST 4	World History: Early Modern				African American Literature
History of Modern Art — Honors		to the Present	l	.IT	25	Contemporary Mexican American
History of Asian Art and Architecture	HIST 4H	World History: Early Modern				Literature
A History of Greek and Roman Art		to the Present – Honors	l	.IT	36	Introduction to Mythology
and Architecture	HIST 7	History of the United States to 1877	l	.IT		The Bible as Literature: Old Testament
History of African, Oceanic,	HIST 7H	History of the United States to 1877	l	.IT	47	The Bible as Literature: New Testament
and Native American Art		- Honors		PHIL	5	Introduction to Philosophy
History of Precolumbian Art	HIST 8	History of the United States		PHIL	5H	Introduction to Philosophy – Honors
History of Precolumbian Art — Honors		from 1865		PHIL	12	Ethics
World Architecture I	HIST 8H	History of the United States				Ethics — Honors
World Architecture II		from 1865 — Honors		PHIL		Major World Religions
History and Appreciation of Dance	HIST 10	History of Premodern Asia				Major World Religions — Honors
Music Literature Survey	HIST 11	History of Modern Asia				History of Western Philosophy
Music Literature Survey	HIST 19	History of Mexico				History of Western Philosophy — Honors
History of Jazz	HIST 30	History of the African American				History of Western Philosophy
Introduction to Music Appreciation	HIST 31	History of the African American	F	PHIL	20BH	History of Western Philosophy — Honors
Introduction to Music Appreciation	HIST 35	History of Africa		POLI		Political Theory I — Ancient to Modern
Honors	HIST 36	Women in American History	*	POLI		Political Theory II — Early Modern
World Music	HIST 39	California History				to Contemporary
American Folk Music	HIST 40	History of the Mexican American		SIGN		American Sign Language 4
Rock Music History and Appreciation	HUMA1	The Humanities		SIGN		American Deaf Culture
History of Theater Arts	ITAL 3	Intermediate Italian		SPAN		Intermediate Spanish
s Courses:	ITAL 4	Continuing Intermediate Italian		PAN		Continuing Intermediate Spanish
Intermediate Chinese	ITAL 5	Advanced Italian		SPAN		Advanced Spanish
Continuing Intermediate Chinese	ITAL 6	Continuing Advanced Italian		PAN		Continuing Advanced Spanish
English — Introduction to Literary Types	ITAL 60	Italian Culture Through Cinema	5	SPAN	25	Spanish Literature

Area 4

Social and Behavioral Sciences

Select three courses total from a minimum of two different subject areas:

ANTH 3	Archaeology
ANTH 5	Principles of Cultural Anthropology, or
ANTH 22	General Cultural Anthropology
BUSC 1A	Principles of Economics: Macroeconomics
BUSC 1AH	Principles of Economics:
	A4 ' 11

Macroeconomics – Honors
BUSC 1B Principles of Economics:
Microeconomics

BUSC 1BH Principles of Economics:
Microeconomics – Honors
GEOG 2 Human Geography

GEOG 2H Human Geography – Honors GEOG 8 The Urban World

GEOG 30 Geography of California GEOG 30H Geography of California – Honors

HIST 44 History of Native Americans

POLI 1 Political Science
POLI 1H Political Science — Honors

* POLI 5 Political Theory I – Ancient to Modern

* POLI 7 Political Theory II — Early Modern to Contemporary

POLI 9 Introduction to International Relations

POLI 10 Environmental Politics

POLI 25 Politics of the Mexican American

POLI 35 African American Politics PSYC 1A Introduction to Psychology

PSYC 1AH Introduction to Psychology – Honors PSYC 14 Developmental Psychology

PSYC 15 Introduction to Child Psychology

PSYC 19 Abnormal Psychology

PSYC 25 The Psychology of Women

SOC 1 Sociology

SOC 1H Sociology – Honors

SOC 2 Sociology

SOC 2H Sociology – Honors SOC 4 Introduction to Gerontology

SOC 5 Introduction to Criminology
SOC 5H Introduction to Criminology

SOC 5H Introduction to Criminology — Honors SOC 20 Sociology of Ethnic Relations

SOC 20H Sociology of Ethnic Relations — Honors SPCH 7 Intercultural Communication

SPCH 7H Intercultural Communication – Honors

SPCH 26 Interpersonal Communication SPCH 26H Interpersonal Communication – Honors

SPCH 30 Gateway to Communication Studies

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) 2012-13

Area 5

Physical and Biological Sciences

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

Physical Science:

'nysicai Scie	ence:
ÁSTR 5	Introduction to Astronomy
ASTR 5H	Introduction to Astronomy – Honors
ASTR 5L	Astronomical Observing Laboratory
ASTR 7	Geology of the Solar System
ASTR 8	Introduction to Stars, Galaxies, and
	4 0 4

the Universe

CHEM10 Chemistry for Allied Health Majors

CHEM20 Introductory Organic and Biochemistry
CHEM40 Introduction to General Chemistry

CHEM50 General Chemistry I

CHEM50H General Chemistry I – Honors

CHEM51 General Chemistry II Elements of Physical Geography

GEOG 1H Elements of Physical Geography

- Honors

GEOG 1L Physical Geography Laboratory

GEOG 1LH Physical Geography Laboratory

– Honors<u>GEOL 1</u> Physical Geology

GEOL 8 Earth Science GEOL 8H Earth Science — Honors

GEOL 8L Earth Science Laboratory

GEOL 9 Environmental Geology
METO 3 Weather and Atmosphe

METO 3 Weather and Atmospheric Environment

METO 3L Weather and Atmospheric Environment Laboratory

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

OCEA 10H Introduction to Oceanography — HO

Laboratory
PHSC 3 Energy Science

PHYS 1 Physics PHYS 2AG General Physics

PHYS 2BG General Physics

PHYS 4A Engineering Physics Engineering Physics

PHYS 4C Engineering Physics

Biological Science:

ANAT 10A Introductory Human Anatomy
ANAT 10B Introductory Human Physiology

ANAT 35 ANAT 36 ANTH 1 ANTH 1H	Human Anatomy Human Physiology Biological Anthropology Biological Anthropology — Honors	BIOL 6 BIOL 6L BIOL 8 BIOL 20	Humans and the Environment Humans and the Environment Laboratory Cell and Molecular Biology Marine Biology
ANTH 1L	Biological Anthropology Laboratory	BIOL 21	Marine Biology Laboratory
BIOL 1	General Biology	BIOL 34	Fundamentals of Genetics
BIOL 2	Plant and Animal Biology	BIOL 34L	Fundamentals of Genetics Laboratory
BIOL 3	Ecology and Field Biology	MICR 1	Principles of Microbiology
BIOL 4	Biology for Majors	MICR 22	Microbiology
BIOL 4H	Biology for Majors — Honors	PSYC 1B	Biological Psychology

UC REQUIREMENT ONLY

Language other than English:

The minimum proficiency required is met by completing one of the courses listed below or by completion of two years of high school study in the same language.

ARAB 1 Elementary Arabic JAPN 1 Elementary Japanese
CHIN 1 Elementary Chinese LATN 1 Elementary Latin
FRCH 1 Elementary French SIGN 101 American Sign Language 1
GERM 1 Elementary German SPAN 1 Elementary Spanish

ITAL 1 Elementary Italian SPAN 11 Spanish for the Spanish Speaking

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

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

Option 1: HIST 7 (or 7H) + HIST 8 (or 8H)

Hictory of the United States

History of the African American

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

Option 2: Completion of one course from U.S. History plus one course from American Institutions. See the categories below under United States History and American Institutions.

United States History:

ו וכווו	filstory of the officed states	טכ וכוח	Wollieli ili Allielicali fiistory
HIST 7	History of the United States to 1877	HIST 40	History of the Mexican American
HIST 7H	History of the United States to 1877	American	Institutions:
	— Honors	POLI 1	Political Science
HIST 8	History of the United States from 1865	POLI 1H	Political Science — Honors
HIST 8H	History of the United States from 1865	POLI 25	Politics of the Mexican American
	— Honors	POLI 35	African American Politics
HIST 30	History of the African American	. 02/00	, once

Notes:

HIST 31

UC limits transfer credit for some courses. Students may review the UC Transfer Course Agreement (TCA) with an educational advisor or counselor in the Student Services Center. Students must see an educational advisor or counselor for preliminary IGETC certification. For IGETC certification, the course must be on the list during the year taken. Students from non-English speaking countries should see an educational advisor or international student counselor for language proficiency equivalences.

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) CERTIFICATION

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

Transferring to California Colleges and Universities

- Samuel Merritt College
- · San Diego Christian College
- San Francisco Conservatory of Music
- Santa Clara University
- · Saybrook Graduate School and Research Center
- Scripps College
- Simpson University
- · Soka University of America
- · Southern California University of Health Sciences
- · Stanford University
- Thomas Aguinas College
- · Touro University
- · 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.

Advanced Placement Examinations in CSU/UC General Education – Breadth Certification

Advanced Placement examinations may be incorporated into certification of completion of CSU/UC General Education—Breadth requirements by any participating institution. Students must have scored 3, 4, or 5 on an Advanced Placement examination listed on the table to receive the credit indicated. All CSU/UC campuses will accept the minimum units shown on the table toward fulfillment of the designated General Education—Breadth area if the examination is included in a full or subject-area certification; individual CSU/UC campuses may choose to accept more units than those specified towards completion of General Education—Breadth requirements. The CSU/UC 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 for specific AP Subjects.

Art History 3 semester (Area C1 or C2) 6 semester Art (Studiol 8 N/A 3 semester Area Sta or 38) 8 quarter (7.5 a semester Area Sta or 38) 8 quarter (7.5 a semester Area Sta or 38) 8 quarter (7.5 a semester Area Sta or 38) 8 quarter (7.5 a semester Area Sta or 3 semester (Area A) 8 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.5 a semester Area Sta or 3 semester (Area A) 9 quarter (7.1 a semester Area Sta or 3 semester (Area A) 9 quarter (7.2 semester Area Sta or 3 semester (Area A) 9 quarter (7.2 semester Area Sta or 3 semester (Area A) 9 quarter (7.2 semester Area Sta or 3 semester (Area A) 9 quarter (7.2 semester Area Sta or 3 semester (Area A) 9 quarter (7.2 semester Area Sta or 3 semester (Area A) 9 quarter (7.2 semester Area Sta or 3 semester (Area A) 9 quarter (7.2 semester Area Sta or 4) 9 quarter (7.3 semester Area Sta or 4) 9 quar		COLLEGE CREDIT FOR ADVAN	CED PLACEN	MENT (AP) TESTS	
Art (Studio) 8 N/A 3 semester N/A 4 squarter / 5.3 semester Biology 4 semester (Area B2 and B3) 6 semester 4 semester (Area 2A) 4 quarter / 5.3 semester Calculus BC 1, 8, 9 3 semester (Area B4) 6 semester 3 semester (Area 2A) 4 quarter / 5.3 semester Chemistry 2 4 semester (Area B1 and B3) 6 semester 4 semester (Area A S with lab) 8 quarter / 5.3 semester Chinises Language & Culture 3 semester (Area C2) 6 semester 4 semester (Area A S with lab) 8 quarter / 5.3 semester Computer Science A1, 8 N/A 3 semester N/A 2 quarter / 1.3 semester N/A 2 quarter / 1.3 semester N/A 2 quarter / 1.3 semester N/A 4 quarter / 2.7 semester S semester (Area AB and AB) S semester N/A 4 quarter / 2.7 semester S semester (Area AB and AB) S semester N/A 4 quarter / 2.7 semester S semester (Area AB and AB) S semester Area AB and AB S semester Area AB and AB S semester Area AB	Exam	CSU GE Breadth Units	CSU Units	IGETC Units	UC Units
Art (Studio) 8 N/A 3 semester N/A 6 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 2A) 4 quarter / 5.3 semester As emester (Area 5A with lab) 8 quarter / 5.3 semester As emester (Area 5A with lab) 8 quarter / 5.3 semester As emester (Area 5A with lab) 8 quarter / 5.3 semester As emester (Area 5A with lab) 8 quarter / 5.3 semester As emester (Area 5A with lab) 8 quarter / 5.3 semester As emester (Area 5A with lab) 8 quarter / 5.3 semester As emester (Area 6A) 8	Art History	3 semester (Area C1 or C2)	6 semester	3 semester (Area 3A or 3B)	8 quarter / 5.3 semester
Calculus AB 1, 8, 93 semester (Area BA)3 semester (Area AB)4 quarter / 2.7 semesterCalculus BC 1, 8, 93 semester (Area BA)6 semester3 semester (Area AB)8 quarter / 5.3 semesterChemistry 24 semester (Area BB and BB)6 semester4 semester (Area AB)8 quarter / 5.3 semesterChinese Language & Culture3 semester (Area C2)6 semester3 semester (Area BB and 6A)8 quarter / 5.3 semesterComputer Science A1, 8N/A3 semesterN/A2 quarter / 1.3 semesterComputer Science AB 1, 8N/A6 semesterN/A4 quarter / 2.7 semesterConomics — Macroeconomics3 semester (Area D2)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterEconomics — Microeconomics3 semester (Area D2)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterEnglish — Lianguage & Composition 86 semester (Area A2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition 86 semester (Area A2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition 86 semester (Area B1 and B3)4 semester3 semester (Area 1A)8 quarter / 5.3 semesterFrench Literature 53 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterFrench Literature 53 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8)3 semester3 semeste			3 semester	N/A	•
Calculus AB 1, 8, 93 semester (Area BA)3 semester (Area AB)4 quarter / 2.7 semesterCalculus BC 1, 8, 93 semester (Area BA)6 semester3 semester (Area AB)8 quarter / 5.3 semesterChemistry 24 semester (Area BB and BB)6 semester4 semester (Area AB)8 quarter / 5.3 semesterChinese Language & Culture3 semester (Area C2)6 semester3 semester (Area BB and 6A)8 quarter / 5.3 semesterComputer Science A1, 8N/A3 semesterN/A2 quarter / 1.3 semesterComputer Science AB 1, 8N/A6 semesterN/A4 quarter / 2.7 semesterConomics — Macroeconomics3 semester (Area D2)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterEconomics — Microeconomics3 semester (Area D2)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterEnglish — Lianguage & Composition 86 semester (Area A2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition 86 semester (Area A2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition 86 semester (Area B1 and B3)4 semester3 semester (Area 1A)8 quarter / 5.3 semesterFrench Literature 53 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterFrench Literature 53 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8)3 semester3 semeste		4 semester (Area B2 and B3)	6 semester	4 semester (Area 5B with lab)	8 quarter / 5.3 semester
Chemistry 2 4 semester (Area B1 and B3) 6 semester Chinese Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 38 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 Economics — Microeconomics 3 semester (Area D2) 3 semester Economics — Microeconomics 3 semester (Area D2) 3 semester Economics — Microeconomics 3 semester (Area D2) 3 semester (Area 4B) 4 quarter / 2.7 semester English — Language & Composition 8 3 semester (Area D2) 3 semester (Area 4B) 4 quarter / 2.7 semester English — Literature & Composition 8 6 semester (Area A2 and C2) 6 semester 3 semester (Area 1A or 3B) 8 quarter / 5.3 semester English — Literature & Composition 8 6 semester (Area B1 and B3) 4 semester English — Literature & 3 semester (Area B1 and B3) 4 semester English — Literature & 3 semester (Area B1 and B3) 4 semester English — Literature & 3 semester (Area B1 and B3) 4 semester (Area A2 and C2) 6 semester 3 semester (Area A3 band 6A) 8 quarter / 5.3 semester French Literature 5 3 semester (Area C2) 6 semester 3 semester (Area A3 band 6A) 8 quarter / 5.3 semester Government & Politics — Comparative 3 semester (Area C2) 6 semester 3 semester (Area A3 band 6A) 8 quarter / 5.3 semester Government & Politics — Comparative 3 semester (Area C2) 6 semester 3 semester (Area AB band 6A) 8 quarter / 5.3 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area AB band 6A) 8 quarter / 5.3 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area AB band 6A) 8 quarter / 5.3 semester Hillian Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area AB band 6A) 8 quarter / 5.3 semester Human Geography 3 semester (Area C2) 6 semester 3 semester (Area AB band 6A) 8 quarter / 5.3 semester Human Geography 3 semester (Area C2) 6 semester 3 semester (Area AB band 6A) 8 quarter / 5.3 semester Human Geography 3	Calculus AB 1, 8, 9		3 semester	3 semester (Area 2A)	4 quarter / 2.7 semester
Chinese Language & Culture Omputer Science A 1, 8 N/A Semester Computer Science A 1, 8 N/A Semester Computer Science AB 1, 8 N/A Semester Semester Semester (Area 4B) Semester (Area 4B) Semester (Area 4B) Semester (Area 1A) Semester (Ar	Calculus BC 1, 8, 9	3 semester (Area B4)	6 semester	3 semester (Area 2A)	8 quarter / 5.3 semester
Computer Science A 1, 8 N/A Semester N/A Semester (Area 4B) 4 quarter / 2, 7 semester Computer Science A 1, 8 N/A Semester Computer Science A 1, 8 N/A Semester N/A Semester (Area 4B) 4 quarter / 2, 7 semester Semester Computer Science A 1, 8 N/A Semester N/A Semester (Area 4B) 4 quarter / 2, 7 semester Computer Science A 1, 8 N/A Semester (Area 4B) 4 quarter / 2, 7 semester Computer Science A 1, 8 N/A Semester (Area 4B) 4 quarter / 2, 7 semester Semester Computer Science A 1, 8 N/A Semester (Area 4B) 4 quarter / 2, 7 semester Semester (Area 1A) 8 quarter / 5, 3 semester Computer Science A 1, 8 N/A Semester (Area AB) Semester (Area 1A) Semester (Area 3B and 6A) Semester	Chemistry 2	4 semester (Area B1 and B3)	6 semester	4 semester (Area 5A with lab)	8 quarter / 5.3 semester
Computer Science AB 1, 8 N/A 6 semester Semester Aquarter / 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 Economics — Microeconomics 3 semester (Area D2) 3 semester 3 semester (Area 1A) 8 quarter / 5.3 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) 6 semester 3 semester (Area 1A) 8 quarter / 5.3 semester Environmental Science 3 semester (Area B1 and B3) 4 semester 3 semester (Area 1B and 6A) 8 quarter / 5.3 semester Environmental Science 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 German Language 4 3 semester (Area D8) 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Government 8 Politics — U.S. 3 semester (Area D8) 3 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester History — U.S. 3 semester (Area D8) 3 semester 3 semester (Area 3B and 6A) 4 quarter / 2.7 semester History — U.S. 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area D5) 3 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester 4 semes	Chinese Language & Culture	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Semester (Area AB) A quarter / 2.7 semester	Computer Science A 1, 8	N/A	3 semester	N/A	2 quarter / 1.3 semester
Economics	Computer Science AB 1, 8	N/A	6 semester	N/A	4 quarter / 2.7 semester
English — Language & Composition 8 3 semester (Area A2) 6 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 German Language 4 3 semester (Area D8) 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Government & Politics — Comparative 3 semester (Area D8) 3 semester (Area 4H) 4 quarter / 2.7 semester Government & Politics — U.S. 3 semester (Area D8 and US 2) 3 semester (Area 4H) 4 quarter / 2.7 semester History — U.S. 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Himman Geography 3 semester (Area C2 or D6) 6 semester 3 semester (Area 4B) 8 quarter / 5.3 semester Hitalian Language & Culture 6 3 semester (Area C2) 6 semester 3 semester (Area 4B) 4 quarter / 5.3 semester Italian Language & Culture 6 3 semester (Area C2) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Italian — Vergil 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Italian — Literature 5 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Italian — Literature 5 3 semester (Area C2) 6 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 Physics C — Mechanics 7, 8 4 semester (Area B1 and B3) 4 semester 4 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Mechanics 7, 8 4 semester (Area	Economics — Macroeconomics	3 semester (Area D2)	3 semester	3 semester (Area 4B)	4 quarter / 2.7 semester
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Latin — Literature 53 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterMusic Theory 5, 8, 103 semester (Area C1)6 semesterN/A8 quarter / 5.3 semesterPhysics B 7, 84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 4I)4 quarter / 2.7 semesterSpanish Language 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester (Area 22)4 quarter / 2.7 semester	Japanese Language & Culture	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Music Theory 5, 8, 103 semester (Area C1)6 semesterN/A8 quarter / 5.3 semesterPhysics B 7, 84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 4I)4 quarter / 2.7 semesterSpanish Language 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester (Area 22)4 quarter / 2.7 semester	<u>Latin — Vergil</u>	3 semester (Area C2)	3 semester	3 semester (Area 3B and 6A)	4 quarter / 2.7 semester
Physics B 7, 84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 4I)4 quarter / 2.7 semesterSpanish Language 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature 43 semester (Area B4)3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester (Area B4)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
Physics C — Mechanics 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 4I)4 quarter / 2.7 semesterSpanish Language 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature 43 semester (Area B4)3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester (Area 22)4 quarter / 2.7 semester	Music Theory 5, 8, 10	3 semester (Area C1)	6 semester	N/A	8 quarter / 5.3 semester
Physics C — Magnetism 7, 84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 4l)4 quarter / 2.7 semesterSpanish Language 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester (Area 2)4 quarter / 2.7 semester	Physics B 7, 8	4 semester (Area B1 and B3)	6 semester	4 semester (Area 5A with lab)	8 quarter / 5.3 semester
Psychology3 semester (Area D9)3 semester3 semester (Area 4l)4 quarter / 2.7 semesterSpanish Language 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester (Area 2)4 quarter / 2.7 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
Spanish Language 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester3 semester (Area 2)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
Spanish Literature 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester3 semester (Area 2)4 quarter / 2.7 semester	Psychology	3 semester (Area D9)	3 semester	3 semester (Area 4I)	4 quarter / 2.7 semester
Spanish Literature 43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterStatistics3 semester (Area B4)3 semester3 semester (Area 2)4 quarter / 2.7 semester		3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
		3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
			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 C2 of GE Breadth. Tests after Fall 2009 may apply 3 units to area C2.
- 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 exam 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.
- 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.

SECTIONTEN

Course Descriptions

Committed to Student Success

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 resident 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 Transfer Center.

UC Transfer

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 Credit Limitation

UC limits credit for some courses. Students contemplating transfer to UC should consult with a counselor or advisor and review **www.assist.org** for course credit limitations and changes.

UC Credit for Kinesiology Activity Courses

A maximum of four semester units of UC credit will be awarded for Kinesiology Activity courses. Courses of a vocational nature will not be awarded UC credit.

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 is a course which is advised, but not required, to be taken either before or in conjunction with enrollment in a course.

Not Degree Applicable

Courses designated "Not Degree Applicable" 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 Applicable

Courses designated "Degree Applicable" are college-level classes which are a part of an associate degree or certificate program.

				COURSE PREFIX LISTING				
AD	Alcohol Drug Counseling1	19	CISM	Computer Information Systems: Management	143	KIN-X	Kinesiology: Athletics	174
ADJU	Administration of Justice: Law Enforcement		CISN	Computer Information Systems: Networking		LATN	Latin	
AERO	Aeronautics		CISP	Computer Information Systems: Programming		LCOM	Learning Communities	I
AGAG	Agriculture: General Subjects1		CISS	Computer Information Systems: Security		LEAD	Leadership	
AGAN	Agriculture: Animal Science — General1		CISW	Computer Information Systems: Web Applications		LERN	Learning Assistance	
AGFR	Agriculture: Forestry, Conservation1		CISX	Computer Information Systems: Auxiliary		LIBR	Library & Instructional Media	
AGHE	Agriculture: Animal Health Technology1		CNET	Computer and Networking Technology		LIT	English: Literature	
AGLI	Agriculture: Livestock Production1		CORS	Correctional Sciences		MATH	Mathematics	
AGOR	Agriculture: Ornamental Horticulture1	13	COUN	Counseling	148	MEDI	Medical Terminology	184
AGPE	Agriculture: Pet Science1		CSCI	Computer Science		MENT	Mental Health/Psychiatric Technician	184
AIRC	Air Conditioning & Refrigeration1	15	DN-T	Dance: Theory	150	METO	Meteorology	185
AIRM	Aircraft Maintenance Technology1	17	DNCE	Dance: Activity	148	MFG	Manufacturing Technology	182
AIRT	Air Traffic Control1	16	DSPS	Disabled Students	151	MICR	Microbiology	185
AMLA	American Language1	19	EDUC	Education	152	MUS	Music	185
ANAT	Anatomy & Physiology1	20	EDT	Engineering Design Technology	155	NF	Nutrition & Food	190
ANTH	Anthropology1	21	ELEC	Electronics	152	NURS	Nursing	189
ARAB	Arabic1	21	EMS	Emergency Medical Service	154	OCEA	Oceanography	191
ARCH	Architectural Technology1	21	EMT	Emergency Medical Technician	155	PAP	Physician Assistant Preparatory	194
ANIM	Art: Animation1	23	ENGL	English: Composition	156	PHIL	Philosophy	191
ARTB	Art: Basic Studio Arts1	24	ENGR	Engineering		PHOT	Photography	
ARTC	Art: Graphic Design and Illustration1	25	EST	Electronics Systems Technology		PHTH	Physical Therapy Aide	194
ARTG	Art: Gallery & Professional Practices1	24	FCS	Family & Consumer Sciences		PHSC	Physical Science	193
ARTZ	Art: Special Studio Arts1		FASH	Fashion Merchandising & Design		PHYS	Physics	
ARTS	Art: Three-Dimensional Studio Arts	26	FIRE	Fire Technology	161	PLGL	Business: Paralegal	135
ARTD	Art: Two-Dimensional Studio Arts1	27	FRCH	French	162	POLI	Political Science	194
AHIS	Art History1	29	GE0G	Geography	162	PSYC	Psychology	
ASTR	Astronomy1	30	GE0L	Geology	163	R-TV	Radio & Television	
BIOL	Biology1		GERM	German		RAD	Radiologic Technology	
BTNY	Botany1	- 1	HIST	History		READ	Reading	
BUSA	Business: Accounting1		HRM	Hospitality & Restaurant Management		RESD	Respiratory Therapy	
BUSC	Business: Economics	- 1	HT	Histotechnology		SIGN	Sign Language & Interpreting	
BUSL	Business: Law1		HUMA	Humanities		SL	Service Learning	
BUSM	Business: Management		ID	Interior Design		SOC	Sociology	
BUS0	Business: Business Communications		IDE	Industrial Design Engineering		SPAN	Spanish	
BUSR	Business: Real Estate		INSP	Inspection & Estimating, Building		SPCH	Speech	I
BUSS	Business: Sales, Merchandising & Marketing	- 1	ITAL	Italian		STDY	Study Techniques	
CHMT	Chemical Technology1		JAPN	Japanese		SURV	Surveying	
CHEM	Chemistry1		JOUR	Journalism		TECH	Technology-Related Courses	
CHIN	Chinese		KIN	Kinesiology: Theory		THTR	Theater Arts	
CHLD	Child Development	- 1	KIN-A	Kinesiology: Aquatics		TRAN	Transportation	
GRAP	Computer Graphics		KIN-F	Kinesiology: Fitness		TUTR	Tutor Training	
CISB	Computer Information Systems: Beginning1		KIN-I	Kinesiology: Individual		WATR	Water Technology	
CISD	Computer Information Systems: Database	- 1	KIN-L	Kinesiology: Adaptive		WELD	Welding	208
CISI	Computer Information Systems: Information Processing1	13	KIN-S	Kinesiology: Team Sport	1/9			

ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT

■ ADJU 1 — The Administration of Justice System 3 Units Degree Applicable, CSU. UC

54 hours lecture

History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction.

■ ADJU 2 — Principles and Procedures of the Justice System 3 Units

Degree Applicable, CSU

54 hours lecture

Roles and responsibilities of each segment of the justice system; additional focus on relationships between system segments and sub-system procedures from initial incident to final disposition.

■ ADJU 3 — Concepts of Criminal Law

w 3 Units Degree Applicable, CSU, UC

54 hours lecture

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

■ ADJU 4 — Legal Aspects of Evidence

3 Units

Degree Applicable, CSU

54 hours lecture

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

■ ADJU 5 — Community Relations

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for English 68

Community problems and policing. Focus on service image, diversity, human relations, crises and confrontations with the public.

■ ADJU 6 — Concepts of Enforcement Services 3 Units

Degree Applicable

54 hours lecture

Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences.

■ ADJU 13 — Concepts of Traffic Services

3 Units Degree Applicable

54 hours lecture

A study of traffic management, collision reconstruction, collision factors including law violations and human factors, collision evidence, traffic enforcement techniques and specialization in traffic management. Emphasis is placed on service to the motoring public.

■ ADJU 20 — Principles of Investigation

3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for English 68

Fundamentals of investigation; 4th Amendment issues including crime scene search and recording; collection and preservation of physical evidence; modus operandi; scientific aids; sources of information; interviews and interrogation; follow up and case preparation.

■ ADJU 38 — Narcotics Investigation

3 Units

Degree Applicable

54 hours lecture

Prerequisite: Eligibility for English 68

Investigation techniques for drug enforcement. Drug effects, use of informants, amendment issues, and handling of evidence.

■ ADJU 59 — Gangs and Corrections

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68, and ADJU 1

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 corrections role in intervention and suppression.

■ ADJU 68 — Administration of Justice Report Writing 3 Units Degree Applicable

54 hours lecture

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

■ ADJU 74 — Vice Control

3 Units
Degree Applicable

54 hours lecture

Prerequisite: Eligibility for English 68

Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of laws dealing with gambling, prostitution, and sex crimes.

AERONAUTICS

■ AERO 23 — Primary Pilot Ground School

Degree Applicable, CSU

72 hours lecture

Basic aerodynamics, aircraft performance, Federal Aviation Regulations, aviation weather factors, and cross-country navigation procedures; provides introductory material on radio navigation, aeromedical factors, and radio communications procedures. Meets the preparation requirements for the FAA Private Pilot computerized knowledge examination.

■ AERO 24 — Navigation

3 Units

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23

Advanced dead reckoning navigation procedures. Aeronautical computers and their application in cross-country flying. Use of radio navigation aids, flight planning, flight directors, global positioning system, and electronic flight instrumentation systems.

■ AERO 25 — Commercial Pilot Ground School

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23

FAA Commercial Pilot certification requirements, including aerodynamics, commercial pilot maneuvers, complex aircraft operations, multi-engine aircraft operations, aircraft weight and balance, aircraft performance charts, and radio navigation using advanced instrumentation. Prepares students for completion of the FAA Commercial Pilot Computerized Knowledge Examination.

■ AERO 26 — Aviation Weather

3 Units

Degree Applicable, CSU

54 hours lecture

A basic study of weather elements, the atmosphere, weather mechanics, weather disturbances, weather analysis and forecasts.

Evaluation of aviation weather reports and forecasts.

■ AERO 27 — Aviation Safety and Human Factors 3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23

Evaluation and analysis of factors which lead to aircraft accidents. Includes the study of aircraft accident cause factors, with emphasis on human behavior as it relates to the environment of the pilot and air traffic controller.

■ AERO 28 — Aircraft and Engines

3 Units

Degree Applicable, CSU

54 hours lecture

Advisorv: AERO 23

Aircraft design, subsystems, repair and maintenance. Principles of internal combustion engines, fuel system, engine construction and design, lubrication and cooling methods, ignition system, basic troubleshooting. Turbine engine basic design and operational characteristics.

■ AERO 29 — Federal Aviation Regulations 2 Units

Degree Applicable, CSU

36 hours lecture

Federal Aviation Regulations that pertain to pilot certification, aircraft maintenance, general operating rules; air traffic control practices and procedures; reporting of aircraft accidents.

■ AERO 30 — Instrument Ground School

3 Units Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23 and AERO 26

Instrument Flight Rules, Air Traffic Control communications and procedures, air navigation radio aids, instrument landing systems, flight instruments, aircraft performance, aeronautical publications, instrument approach procedures, IFR cross-country navigation, and instrument weather. Meets the preparation requirements for the FAA Instrument Pilot computerized knowledge exam.

■ AERO 40 — Flight

1 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Advisory: AERO 23 taken prior or concurrently

Flight training career preparation, including evaluation of locally available flight training options and flight career opportunities including corporate aviation, charter operations, cargo airline careers, and military flight training.

■ AERO 40L — Flight Laboratory

1 Unit

Degree Applicable

 $(May\ be\ taken\ four\ times\ for\ credit)$

(May be taken for Pass/No Pass only)

54 hours lab

Corequisite: AERO 40

Advisory: AERO 23 taken prior or concurrently

Primary pilot training and the development of specialized skills. Students individually schedule training lessons at a flight school of their choice, under the supervision of an FAA certificated flight instructor. Students must complete a minimum of 15 hours of flight time, including three hours of dual instruction. Students who repeat this course will improve skills through further instruction and practice.

■ AERO 41 — Basic Flight Simulator Laboratory .5 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

27 hours lab

Advisory: AERO 25

Flight simulator training in the iGATE PC-ATD simulator in preparation for the instrument rating. Full and partial panel airwork, holding patterns, VOR and ADF orientation, and instrument approach procedures.

■ AERO 42 — Advanced Flight Simulator Laboratory .5 Unit Degree Applicable

(May be taken for Pass/No Pass only)

27 hours lab

Advisory: AERO 30 or AERO 41

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

■ AERO 45A — Multi-Engine Turbine Aircraft Operations 3 Units Degree Applicable

54 hours lecture

Advisory: Private Pilot's Certificate and AERO 30 or Instrument Rating

An introduction to the design features and operational characteristics of a selected multi-engine turbine aircraft utilized in regional airline operations and corporate aviation, with emphasis on aircraft and engine systems.

■ AERO 58 — Flight Instructor Ground School

3 Units
Degree Applicable

54 hours lecture

Advisory: AERO 25 and AERO 30 or Commercial Pilot Certificate with Instrument Rating

The learning process, basic teaching principles, and the application of these principles in teaching student pilots. Analysis of flight maneuvers and instruments. Prepares students for the FAA computerized knowledge tests for Flight Instructors.

AGRICULTURE: ANIMAL HEALTH TECHNOLOGY

■ AGHE 54 — Veterinary Office Procedures 3 Units

Degree Applicable, CSU

54 hours lecture

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

■ AGHE 60 — Medical Nursing and Animal Care 4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: AGHE 86 and formal admittance to the Registered Veterinary Technology program

Animal examination for health and disease conditions in the animal hospital, including sanitation, administration of medicine, emergency treatment, therapeutic techniques, dental prophylaxis, venipuncture, electrocardiology, application of casts, splints and other appliances. Includes diseases, their causes and effects, and immunology of animals.

■ AGHE 61 — Surgical Nursing

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: AGHE 60

Surgical preparation, surgical assistance, post-operative care, administer and monitor anesthesia, dentistry, CPR, sterilization and the maintenance of a sterile environment.

■ AGHE 62A — Clinical Pathology

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: AGHE 86

Hematology, clinical chemistries, internal parasites, immunology, serology, and vaginal cytology of domestic animals.

■ AGHE 62B — Clinical Pathology

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: AGHE 86

Bacteriology, clinical chemistry, urinalysis, external parasites and cytology of domestic animals.

■ AGHE 64 — Veterinary Pharmacology

3 Units

Degree Applicable, CSU

54 hours lecture

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

Basic concepts in pharmacological chemistry. Pharmaceuticals and biologics commonly used in the maintenance of animal health. Includes generic terminology, abbreviations for prescriptions, labeling requirements, state and federal laws, classification of materials, weights and measures, drug dosage flow rates, pharmacological mathematics and the metric system, side effects and drug interactions.

■ AGHE 65 — Veterinary Radiography

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

Prerequisite: AGHE 86 and Formal admittance to the Registered Veterinary Technology Program

Concepts and skills of veterinary positioning of canine, feline, avian, reptilian species, and livestock for radiography; processing of the radiograph; radiation safety; technique and instrumentation; contrast radiography, dental radiology and advanced imaging as ultrasound, MRI, CT scan, nuclear isotopes scans. Emphasizes performance of x-ray procedures for the veterinary practitioner.

■ AGHE 79 — Laboratory Animal Medicine and Care 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

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

■ AGHE 83A — Work Experience in Animal Health 1 to 2 Units Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 150 hours lab

Prerequisite: Formal admittance in the Registered Veterinary Technology Program. Compliance with Work Experience regulations as designated in the College Catalog.

This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to class-room instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

■ AGHE 84B — Applied Animal Health Procedures 1 Unit Degree Applicable

54 hours lab

Spring field study course in the collection, handling and analysis of feces, urine and blood samples of pet and domestic animals. Practical experience in applied clinical procedure and techniques, including treatments and minor surgical procedures with school domestic farm animals. Experiences with animals will vary due to seasonal changes and different husbandry practices during fall and spring.

■ AGHE 85 — Seminar in Registered Veterinary Technology 1 Unit Degree Applicable

18 hours lecture

Prerequisite: Completion of the Registered Veterinary Technology program

Group study course designed to 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.

■ AGHE 86 — Anatomy and Physiology of Domestic Animals

4 units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: Formal admittance to the Registered Veterinary Technology Program.

Analyzes the body structures and systems, comparing domestic animals commonly found in veterinary medicine. The physiology section will emphasize functions of internal organs and body systems.

AGRICULTURE: ANIMAL SCIENCE GENERAL

■ AGAN 1 — Animal Science

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

■ AGAN 2 — Animal Nutrition

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

■ AGAN 51 — Animal Handling and Restraint 3 Units

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Degree Applicable, CSU

36 hours lecture

54 hours lab

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

■ AGAN 94 — Animal Breeding

3 Units

Degree Applicable

(May be taken four times for credit)

54 hours lecture

The science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included.

AGRICULTURE: FORESTRY, CONSERVATION

■ AGFR 20 — Conservation of Natural Resources 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Concepts of conservation biology for natural resources, including biogeography, biodiversity and extinction, environmental law, and conservation organizations. Emphasis on temperate forest, tropical forest, desert, and grassland ecosystems.

AGRICULTURE: GENERAL SUBJECTS

■ AGAG 1 — Food Production, Land Use and Politics 3 Units - A Global Perspective

Degree Applicable, CSU, UC

54 hours lecture

Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture.

■ AGAG 59 — Work Experience in Agriculture

Degree Applicable

1 to 4 Units

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

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

This course is designed to provide Animal Science majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

■ AGAG 91 — Agricultural Calculations

3 Units

Degree Applicable

54 hours lecture

Prerequisite: MATH 50

Calculating the proper dosages of veterinary drugs, application rates of farm and horticultural chemicals inclusive of fertilizer and pesticide materials, feed rations, land area and volume measurements, calibrating application equipment, plotting production rates and feed conversion, determining proper concentrations and dilutions.

■ AGAG 99 — Special Projects in Agriculture 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

36 hours lecture

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

AGRICULTURE: LIVESTOCK PRODUCTION

■ AGLI 12 — Exotic Animal Management

3 Units

Degree Applicable

54 hours lecture

Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals.

■ AGLI 14 — Swine Production

3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

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

■ AGLI 16 — Horse Production and Management 4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Selection, utilization, and management of the light horse. Emphasis is on evaluation, health care, and handling skills.

■ AGLI 17 — Sheep Production

3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

A study of the various types of sheep enterprises and the ways and means of entering them. Sheep management, sheep handling, feeding, shearing, breeding, lambing, and marketing. Practical skills are taught on the school farm and sheep farms in the area.

■ AGLI 18 — Horse Ranch Management 4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisorv: AGLI 16

Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm lay out, estrous cycles, breeding problems and stallion care.

■ AGLI 19 — Horse Hoof Care

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

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

■ AGLI 20 — Horse Behavior and Training

2 Units Degree Applicable

18 hours lecture

54 hours lab

Corequisite: AGLI 16 or AGLI 18 (may have been taken previously) or equivalent experience with horses.

Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading.

■ AGLI 30 — Beef Production

3 Units
Degree Applicable, CSU

36 hours lecture

54 hours lab

Principles and practices in the selection and management of feeder, market, and breeding beef cattle. Economics of production, retail product, utilization of farm-grown feeds, and feedlot operation.

■ AGLI 34 — Livestock Judging and Selection 2 Units

Degree Applicable, CSU, UC

18 hours lecture

54 hours lab

Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation.

■ AGLI 96 — Animal Sanitation and Disease Control 3 Units Degree Applicable, CSU

54 hours lecture

Prevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmission of infectious diseases, principles of sanitation and fundamentals of immunology.

■ AGLI 97 — Artificial Insemination of Livestock 2 Units

Degree Applicable

18 hours lecture

54 hours lab

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

AGRICULTURE: ORNAMENTAL HORTICULTURE

■ AGOR 1 — Horticultural Science

3 Units Degree Applicable, CSU

54 hours lecture

Basic horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development.

■ AGOR 2 — Plant Propagation/Greenhouse Management 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

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

■ AGOR 4 — Park Management

3 Units

Degree Applicable

54 hours lecture

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

■ AGOR 5 — Park Facilities

3 Units Degree Applicable

54 hours lecture

Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses.

■ AGOR 13 — Landscape Design

3 Units

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Fundamentals and implementation of landscape design. Principles of design, the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Projects emphasize residential and small commercial sites. Field trips and off-campus assignments required.

■ AGOR 14 — Advanced Landscape Design

3 Units
Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: AGOR 13

Computer Assisted Design and Drafting (CAD) with applications for landscape horticultural businesses. Includes applied CAD for plan, detail, elevation, and section drawings with exposure to CAD associated databases and plant selection programs.

■ AGOR 15 — Interior Landscaping

3 Units

Degree Applicable

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

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

■ AGOR 24 — Integrated Pest Management 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

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

■ AGOR 29 — Ornamental Plants - Herbaceous 3 Units Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Identification, growths habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants, groundcovers and vines adapted to climates of California. Plants emphasized will come from the California Association of Nurserymen (CAN) and California Landscape Contractors Association (CLCA) certification test plant lists.

■ AGOR 30 — Ornamental Plants - Trees and Woody Shrubs

Degree Applicable, CSU, UC

3 Units

36 hours lecture

54 hours lab

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

■ AGOR 32 — Landscaping and Nursery Management 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Operation and management of wholesale and retail nurseries. Includes site location and layout of areas; greenhouse management; soil mixes and proper use of fertilizers, insecticides, fungicides, herbicides and growth regulators; irrigation; mechanization; financing; personnel management; retail displays, advertising and customer relationships; federal, state and local laws and regulations. Field trips are required.

■ AGOR 39 — Turf Grass Production and Management 3 Units 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, and commercial and residential lawns. Identification, installation, cultural requirements, and maintenance practices are emphasized. Field trips required.

■ AGOR 40 — Sports Turf Management

3 Units
Degree Applicable

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

36 hours lecture

54 hours lab

Prerequisite: AGOR 39 or equivalent experience

Prepares students to work in the sports turf industry. Emphasizes turf cultural techniques used in sports turf management. Includes turf surfaces used on baseball, football, soccer, tennis, golf courses, driving ranges, and other sports fields in both professional and amateur sports. Field trips required.

■ AGOR 50 — Soil Science and Management 3 Units

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Principles of proper soil management to optimize plant growth, including management of air, water, nutrients and organic matter. Physical and chemical properties of soil that govern soil reactions and interactions. Field trips are required.

■ AGOR 51 — Tractor and Landscape Equipment Operations 3 Units Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Selection, operation, repair and maintenance of power equipment used in the landscape industry. Includes two- and fourwheel drive tractors, skip loaders, skid steer loaders, backhoes, lawnmowers, edgers, weed eaters, blower vacuums, rototillers, chainsaws, spraying equipment and all-terrain vehicles. Laboratory includes use of this equipment.

■ AGOR 52 — Hydraulics

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Operation, maintenance, and repair of hydraulic systems used for agriculture and industrial equipment. Emphasis on pumps, valves, cylinders, flow control, reservoirs, lines, motors, and hydrostatic transmissions.

■ AGOR 53 — Small Engine Repair I

3 Units
Degree Applicable, CSU

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

36 hours lecture

54 hours lab

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

■ AGOR 54 — Small Engine Repair II

3 Units
Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Prerequisite: AGOR53

Advanced repair and maintenance of mid-horsepower gasoline and diesel engines. Multi-cylinder air- and water-cooled engines used in landscape, industrial and agricultural applications. Repair of riding mowers, generator engines, air compressor engines, 2-cycle and 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.

■ AGOR 55 — Diesel Engine Repair

3 Units
Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Repair and maintenance of diesel engines used to power industrial, landscape and agricultural equipment.

■ AGOR 56 — Engine Diagnostics

3 Units

Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Analysis and evaluation of tractor engine power failures with hands-on experience in the proper diagnostic procedures of power equipment. Includes service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries and test equipment.

■ AGOR 57 — Power Train Repair

3 Units

3 Units

Degree Applicable

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

36 hours lecture

54 hours lab

Service, maintenance, and repair of power trains. Includes clutches, transmissions, differentials, power take-off units, and final drives used to transmit power on tractors and other outdoor power equipment.

■ AGOR 62 — Landscape Irrigation - Design and Installation

Degree Applicable, CSU

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

36 hours lecture

54 hours lab

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

■ AGOR 63 — Landscape Irrigation Systems Management 3 Units Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Systematic approach to water conservation in landscapes. 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 evaluation.

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

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

54 hours lab

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

■ AGOR 71 — Landscape Construction Fundamentals 3 Units Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Advisory: Eligibility for ENGL 68

Fundamentals of construction techniques and tools used in landscaping. Students will gain skills in construction projects that include utilities (gas, water, electricity), woodworking, masonry and surveying techniques applied to landscaping.

■ AGOR 72 — Landscape Hardscape Applications 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, barbeques, gazebos, decks, ponds, spas, fountains and pools. Students will gain hands-on experience in the laboratory activities.

■ 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

Landscape laws, contracting, and estimating as they pertain to landscape construction. Information covered will be helpful for the Landscape Contractor?s (C-27 classification) licensing exam administered by the state of California. Off campus assignments required.

■ 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

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

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

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

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

This course is designed to provide majors with actual on-the-job experience at an approved work site using skills and knowledge from classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. This course is available to students achieving advanced standing (minimum 12 units in major or equivalent experience.) Students who repeat this course will improve skills through further instruction and practice.

AGRICULTURE: PET SCIENCE

■ AGPE 70 — Pet Shop Management

3 Units Degree Applicable

54 hours lecture

The pet industry, pet shop operations and the economic aspects of the retail/wholesale pet business. Includes organization and operation of pet shops, animal care practices, and sound business management practices.

■ AGPE 71 — Canine Management

3 Units Degree Applicable

36 hours lecture

54 hours lab

Selection, feeding, housing, breeding and management of dogs, including commercial aspects of the dog as a domestic pet. Laboratory work will include practical experience in the handling and training of dogs. May include field trips.

■ AGPE 72 — Feline Management

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68

Care and management of cats. Includes breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding, and housing.

■ AGPE 73 — Tropical and Coldwater Fish Management 2 Units Degree Applicable

36 hours lecture

Advisory: Eligibility for ENGL 68

Care and keeping of marine and freshwater aquarium fishes. plants, and invertebrates. Includes guidance on setting up aquariums, choosing compatible species, feeding, health care, breeding and raising fish.

■ AGPE 74 — Reptile Management

2 Units Degree Applicable

36 hours lecture

Advisory: Eliaibility for ENGL 68

Care and maintenance of reptiles and amphibians, including snakes, lizards, turtles, tortoises, newts, salamanders and frogs. Identification and characteristics of reptiles commonly kept as pets. Housing, feeding, health maintenance, breeding and raising of reptiles.

■ AGPE 76 — Aviculture - Cage and Aviary Birds

Degree Applicable

3 Units

54 hours lecture

Presents cage and aviary birds marketed in the wholesale and retail pet trade, including identification, nutrition, breeding. disease prevention and control, aviary construction and providing the proper environment. Includes information on psittacines, soft bills, finches, game birds, poultry and ornamental waterfowl.

AIR CONDITIONING AND REFRIGERATION

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

2 Units

Degree Applicable

27 hours lecture

27 hours lab

Develops mathematical skills required for the study and application of air conditioning and refrigeration including measurements and equations applied to heat loads, air distribution, electricity, and the design of air conditioning and refrigeration equipment.

■ AIRC 11 — Welding for Air Conditioning and Refrigeration

2 Units

Degree Applicable

18 hours lecture

54 hours lab

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

■ AIRC 12 — Air Conditioning Codes and Standards 3 Units Degree Applicable

54 hours lecture

Building codes and standards as they apply to the air conditioning and refrigeration industry. Develops skills necessary to read and interpret building codes and resolve installation and service problems as they apply to the construction industry.

■ AIRC 20 — Refrigeration Fundamentals

4 Units Degree Applicable

48 hours lecture

71 hours lab

Principles of mechanical refrigeration based on the refrigeration cycle and associated mechanical components. Develops skills for interpreting service gauge pressures and sensible temperatures, system dehydration techniques, and the safe handling and containment of refrigerants.

■ AIRC 25 — Electrical Fundamentals for Air Conditioning and Refrigeration

5 Units

Degree Applicable

66 hours lecture

54 hours lab

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

■ AIRC 26 — Gas Heating Fundamentals

2 Units

Degree Applicable

36 hours lecture

Advisory: AIRC 12 and AIRC 25

Theory, operation, and application of natural gas and propane heating systems used in residential and light commercial heating installations including the properties of fuel gasses, gas combustion, furnace construction, pilot proving devices and ignition systems.

■ AIRC 30 — Heat Load Calculations and Design 4 Units

Degree Applicable

72 hours lecture

Advisory: AIRC 20 taken prior

Heat loss and heat gain will be examined, developed and applied to residential dwellings air conditioning systems. Equipment sizing, selection and duct design based on the Heat Load of the structure. Heat Load calculation software will be explored and used to aid in the process.

■ AIRC 31 — Commercial Electrical for Air Conditioning and Refrigeration

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: AIRC 25 taken prior

Electrical control of commercial air conditioning and refrigeration equipment emphasizing time clocks, defrost, three phase transformers, three phase motors, timers, sequencers, starting methods and troubleshooting of three phase systems.

■ AIRC 32A — Air Properties and Measurement 1.5 Units Degree Applicable

27 hours lecture

Advisory: AIRC 20, AIRC 30 taken prior

Investigates the air-side operating theory and application of comfort cooling systems. This course will broaden the student's understanding of air conditioning systems by addressing psychrometrics to include the measurement of dry bulb and wet bulb temperatures, relative humidity, dew point temperatures, and sensible and latent heat processes.

■ AIRC 34 — Advanced Mechanical Refrigeration 4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: AIRC 31, AIRC 32A, AIRC 32B taken prior

Advanced principles of mechanical air conditioning and refrigeration based on operating characteristics of working equipment and the interpretation of the pressure-enthalpy chart. Advanced technical aspects of mechanical components will be explored to include compressors, metering devices, pressure regulators, capacity controls, and defrost methods.

■ AIRC 61 — Building Automation Fundamentals 2.5 Units Degree Applicable

36 hours lecture

27 hours lab

Advisories: AIRC 20, AIRC 25, AIRC 34

Basics of commercial HVAC control theory as it applies to electric, pneumatic, and digital control systems. Principles of chiller plant operation, air distribution, Variable Air Volume, constant air systems, and multizone systems.

■ AIRC 63 — Building Control Networks

3 Units Degree Applicable

54 hours lecture

Advisory: CISN 11

Building Control Network implementations and protocol standards including web based applications, BACnet, Ethernet, LonTalk, and proprietary systems. Routers, installation, and troubleshooting will also be studied.

■ AIRC 65 — Building Automation Networks and Programming

3 Units

Degree Applicable

18 hours lecture

108 hours lab

Programming HVAC direct digital controllers using line (text) programming, icon based programming, and template programming. Stresses good programming practices including complete program documentation.

■ AIRC 67 — Energy Management

4 Units

Degree Applicable

72 hours lecture

Advisories: AIRC 34, AIRC 61, AIRC 63, AIRC 65

Principles and practical applications for energy cost reduction and strategies. Emphasis on the use of Building Automation Systems to achieve control over energy costs. Includes theory for sustainable Green Building Technologies with introduction to Energy Star Buildings and LEED programs.

■ 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

This course is designed to combine actual job experience in air conditioning and refrigeration with related classroom instruction. This work experience may be during a regular semester or during a summer session. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

AIR TRAFFIC CONTROL

■ AIRT 41 — Aircraft Recognition and Performance 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23

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.

■ AIRT 42A — Terminal Air Traffic Control

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23 and AIRT 41

Designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA). Students will learn about aircraft operation in the National Airspace System, control tower operations, terminal radar control, radio communication techniques and phraseology, and responding to emergencies.

■ AIRT 42B — Enroute Air Traffic Control

3 Units
Degree Applicable, CSU

3 Units

54 hours lecture

Advisory: AERO 23 and AIRT 41

Enroute air traffic control operations in the National Airspace System. Includes radar and non-radar separation rules, enroute air traffic control clearances, emergencies and search and rescue, and future air traffic control technologies. This course is designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA).

■ AIRT 43 — Air Traffic Control Team Skills

1.5 Units

Degree Applicable, CSU

27 hours lecture Advisory: AIRT 42

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

■ AIRT 47 — Work Experience in Air Traffic Control 1 Unit

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 hours lab

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

On-the-job experience in an approved FAA work station. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

■ AIRT 51 — Air Traffic Control Laboratory

Degree Applicable

54 hours lab

Advisory: AERO 23, AERO 26, AERO 29

Concepts, procedures, and skills related to air traffic control. Microphone technique, voice control, phraseology, facility and interfacility coordination, strip markings, airport traffic control, weather observing, and control tower functions.

■ AIRT 55 — Terminal Radar Approach Control Laboratory 1 Unit Degree Applicable

(May be taken four times for credit)

54 hours lab

Advisory: AIRT 51 and AERO 30 taken prior or concurrently

Simulation of a radar approach control facility concentrating on approach and departure procedures using appropriate phraseology, flight progress strip markings and radar separation standards. Students who repeat this course will improve skills through further instruction and practice.

AIRCRAFT MAINTENANCE TECHNOLOGY

■ AIRM 65A — Aircraft Powerplant Maintenance 13 Units Technology

Degree Applicable, CSU

108 hours lecture

376 hours lab

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

■ AIRM 65B — Aircraft Powerplant Maintenance 13 Units Technology

Degree Applicable, CSU

108 hours lecture

376 hours lab

Reciprocating and turbine engine systems and components.

Approved and required for the FAA powerplant certification and

Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 66A — Airframe Maintenance Technology 13 Units Degree Applicable, CSU

108 hours lecture

376 hours lab

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

■ AIRM 66B — Airframe Maintenance Technology 13 Units Degree Applicable, CSU

108 hours lecture

1 Unit 376 hours lab

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

■ AIRM 70A — Aircraft Maintenance Electricity

Degree Applicable

3 Units

36 hours lecture

72 hours lab

Advisory: AIRM 71

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

■ AIRM 70B — Aircraft Maintenance Electricity and Electronics

Degree Applicable

3 Units

36 hours lecture

72 hours lab

Advisory: AIRM 72, AIRM 73 (May be taken concurrently)

Basic principles of alternating current, terminology, units and circuit arrangements, alternators, inverters and related controls, derating of switches and circuit breakers, capacitors, inductors, transistors, cathode ray tubes, digital electronics, microprocessors, computers, power distribution systems for large aircraft. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 71 — Aviation Maintenance Science

6 Units
Degree Applicable

108 hours lecture

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

■ AIRM 72 — Aviation Materials and Processes 1.5 Units

Degree Applicable

18 hours lecture

36 hours lab

Advisory: AIRM 70B, AIRM 73

An FAA approved course covering aviation materials, nondestructive testing, basic heat-treating and an introduction to machine tool operation.

■ AIRM 73 — Aviation Welding

1.5 Units

Degree Applicable

18 hours lecture

36 hours lab

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

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

■ AIRM 74 — Aircraft Maintenance Technology 2 Units - Work Experience

Degree Applicable

(May be taken for Pass/No Pass only)

90 hours lab

Prerequisite: AIRM 65A and AIRM 65B or AIRM 66A and AIRM 66B

Combines aircraft maintenance experience in addition to classroom instruction for college credit. Two units of credit will be earned as a result of 120 unpaid or 150 paid work hours. The employer/evaluator will have the student perform aircraft maintenance work under direct supervision at a maintenance facility.

■ AIRM 80 — Lab Studies in Aircraft Maintenance Technology

Degree Applicable

.5 to 1 Unit

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

27 to 54 hours lab

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

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

■ AIRM 90A — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

72 hours lab

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

A FAA approved course covering aircraft flight, flight control and construction methods and procedures.

■ AIRM 90B — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

71 hours lab

Aircraft structural designs, station numbers, aviation nomenclature and definitions. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major and FAA certification.

■ AIRM 91A — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

72 hours lab

Aircraft wood structures, their coverings, finishes, and maintenance. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 91B — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

71 hours lab

Metals and composite materials used in aircraft construction, maintenance, and repair. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 92A — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

71 hours lab

Aircraft hydraulic and pneumatic power systems, landing gear and wheel and brake systems. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Power Plant Maintenance Technology major.

■ AIRM 92B — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
Aircraft warning systems, aircraft instrument systems and aircraft fuel storage and transfer systems. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major.

■ AIRM 93A — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
A FAA aproved course coveing aircraft cabin heating and cooling, communication and navigation systems, and ice and rain control systems in small and large aircraft.

■ AIRM 93B — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
Aircraft fire detection and suppression systems. Aircraft inspection requirements and procedures. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 95A — Aircraft Powerplant Maintenance 3 Units Technology

Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 A FAA approved course covering piston powerplant theory. Includes calculations and construction methods.

■ AIRM 95B — Aircraft Powerplant Maintenance 3 Units Technology

Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
A FAA approved course covering piston engine overhaul, inspection, and troubleshooting procedures.

■ AIRM 96A — Aircraft Powerplant Maintenance 3 Units Technology

Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
Aircraft turbine engine history, construction, thrust formulas and turbine engine types. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major.Required for FAA certification.

■ AIRM 96B — Aircraft Powerplant Maintenance 3 Units Technology

Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
Propeller theory, nomenclature, application, constant speed devices, and propeller controls. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. Required for FAA certification.

■ AIRM 97A — Aircraft Powerplant Maintenance 3 Units Technology

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 detection/suppression systems used in small and large aircraft. Includes engine starting systems and electrical power generating devices.

■ AIRM 97B — Aircraft Powerplant Maintenance 3 Units Technology

Degree Applicable

36 hours lecture

72 hours lab

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

■ AIRM 98A — Aircraft Powerplant Maintenance 3 Units Technology

Degree Applicable

36 hours lecture

72 hours lab

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

■ AIRM 98B — Aircraft Powerplant Maintenance 3 Units **Technology**

Degree Applicable

36 hours lecture

72 hours lab

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

ALCOHOL DRUG COUNSELING

■ AD 1 — Alcohol/Drug Dependency

3 Units Degree Applicable, CSU

54 hours lecture

Presents an overview of alcohol and chemical dependencies and ramifications. Explores the impact these dependencies have upon the individual's social, psychological, economic, physiological well-being, community and family concerns. Examines the "myths," images, and stereotypes about substances and substance abusers. Includes familiarization with terms.

■ AD 2 — Physiological Effects of Alcohol/Drugs 3 Units Degree Applicable, CSU

54 hours lecture

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

■ AD 3 — Chemical Dependency: Intervention. 3 Units Treatment and Recovery

Degree Applicable, CSU

54 hours lecture

Examines and analyzes the tools and techniques necessary in moving the chemically dependent individual into the treatment process; the varying types of treatment programs, and the essentials of effective recovery.

■ AD 4 — Issues in Domestic Violence

3 Units Degree Applicable

54 hours lecture

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

■ AD 5 — Chemical Dependency: Prevention 1.5 Units and Education

Degree Applicable, CSU

27 hours lecture

Reviews and examines drug prevention effectiveness, at both the private and public level. Appraises personal attitudes, past and present, and their influence on societal norms. Evaluates current prevention programs and the necessary steps for developing. funding and managing a program.

■ AD 6 — Dual Diagnosis

3 Units Degree Applicable, CSU

54 hours lecture

Overview of the complex interactions of mental disorders and chemical dependency. Reviews and examines the key areas involving dual diagnosis: definition, diagnosis, treatment and aftercare.

■ AD 8 — Group Process and Leadership

3 Units Degree Applicable

54 hours lecture

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

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

■ AD 9 — Family Counseling

3 Units Degree Applicable

54 hours lecture

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

Introduces the theory and practice of family counseling. Topics include, family systems and dynamics, effects of chemical dependency, and counseling techniques.

1.5 Units ■ AD 10 — Client Record and Documentation Degree Applicable

27 hours lecture

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

Identify documentation methods required by government regulatory bodies in clinical records. Emphasis on biopsychosocial history.

■ AD 11 — Techniques of Intervention and Referral 3 Units Degree Applicable

54 hours lecture

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

Practice techniques used for crisis intervention, counseling, intake and referral. Experiential format, allows participants to practice skills in attentive listening, and responding to levels of client communication.

■ AD 13 — Internship/Seminar

4 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

27 hours lecture

126 hours lab

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

The first of a two-semester sequence which places students in Alcohol/Drug Abuse agencies and organizations. This first semester emphasizes growth in self-awareness and professionalism, interviewing skills and group process skills.

■ AD 14 — Advanced Internship/Seminar

4 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

27 hours lecture

126 hours lab

Advisory: AD 10 and AD 13

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

AMERICAN LANGUAGE

■ AMLA 21S — Accent Reduction

2 Units

Not Degree Applicable

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

36 hours lecture

Pronunciation and listening for non-native speakers with emphasis on analysis of individual strengths and weaknesses. Focus on improving articulation, stress and intonation patterns, and listening.

■ AMLA 22S — American Language 2 Units Interpersonal Communication

Not Degree Applicable

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

Enhances ability of non-native speakers to communicate in personal and academic situations. Emphasis on grammatical accuracy and sophistication as well as confidence in communications.

■ AMLA 23S — American Language Formal Speaking 2 Units Not Degree Applicable

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

Advisory: Eliaibility for AMLA 41W

Enhances the ability of non-native speakers to listen effectively and speak formally in a variety of situations. Emphasis is on notetaking, outlining, organizing speeches, and verbal articulation of ideas.

■ AMLA 24 — Idiomatic English

2 Units

Not Degree Applicable

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

Advisory: Eligibility for AMLA 42W

Intermediate course in the study of idiomatic language, including common American idioms and proverbs, as used in everyday language situations.

■ AMLA 31R — American Language Basic Reading 4 Units Not Degree Applicable

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

Prerequisite: Satisfactory score on appropriate Reading Placement Test or successful completion of noncredit ESL Level 4

Basic reading and vocabulary for non-native speakers.

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

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

Prerequisite: Successful completion of AMLA 31R, or satisfactory score on appropriate Reading Placement Test, or successful completion of noncredit ESL levels 5, 6, or VESL

Intermediate reading and vocabulary for non-native speakers.

■ AMLA 33R — American Language Advanced Reading 4 Units Degree Applicable

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

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

Advanced reading and vocabulary for non-native speakers.

■ AMLA 41W — American Language Basic Writing 4 Units Not Degree Applicable

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

Prerequisite: Satisfactory score on the English Placement Test or successful completion of noncredit ESL Level 4

Advisory: AMLA 31R taken prior or concurrently
Basic grammar and writing for non-native speakers.

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

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

Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 41W or noncredit ESL level 5 or 6 or VESL

Advisory: AMLA 32R taken prior or concurrently Intermediate grammar and writing for non-native speakers.

■ AMLA 43W — American Language Advanced Writing 4 Units Not Degree Applicable

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

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

Advisory: AMLA 33R taken prior or concurrently

Advanced grammar and writing for non-native speakers.

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

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

Concentrates on count and non-count nouns, article usage and other determiners for non-native learners of English. Writing practice and exercises will emphasize correct usage of these structures in writing and speaking.

■ AMLA 57 — American Language Verb Review I 1 Unit Not Degree Applicable

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

Concentrates on verb tense, form, and use for non-native learners of English. Practice in present, past, and future verb tense forms, meaning, and use in both spoken and written English, with special emphasis on writing for college courses.

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

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

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

■ AMLA 59 — American Language Prepositions 1 Unit Not Degree Applicable

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

Spoken and written practice in prepositions for non-native English learners. Students will analyze prepositions and idiomatic expressions through reading and will apply their knowledge to written work.

■ AMLA 60 — American Language Verb Review III 1 Unit Not Degree Applicable

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

Advanced work on gerunds, infinitives and participles for nonnative English students. Exercises and writing practice will emphasize 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 forms for non-native English students.

ANATOMY AND PHYSIOLOGY

■ ANAT 10A — Introductory Human Anatomy 4 Units Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

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

■ ANAT 10B — Introductory Human Physiology 4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: ANAT 10A or ANAT 35

Advisory: CHEM 10 or CHEM 40

An integrated study of the function of and interaction between the skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory (including electrolyte and acid-base balance), endocrine, and reproductive systems (including human genetics and embryology).

■ ANAT 35 — Human Anatomy

5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: BIOL 1 or BIOL 4 or BIOL 4H

Structure of the organ systems at the gross, subgross, and microscopic levels based on human material and dissection of the cat. Designed to serve as an introduction to vertebrate embryology.

■ ANAT 36 — Human Physiology

5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: ANAT 35, and CHEM 10 or CHEM 40

Extensive study of human physiology at the cellular and molecular levels covering muscular, nervous, circulatory, respiratory, renal, digestive, endocrine, and reproductive systems. Includes regulation and integration of organ systems where appropriate.

■ ANAT 40A — Human Prosection

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

108 hours lab

Prereauisite: ANAT 35

Techniques for human prosection. Regional exploration of superficial and deep human muscles at the gross level. Anatomy 40A and 40B must be taken in sequence in order to receive credit for college level prosection.

■ ANAT 40B — Human Prosection

2 Units Degree Applicable, CSU

108 hours lab

Prerequisite: ANAT 40A

Techniques for human prosection. Regional exploration of the human organ systems at the gross level with emphasis on the organs, blood vessels and nerves of the body cavities.

■ ANAT 50 — Basic Anatomy and Physiology

3 Units

Degree Applicable

54 hours lecture

Introduction to human anatomy and physiology by systems, with brief descriptions of biochemistry, cell biology, and molecular biology. Upon completion, students will understand normal functions of major human organ systems and be able to recognize pathologies.

ANTHROPOLOGY

■ ANTH 1 — Biological Anthropology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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

■ ANTH 1H — Biological Anthropology - Honors

3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

The evolutionary biology of primates with particular emphasis on homonid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid palentological record are stressed. This enriched course is designed for the honors program allowing, for example, more student directed discussions and more extensive writing assignments. Students may not receive credit for both ANTH 1 and ANTH 1H.

■ ANTH 1L — Biological Anthropology Laboratory 1 Unit

Degree Applicable, CSU, UC

54 hours lab

Corequisite: ANTH 1 or ANTH 1H (may have been taken previously) Scientific study of human evolution. Students will generate and test hypotheses using the techniques and materials of biological anthropology. Includes genetic observations and calculations, osteological techniques and measurements, and primate behavior observations. One field trip to a zoo for primate observation is reauired.

■ ANTH 3 — Archaeology

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Introduction to the aims, methods and ethics of archaeological research and their application to the archaeological record, in contrast to popular depictions of archaeology. Topics include the evolution of culture from the earliest stone toolmakers to the primary civilizations of the Old and New Worlds, with emphasis on the invention and spread of agriculture and the impact of this change on prehistoric cultures.

■ ANTH 5 — Principles of Cultural Anthropology 3 Units Degree Applicable, CSU, UC

54 hours lecture

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

■ ANTH 22 — General Cultural Anthropology 3 Units Degree Applicable, CSU, UC

54 hours lecture

An introductory course to explore the nature of culture and how cultural anthropologists study cultural phenomena such as language, personality, subsistence, economics, social and political organization, marriage, kinship systems, religion, the arts, and culture change. A substantial amount of case material will be drawn from at least three of the following: African Americans. indigenous peoples of the United States, Asian Americans, Chicano/Latino Americans, and European Americans. This course may meet the cultural diversity requirement at transfer universities.

■ ANTH 30 — The Native American 3 Units Degree Applicable, CSU, UC

54 hours lecture

Surveys the prehistory and history of Native Americans, An overview of the classification system used to organize particular groups into culture areas related to adaptive strategies. Identification of world contributions and contemporary issues for modern Native Americans.

■ ANTH 99 — Special Projects in Anthropology 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

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

ARABIC

■ ARAB 1 — Elementary Arabic

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Intended for students with little or no previous exposure to Arabic. Begins to develop elementary reading, writing, and speaking skills in Modern Standard Arabic, Focuses on mastery of Arabic script, pronunciation, simple grammatical structures, and basic vocabulary, along with an introduction to Arab culture.

■ ARAB 2 — Continuing Elementary Arabic 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: ARAB 1 or equivalent

Continues to develop elementary reading, writing, and speaking skills in Modern Standard Arabic. Emphasizes verbs, word patterns, and vocabulary building; introduces short authentic texts. Includes some exposure to Formal Spoken Arabic.

ARCHITECTURAL TECHNOLOGY

■ ARCH 10 — Design I - Elements of Design 3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

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

■ ARCH 11 — Architectural Drawing

3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Advisory: Eligibility for MATH 51

Architectural drawing techniques, including graphic standards, scales, orthographic, paraline, and perspective projections.

■ ARCH 12 — Architectural Materials and Specifications 4 Units Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: Eligibility for MATH 51

Building materials and specifications used in architecture and construction. Includes a lab component of common building material applications. Field trips are required.

■ ARCH 13 — Architectural Illustration

3 Units

Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Advisory: ARCH 11

Architectural and interior illustration including perspective drawing, sketching, shades and shadows, entourage, and color application utilizing various media and development of project portfolio.

■ ARCH 14 — Building and Zoning Codes

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: ARCH 11

Building and zoning codes, including code requirements related to architectural design and construction documentation. Process of obtaining design approvals and building permits from proper authorities having jurisdiction.

■ ARCH 15 — Architectural Working Drawings - I 3 Units

Degree Applicable, CSU

36 hours lecture

72 hours lab

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

■ ARCH 16 — Basic CAD and Computer Application 4 Units Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: Eligibility for MATH 51

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

■ ARCH 18 — Architectural CAD and BIM

I 3 Units
Degree Applicable, CSU

36 hours lecture

71 hours lab

Advisory: ARCH 11 or ARCH 16

3-D Computer Aided Design and Drafting (CAD) and Building Information Modeling (BIM) for architectural design and design development. Portfolio of 3-D building models and extracted 2-D drawings will be produced.

■ ARCH 21 — Design II - Architectural Design 3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Advisory: ARCH 10, ARCH 11, ARCH 13

Application of methods and theory used in architectural design projects. Includes graphic technique, design process, site analysis, presentation drawings and construction principles. Portfolio will be produced.

■ ARCH 23 — Architectural Presentations

Degree Applicable, CSU, UC

3 Units

36 hours lecture

72 hours lab

Advisory: ARCH 10, ARCH 11 taken prior

Analysis and preparation of architectural presentation projects, including schematic and final design, architectural models, oral presentation techniques, board layouts using hand-drawn and computer-aided techniques, and development of project portfolio.

■ ARCH 26 — Architectural CAD Working Drawings 3 Units Degree Applicable

36 hours lecture

72 hours lab

Advisory: ARCH 15, ARCH 18 or equivalent experience
Advanced architectural CAD drawings. Portfolio of working
drawing and presentation applications of integrated 2-D and 3-D
CAD models will be produced.

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

36 hours lecture

72 hours lab

Advisory: ARCH 21, ARCH 23 or equivalent experience

Application of theory and principles of environmental design as applied to architecture, landscape architecture, urban design, urban planning and (civil) engineering. Portfolio will be produced.

■ ARCH 28 — Architectural CAD Illustration and Animation 3 Units Degree Applicable, CSU

36 hours lecture

71 hours lab

Advisory: ARCH 18

Architectural CAD 3-D illustration, rendering and animation. Virtual walk-through and fly-through videos of interior and exterior 3-D models with photo-realistic materials and lighting will be produced.

■ ARCH 29 — Design IV - Advanced Project

ect 3 Units Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: ARCH 23, ARCH 27 or equivalent experience

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

■ ARCH 31 — World Architecture I

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Development of architecture including ancient Egypt, Europe through the Middle Ages, and classic civilizations of Asia and the Americas. Influence of geography, religion, and socio-economic movements on architecture.

■ ARCH 32 — World Architecture II

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Development of modern architecture from the Renaissance to the present day. Influence of environment, religion and socio-economic movements on architecture.

■ ARCH 89 — Architectural Work Experience

1 to 2 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 150 hours lab

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

This course is designed to provide actual on-the-job experience in architecture at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving a minimum of 12 units in architecture. Students who repeat this course will improve skills through further instruction and practice.

ART: ANIMATION

■ ANIM 101A — Drawing - Gesture and Figure 3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Contemporary and traditional approaches to sketching objects and the human figure using drawing techniques for rapid visualization. Emphasizes and develops perceptual and technical skills for capturing basic visual mechanics of motion and gesture.

■ ANIM 101B — Figure Gesture - Design

3 Units

Degree Applicable

36 hours lecture 71 hours lab

Prerequisite: ANIM 101A (formerly ANIM 101)

Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops elements of design for the purposes of visual communication and storytelling.

■ ANIM 101C — Figure Gesture - Design

3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 101A

Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops personal interpretation, individual expression, and media exploration.

■ ANIM 104 — Drawing Fundamentals

3 Units

Degree Applicable, CSU

36 hours lecture

72 hours lab

Emphasizes creative expression through the use of drawing media and techniques. Emphasis is placed on use of light logic, atmospheric and linear perspective. Includes basic drawing skills and methods of achieving compositional integrity through objective analysis and synthesis.

■ ANIM 107 — Figure in Motion

3 Units

Degree Applicable

(May be taken four times for credit)

36 hours lecture

72 hours lab

Prerequisite: ANIM 101A

Drawing human figures in motion. Anatomical landmarks, proportion, light and shadow, line composition, figure/ground relationship, the interaction of form and content, and the expressive potential of the human figure will be explored. Students who repeat this course will improve skills through further instruction and practice.

■ ANIM 108 — Principles of Animation

Degree Applicable, CSU

3 Units

36 hours lecture

71 hours lab

Principles of drawing for traditional animation concentrating on the mechanics of movement, timing, and emotion for the creation of expressive line drawings.

■ ANIM 109 — Advanced Principles of Animation 3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 108

Advanced principles of animation including mechanics of motion, weighted movement, lip sync and expression applied to story, staging, and character development. Focus will be on the animated film process from script to storyboards, timing sheets, key posing, inbetweening and clean up through the completion of a final animation.

■ ANIM 111A — Animal Drawing

1.5 Units

Degree Applicable

18 hours lecture

36 hours lab

Prerequisite: ARTD 15A or ANIM 104

Explores traditional and contemporary approaches to sketching and drawing animals. Gesture, anatomical structure, proportion, line and action analysis will be explored. Requires sevearl off-campus field trips.

■ ANIM 111B — Animal Drawing

1.5 Units

Degree Applicable

18 hours lecture

36 hours lab

Prerequisite: ANIM 111A

Contemporary and traditional approaches to sketching animals using drawing techniques for rapid visualization. Emphasizes and develops elements of design for the purposes of visual communication and storytelling Requires several off-campus field trips.

■ ANIM 115 — Storyboarding

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A or ANIM 104

Storyboarding with emphasis on storytelling, cinematography, drawing, and notation as it relates to the animation industry.

■ ANIM 116 — Character Development

1.5 Units

Not Degree Applicable

18 hours lecture

36 hours lab

Prerequisite: ARTD 15A or ANIM 104

Drawing and development of characters for animation. Observation of details for character attitude, personality, movement, posing, dialogue, mouth positions, body language, and consistent drawing techniques for model sheets will be explored.

■ ANIM 117 — Animation Background Layout

yout 3 Units
Degree Applicable, CSU

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A or ANIM 104

Principles of design, composition and story as applied to layout and background creation for animation. Industry appropriate drawing and painting techniques exploring rendering, modeling, light logic, perspective, color, space and environments are included.

■ ANIM 118 — Background Painting

3 Units
Degree Applicable

36 hours lecture

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72 hours lab

Analysis and production of environments for scenes in animation. Emphasis on the study of light logic and color as they pertain to the creation of atmosphere, mood and environments.

■ ANIM 120 — Script Development for Animation 3 Units

Degree Applicable

54 hours lecture

Creative and problem solving processes as applied to story and script development. Scripts screenplays, live action and animated film, and the practical application of story adaptation to screenplay.

■ ANIM 121 — Nature and History of Animation 3 Units

Degree Applicable, CSU

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

54 hours lecture

History of animated film and its relationship to the disciplines of art, communication, theater, music, literature, film making, philosophy, and world history. Includes early pioneers through current visionaries, social influences that affected the development of animated film and the social impact of the animated product, and the differences between live action film and inanimate, nonliving objects in a variety of forms such as two-dimensional, clay, or computer created.

■ ANIM 130 — Introduction to 3-D Computer Animation 3 Units Degree Applicable, CSU

36 hours lecture

71 hours lab

3-D animation covering modeling, lighting, and rendering using Maya software.

■ ANIM 131 — Introduction to Gaming

3 Units

Degree Applicable, CSU, UC

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

36 hours lecture

71 hours lab

Prerequisite: GRAP 10 or ARTC 100 or ARTC 70

The field of game design including the principles, tools, and strategies for designing various types of games.

■ ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 130

3D polygon modeling and UV polygon texture mapping used in computer graphic games, TV programs or film. Includes camera animation with stage and environmental scenes featuring flythrough, lighting setup and lighting visual effects. Software used is Autodesk Maya.

■ ANIM 136 — Animation Environment Layout

3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 130 and ANIM 132

Create a digital 3D environment. Design, model, texture, and light a 3D digital environment for a computer graphics game, TV program or film.

■ ANIM 137A — Work Experience in New Digital Media 1 to 3 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 225 hours lab

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.

■ ANIM 145 — Advanced 3-D Modeling

3 Units
Degree Applicable

36 hours lecture

72 hours lab

Advisorv: ANIM 132

An advanced course in 3-D modeling with a focus on designing, modeling, and rigging a character for animation.

■ ANIM 146 — Advanced 3-D Animation

3 Units
Degree Applicable

36 hours lecture

72 hours lab

Advisory: ANIM 132

Animation of a pre-selected 3-D dynamic environment project and development of characteristics and personality of 3-D characters through animation.

■ ANIM 148 — Demo-Reel

1.5 Units

Degree Applicable

18 hours lecture

36 hours lab

Prerequisite: ANIM 130

Production of a demo-reel representative of student interest, strength and skill for entry into animation fields, professional schools or baccalaureate institutions.

■ ANIM 167 — Visual Development

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Prerequisite: ARTC 163 or (ANIM 101A AND ARTD 16)

Development of visual concepts and storytelling for entertainment illustration through use of value, design, color and composition as symbolic tools for communication. Students cannot receive credit for both ARTC 167 and ANIM 167.

■ ANIM 172 — Motion Graphics, Compositing 3 Units and Visual Effects

Degree Applicable, CSU

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

36 hours lecture

71 hours lab

Prerequisite: ARTC 70

Elements of motion graphics: design, typography, animation, compositing, visual effects, and editing in a production environment (i.e. TV, Film, DVD, or Web) using industry standard software.

■ ANIM 175 — Web Animation With Flash

3 Units
Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ARTC 70 or ARTC 100

Principles of animation using Adobe Flash for web and multimedia

ART: BASIC STUDIO ARTS

■ ARTB 1 — Understanding the Visual Arts 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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

■ ARTB 14 — Basic Studio Arts

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Prerequisite: Eligibility for ENGL 68

An entry level course designed for non-art majors emphasizing creative expression through the visual arts. Painting, drawing, printmaking and sculpture are explored to introduce the student through various media to the arts.

ART: GALLERY AND PROFESSIONAL PRACTICES

■ ARTG 20 — Art, Artists and Society

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Art and artists studied through class lectures and required field trips. Public art display and exhibition design, with an overview of art movements, styles, symbols, theories and terms.

■ ARTG 21A — Introduction to Exhibition Production 3 Units Degree Applicable, CSU

36 hours lecture 71 hours lab

Prerequisite: ARTG 20

Concepts and hands-on applications of curatorial processes, management skills, and gallery operations. The professional side of the arts with emphasis on contemporary art, theories and media will be explored. Field trips required.

■ ARTG 21B — Intermediate Exhibition Production 3 Units Degree Applicable, CSU

36 hours lecture 71 hours lab

Prerequisite: ARTG 21A

Exhibition planning, research, operation and management. Art as a profession, with emphasis on historical and contemporary terms, theories, movements and media in the context of an art exhibition production. Field trips required.

■ ARTG 22A — Exhibition Design and Art Gallery 1 to 3 Units Operation Work Experience

Degree Applicable

(May be taken four times for credit)

75 to 225 hours lab Prerequisite: ARTG 21B

Provides on-the-job experience in exhibition design and art gallery operation at an approved work site related to the classroombased learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

ART: GRAPHIC DESIGN AND ILLUSTRATION

■ ARTC 100 — Graphic Design I

3 Units

Degree Applicable, CSU

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

36 hours lecture

71 hours lab

Advisory: ARTD 15A, ARTD 20, or PHOT 4

Contemporary graphic design for the commercial arts industry. Covers technology, creativity, design, and production. Focuses on using Adobe Photoshop to produce effective commercial art. Additional exposure to Adobe Illustrator and other professional production tools.

■ ARTC 120 — Graphic Design II

3 Units

Degree Applicable, CSU

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

36 hours lecture

71 hours lab

Prerequisite: ARTC 70 or ARTC 100

Graphic design concepts, theories, and strategies for the design and layout of printed commercial art. Covers typical printed products including advertisements, flyers, brochures, posters, newsletters, books, and catalogs. Focuses on using Adobe InDesign with additional exposure to Photoshop and Illustrator.

■ ARTC 140 — Graphic Design III

3 Units
Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ARTC 70 or ARTC 100

Digital illustration, design, skills, and concepts working primarily with vector art. Focuses on using Adobe Illustrator as the primary development tool.

■ ARTC 160 — Typography

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Prerequisite: ARTC 100 or ARTC 70

Design and use of basic letterforms, type families, characteristics, history, and principles of typography in graphic design. Traditional and digital skills for the art of typeface design, typographic layout, expressive typography, and conceptual thinking.

■ ARTC 163 — Dynamic Sketching

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A or ANIM 104

Essential tools to conceptualize, communicate, and express creative ideas dynamically through the art of sketching. Emphasis on problem solving through the sketching process for illustrators, animators, entertainment designers, and fine artists.

■ ARTC 165 — Illustration

3 Units Degree Applicable, CSU

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

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A or ANIM 104

Corequisite: ARTD 20 or ARTD 21 or ARTD 17A or ANIM 101A (any

of which may have been taken previously)

Contemporary illustration with an emphasis on story, editorial, and advertising applications. Proper uses of illustrative rendering techniques in traditional drawing and painting media, paper, and their integration to electronic media. Using professional illustration software, peripherals, and color laser printing, students advance to produce more complex illustrations.

■ ARTC 167 — Visual Development

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Prerequisite: ARTC 163 or (ANIM 101A AND ARTD 16)

Development of visual concepts and storytelling for entertainment illustration through use of value, design, color and composition as symbolic tools for communication. Students cannot receive credit for both ARTC 167 and ANIM 167.

■ ARTC 169 — Conceptual Illustration

3 Units
Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A and (ARTD 25A or ARTC 165)

Advisory: ANIM 101A

Development of visual concepts and vocabulary to create unique and provocative editorial illustration interpretations based on social, cultural, and political issues. Exploration of personal style and media with emphasis on contemporary art trends.

■ ARTC 200 — Web Design

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Prerequisite: ARTC 100 or ARTC 70

Design, usability, production, and marketing of web site development using contemporary methods including XHTML, CSS, and contemporary tools including Adobe Dreamweaver and Flash. Web-focused multimedia concepts, including animation and video integration are explored.

■ ARTC 220 — Graphic Design IV

3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ARTC 100 or ARTC 70

AdvisoryARTC 140

Advanced graphic design concepts and skills working with Adobe Photoshop and other graphic design applications.

■ ARTC 240 — Multimedia Design

3 Units

Degree Applicable, CSU

36 hours lecture

71 hours lab

Prereauisite: ARTC 200

Multimedia design and development using a variety of professional software and tools. Focus is on the web as the primary. although not exclusive, delivery channel for multimedia. Covers technical skills including intermediate web design, basic video editing, basic sound editing, and basic animation. Covers creative and conceptual skills including interface design, clarity of communication, and user experience.

■ ARTC 280 — Commercial Art Studio - Special Projects 4 Units Degree Applicable

(May be taken for Pass/No Pass only)

36 hours lecture

108 hours lab

Prerequisite: Completion of a minimum of 15 semester units in Graphic Design, Illustration, Web Design, Animation, Architectural Design, Art, Fashion Merchandising, Industrial Design, Interior Design or Computer Graphics.

Collaborative, interdisciplinary, teams will research, design, produce, and deliver commercial art projects. Projects will be "real world" and complex in scope, typically involving clients from the college or community.

■ ARTC 290 — Portfolio

3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: Completion of a minimum of 15 semester units in one of the following programs: Graphic Design, Illustration, Animation, Web Design, Architectural Design, Art, Fashion Merchandisina, Industrial Design, Interior Design, Photography or Computer Graphics.

Selection, preparation, and assembly of a portfolio, book, or package of works of art, including digital and multimedia formats. that represent individual interests and strengths of students from the visual arts disciplines for use in entering a four-year institution, professional art school, or professional field of choice. Also includes cover letter and resume preparation.

■ ARTC 299 — Graphic Design Internship

1 to 3 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 225 hours lab

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.

ART: SPECIAL STUDIO ARTS

■ ARTZ 50 — Specialized Studio-Art Studies 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

18 hours lecture

54 hours lab

Prerequisite: Satisfactory completion of all courses within a given art emphasis

Extended studio experiences supplementary to those available in the courses within a given art emphasis and allows the student to pursue more advanced and complex studio projects and experiments. Emphasis is placed upon the development of an individual creative direction. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.

ART: THREE DIMENSIONAL STUDIO ARTS

■ ARTS 22 — Design: Three-Dimensional 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 artistic expression utilizing principles and elements of three-dimensional design as well as practical experiments with various media.

■ ARTS 30A — Ceramics: Beginning I

3 Units

Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Clay, glazes and firing through lecture and projects in hand building and on the wheel. Emphasis on developing skills, vocabulary, analysis of form, function and aesthetics through projects, oral and written criticism. Field trip required.

■ ARTS 30B — Ceramics: Beginning II

3 Units

Degree Applicable, CSU, UC

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

36 hours lecture

71 hours lab

Prerequisite: ARTS 30A

Clay, glazes and firing. Emphasis is on repetition of forms, integrating hand building and wheel work for a single object, using up to 5 pounds of clay and developing vocabulary, skill and aesthetics. Field trip required.

■ ARTS 31 — Ceramics: Advanced Studio

2 Units

Degree Applicable

(May be taken four times for credit)

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

108 hours lab

Prerequisite: ARTS 30B

Advanced study of ceramics with emphasis on integrating form and surface with content and developing a personal style. Loading, firing and unloading kilns included. Field trips required.

■ ARTS 33 — Ceramics: Hand Construction 3 Units

Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Clay, glazes and firing through projects that are hand built. Emphasis on developing skills, vocabulary and analysis of form, function, and craftsmanship through projects, discussion, oral and written criticism. Off-campus assignments may be required.

■ ARTS 34 — The Sculptural Vessel

3 Units

Degree Applicable, CSU, UC

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

18 hours lecture

108 hours lab

Prerequisite: ARTS 30A

Advisory: ARTS 33

Advanced study of the ceramic vessel through the integration of technique, form and content. Field trips required.

■ ARTS 40A — Sculpture: Beginning 3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

An overview of traditional and contemporary approaches to sculpture. Emphasizes principles of sculptural design and concept development Includes exploration of technique and materials as an integral part of creative expression.

■ ARTS 40B — Sculpture: Beginning

Degree Applicable, CSU, UC

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

36 hours lecture

71 hours lab

Prereauisite: ARTS 40A

Advanced projects in subtractive, additive and manipulative approaches are explored.

■ ARTS 40C — Sculpture: Carving

3 Units

3 Units

Degree Applicable, CSU, UC

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

36 hours lecture

71 hours lab

Prerequisite: ARTS 40A

Advanced projects in stone or wood carving offering the opportunity to further explore carving using hand, power and pneumatic tools. Emphasis is on individual interpretation.

■ ARTS 41A — Sculpture: Life 3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Modeling from the human figure with emphasis on composition. gesture, motion and human anatomy as it informs sculptural form. Development of perceptual and technical skills in clay modeling from the human figure.

■ ARTS 41B — Sculpture: Life

3 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

36 hours lecture

72 hours lab

Prereauisite: ARTS 41A

Sculptural study of the human figure with emphasis on composition and human anatomy. Advanced projects using materials and techniques suitable for the human form. Students who repeat this course will further develop perceptual skills in clay modeling from the human figure.

■ ARTS 42 — Sculpture: Mold Making

3 Units

Degree Applicable

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

36 hours lecture

71 hours lab

Construction and use of flexible and plaster molds.

■ ARTS 46A — Sculpture: Special Effects Makeup 3 Units Degree Applicable

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

36 hours lecture

71 hours lab

Advisorv: ARTS 42

Modeling, molding, casting of makeup appliances and masks to the human figure.

■ ARTS 46B — Sculpture: Special Effects Makeup 3 Units Degree Applicable

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

36 hours lecture

71 hours lab

Prerequisite: ARTS 46A

Sculpture special effects modeling, molding and casting techniques and materials applied to create appliances for the full human head, torso or mouth.

■ ARTS 99 — Sculpture Special Studies

2 Units Degree Applicable

(May be taken four times for credit)

107 hours lab

Prerequisite: ARTS 22 or ARTS 40A or ARTS 41A

Extended sculpture experiences supplementary to those available in sculpture courses. Allows the student to pursue more advanced and complex sculpture projects with emphasis on the development of an individual creative direction. Content of each course and the methods of study vary from semester to semester. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.

ART: TWO DIMENSIONAL STUDIO ARTS

■ ARTD 15A — Drawing: Beginning

3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

An entry level course emphasizing creative expression through the use of drawing media. Emphasis is placed on basic drawing methods and skills, composition and exploration of drawing media.

■ ARTD 15B — Drawing: Intermediate

3 Units

Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A

Drawing course emphasizing perceptual and technical skills to cmpose in dry and fluid media. Uses the formal elements and principles in black, wite and color in representational and expressionistic styles.

■ ARTD 16 — Drawing: Perspective

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Prerequisite: ARTD 15A or ANIM 104

Drawing using the elements and principles of linear perspective with lights and shadows to represent natural and fabricated forms. Emphasizes methods and techniques directly related to the artist's needs.

■ ARTD 17A — Drawing: Life

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Prerequisite: ARTD 15A or ANIM 104

Explores both contemporary and traditional approaches to sketching/drawing the human figure. Surface anatomy, proportion, line, light and shadow, composition, and the expressive potential of the human figure will be explored.

■ ARTD 17B — Drawing: Life

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Prerequisite: ARTD 17A

Extends and expands the principles and techniques introduced in ARTD 17A. More emphasis is placed on personal interpretation, individual expression, and media exploration.

■ ARTD 19A — Figure Painting

3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ARTD 17A

Painting the draped and nude figure with emphasis on observation and accurate representation. Through poses of various lengths. students will learn to depict the human figure using light logic. color palettes, compositional devices, and painting techniques.

■ ARTD 20 — Design: Two-Dimensional 3 Units

Degree Applicable, CSU, UC

36 hours lecture 71 hours lab

Prerequisite: Eligibility for ENGL 68

Two-dimensional composition in achromatic value and color using the elements and principles of art and design. Emphasis on vocabulary, theory, and analysis of the formal elements and principles as they apply to studio projects in design for all disciplines of the arts. Off-campus assignments may be required.

■ ARTD 21 — Design: Color and Composition 3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Prerequisite: ARTD 20

Color theory and relationships of pigment and light. Emphasis on color harmonies, color matching, the effects of light, color perception and expression in their application to design and composition and as used in all disciplines of the arts.

■ ARTD 23A — Drawing: Head and Hands 1.5 Units Degree Applicable, CSU, UC

18 hours lecture

36 hours lab

Prerequisite: ARTD 15A or ANIM 104

Contemporary and traditional approaches to constructing images of the human head and hands. Anatomy, proportion, light logic, composition, expression and the interaction of form and content.

■ ARTD 23B — Drawing: Advanced Heads and Hands 1.5 Units Degree Applicable

18 hours lecture

36 hours lab

Prereauisite: ARTD 23

Explores contemporary and traditional approaches to drawing the human head and hands. Emphasizes and develops techniques for rendering as well as capturing a likeness.

■ ARTD 23C — Drawing: Expressive Heads and Hands 1.5 Units Degree Applicable

18 hours lecture

36 hours lab

Prereauisite: ARTD 23

Explores contemporary and traditional approaches to sketching the human head and hands. Emphasis is placed on personal interpretation, individual expression, and media exploration.

■ ARTD 25A — Beginning Painting I 3 Units

Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Development of basic paint applications in various styles and subjects focusing on the formal elements of compositoin, light logic, and color.

■ ARTD 25B — Beginning Painting II

3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Prerequisite: ARTD 25A

Creation of large paintings through various styles including mixed media. Includes conceptualization and communication of ideas and solving compositional and technical painting problems with a variety of materials.

■ ARTD 26A — Intermediate Painting I

I **3 Units** Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Prerequisite: ARTD 25B

Creation of large paintings focusing on conceptual issues and art historical influences. Conceptualization of work is done by responding to current and past art movements and popular culture in order to create unique artworks.

■ ARTD 26B — Intermediate Painting II 3 Unit

Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Prerequisite: ARTD 26A

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.

■ ARTD 27 — Painting: Watercolor

3 Units

Degree Applicable, CSU, UC

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

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A or ARTD 20 or ARTD 25A

Basic watercolor techniques as they relate to compositional and technical problems in painting. Emphasis is placed upon painting skills as related to transparent watercolor methods as well as exploration into opaque and mixed-media approaches.

■ ARTD 43A — Introduction to Printmaking 3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Creative techniques in fine art printmaking using relief and intaglio processes. Emphasis is on developing skills, vocabulary and analysis of its aesthetics, historical context, cultural traditions and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required.

■ ARTD 43B — Intermediate Printmaking in Intaglio/Relief 3 Units Degree Applicable, CSU, UC

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

36 hours lecture

71 hours lab

Prerequisite: ARTD 43A

Creation of complex editioned color prints in relief and intaglio printmaking from multiple matrices. Focus is on color registration, project collaboration, and learning how to combine different printing techniques in order to realize personal artistic expression. Field trips may be required.

ARTD 44A — Printmaking: Introduction to Lithography I 3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Creative techniques in planographic printmaking using lithography. Emphasis is on skill development, vocabulary expansion, and critical analysis of aesthetics, historical context, and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required.

■ ARTD 44B — Printmaking: Intermediate Lithography 3 Units Degree Applicable, CSU, UC

Degree Applicable, 630,

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

36 hours lecture

71 hours lab

Prerequisite: ARTD 44A

Single and multi-color composition in lithographic printmaking. Focus is on techniques in stone lithography, color registration, and composition issues. Field trips may be required.

■ ARTD 45A — Printmaking: Introduction to Screenprinting 3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Creative techniques in fine art screenprinting printmaking. Emphasis is on developing skills, vocabulary and critical understanding of the different stencil methods used in serigraphy. Screenprinting's aesthetics, historical context and role in contemporary society are examined through projects, discussion of craftsmanship and content by oral and written discussion and criticism. Field trips may be required.

■ ARTD 45B — Printmaking: Intermediate Screenprinting 3 Units Degree Applicable, CSU, UC

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

36 hours lecture

71 hours lab

Prerequisite: ARTD 45A

Complex multi-color registration in screenprinting. Emphasis on registration of colors, exploration of printing on a variety of substrates, and integration of social and political issues in print design. Field trips may be required.

■ ARTD 46A — Introduction to Painterly Printmaking 3 Units Degree Applicable, CSU

36 hours lecture

71 hours lab

Printmaking methods including carborundum prints and collography with the main focus on monotype and monoprint. Emphasis on developing skills in painterly approaches to printmaking, its vocabulary, and critical understanding of its aesthetics, historical context and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required.

■ ARTD 46B — Intermediate Painterly Printmaking 3 Units

Degree Applicable, CSU

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

36 hours lecture

71 hours lab

Prerequisite: ARTD 46A

Painterly printmaking techniques such as viscosity etchings and the complexities of simultaneous relief and intaglio printing inherent in collography. Emphasis on achieving personal artistic expression. Field trips may be required.

■ ARTD 47A — Printing: Alternative Methods Relief 3 Units and Intaglio

Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Non-toxic printmaking processes that use a variety of light sensitive polymer plates for intaglio and relief, preparation of imagery with digital means, and combining these techniques with traditional processes. Vocabulary and critical understanding of aesthetics, 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

(May be taken four times for credit)

108 hours lab

Prerequisite: ARTD 17A, ANIM 101A, or ARTD 23A

Specialized studies exploring advanced and complex figure drawing projects with emphasis on the development of an individual creative direction. Content of each course and the methods of study vary from semester to semester.

ART HISTORY

■ AHIS 1 — Understanding the Visual Arts 3 Units

Degree Applicable, CSU, UC 5

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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

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

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Fundamentals of visual art forms and the role art plays in various historical periods and cultures. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 1 (formerly ARTA 1) and AHIS 1H.

■ AHIS 3 — History of Women and Gender in Art 3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 1A

Survey of the roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women artists in the history of art and the representation of gender in a variety of cultures and time periods.

■ AHIS 3H — History of Women and Gender in Art - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Survey of the roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women artists in the history of art and the representation of gender in a variety of cultures and time periods. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 3 (formerly ARTA 3) and AHIS 3H.

■ AHIS 4 — History of Western Art: Prehistoric 3 Units Through Gothic

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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

■ AHIS 4H — History of Western Art: Prehistoric 3 Units Through Gothic - Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Western art from the Prehistoric through Gothic periods demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. This is an honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 4 (formerly ARTA 4) and AHIS 4H.

■ AHIS 5 — History of Western Art: Renaissance 3 Units Through Modern

Degree Applicable, CSU, UC

54 hours lecture

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

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

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Western art from the Renaissance through Modern periods demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 5 (formerly ARTA 5) and AHIS 5H.

■ AHIS 6 — History of Modern Art

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 international and multicultural character of Modern art will be explored.

■ AHIS 6H — History of Modern Art - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Examines the artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Modern art will be explored. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 6 (formerly ARTA 6) and AHIS 6H.

■ AHIS 8 — History of Medieval Art and Architecture 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for English 68

Medieval art and architecture in Europe and the Mediterranean. Jewish, Christian, and Islamic arts will be studied in their cultural contexts.

■ AHIS 9 — History of Asian Art and Architecture 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

Asian artistic traditions. Major monuments of painting, sculpture, architecture and other visual art forms are studied within their religious and cultural contexts.

■ AHIS 10 — A History of Greek and Roman Art 3 Units and Architecture

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

A critical history of Greek and Roman art before 500 CE. Works of art and architecture will be examined in their cultural contexts. Historical perceptions of Classical art and culture and their impact on Europe and America will be studied.

■ AHIS 11 — History of African, Oceanic, and 3 Units Native American Art

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 1A

Examination of the traditional arts of African tribes and kingdoms. Oceania and Australia, and Native North America, Visual arts including painting, sculpture, architecture, body decoration, and ritual objects will be studied in their cultural contexts.

■ AHIS 12 — History of Precolumbian Art

3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eliaibility for ENGL 68

The arts of Pre-Columbian Mesoamerica and Andean South America, Major monuments of sculpture, painting, architecture, ceramics and textiles from civilizations including the Maya, Aztecs, and Inca will be studied in their cultural contexts.

■ AHIS 12H — History of Precolumbian Art - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

The arts of Pre-Columbian Mesoamerica and Andean South America, Major monuments of sculpture, painting, architecture, ceramics and textiles from civilizations including the Maya. Aztecs, and Inca will be examined in their cultural contexts. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 12 (formerly ARTA 12) and AHIS 12H.

■ AHIS 14 — Rome: The Ancient City

3 Units

Degree Applicable, CSU

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

The art and culture of the ancient city of Rome. Major works of art and architecture will be studied in cultural and historical context. The importance of Rome and the Romans to later cultures will be explored.

■ AHIS 15 — Culture and Art of Pompeii

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Art, architecture, and culture of Pompeii and neighboring cities destroyed in the volcanic eruption of 79 CE. Major monuments and archeological remains will be studied in cultural and historical context.

■ AHIS 99 — Special Projects in Art History 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

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

Advisory: AHIS 1

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.

ASTRONOMY

3 Units ■ ASTR 5 — Introduction to Astronomy Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 1A

A non-technical survey of the Universe, Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, and galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required.

■ ASTR 5H — Introduction to Astronomy - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A; acceptance into Honors

An honors course designed to provide an enriched experience. A non-technical survey of the Universe. Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, and galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required. Students may not receive credit for both ASTR 5H and ASTR 5.

■ ASTR 5L — Astronomical Observing Laboratory 1 Unit Degree Applicable, CSU, UC

54 hours lab

Corequisite: ASTR 5 or ASTR 5H or ASTR 7 or ASTR 8 (may have been taken previously)

Provides practical experience in astronomy including use of telescopes and demonstrations in the college planetarium, Occasional evening observing sessions with the telescopes and other field trips are required.

■ ASTR 7 — Geology of the Solar System 3 Units

Degree Applicable, CSU, UC

54 hours lecture

A study of the Earth-like planets, satellites, and meteorites, from a geological point of view. Surveys geological methods and their application to the study of cratering, tectonic and volcanic activity, weathering, rock formation, landsliding, erosion, faulting, etc. Emphasis on solar system bodies other than Earth. Field trips may be required.

■ ASTR 8 — Introduction to Stars, Galaxies, and 3 Units the Universe

Degree Applicable, CSU, UC

54 hours lecture

Survey of current astronomical models, structure and evolution of stars, galaxies, and the universe. Field trip(s) required. Enroll in ASTR 5L to receive lab science credit.

2 Units ■ ASTR 99 — Special Projects in Astronomy Degree Applicable, CSU

(May be taken four times for credit)

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

36 hours lecture

In order to offer students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will improve skills through further instruction and practice.

BIOLOGY

■ BIOL 1 — General Biology

4 Units
Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Prerequisite: Eligibility for ENGL 68

Advisory: READ 90

Major principles and concepts, including cellular biology, energy relationships, biological systems, heredity, evolution and ecology for non-science majors.

■ BIOL 2 — Plant and Animal Biology

4 Units

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Prerequisite: BIOL 1 or BIOL 4; and Math 71

Basic structures and functions of plants and animals including concepts in systematics, evolution, physiology, ecology, and biotic relationships.

■ BIOL 3 — Ecology and Field Biology

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Identification and ecological relationships of common local plants and animals. Emphasizes evolutionary relationships; ecology including animal behavior, communities, ecosystems, wilderness and wildlife preservation, and population dynamics. Techniques of collecting and preserving. Many laboratory meetings conducted off campus; most trips require walking/hiking. Includes one weekend or all day field trip.

■ BIOL 4 — Biology for Majors

4 Units

Degree Applicable, CSU, UC

54 hours lecture

71 hours lab

Prerequisite: (CHEM 10 or CHEM 40) AND MATH 71

Advisory: Eligibility for Engl 1A

Principles of biology required for advanced study, including cellular and molecular biology, bioenergetics, genetics, reproduction, evolution, biodiversity, and ecology. General Biology for science majors. One hour discussion group per week. Field trips with extensive hiking required.

■ BIOL 4H — Biology for Majors - Honors 4 Units

Degree Applicable, CSU, UC

54 hours lecture

71 hours lab

Prerequisite: Acceptance into the Honors Program; (CHEM 40 or CHEM 10) AND MATH 71

Principles of biology required for advanced study including concepts of cellular and molecular biology, bioenergetics, genetics, reproduction, evolution, biodiversity and ecology. An honors course designed to provide an enriched experience. Students may not receive credit for both BIOL 4 and BIOL 4H. Field trips with extensive hiking required.

■ BIOL 5 — Contemporary Health Issues 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Provides an overview of contemporary health issues known to affect the quality and longevity of life. Topics include: sexuality and reproduction, stress management, fitness and nutrition, substance use and abuse, and environmental quality. Emphasis is on prevention of illness and injuries. May satisfy the Health Education requirement for a California State Teaching Credential.

■ BIOL 6 — Humans and the Environment

nent 3 Units
Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Ecological concepts to aid understanding our environmental crisis and determining courses of action to correct the problem. Emphasis will be placed on specific problems of population, pollution, preservation of wildlife and wilderness, and open space. A historical appraisal of human attitudes toward the land and of the necessity of developing a new land ethic.

■ BIOL 6L — Humans and the Environment Laboratory 2 Units

Degree Applicable, CSU, UC

108 hours lab

Corequisite: BIOL 6 (may have been taken previously)

Investigates major principles and problems of humans and the environment in the field and in the biological science laboratory. Most laboratory meetings will be conducted at off-campus locations. Some trips will require significant amounts of walking. Course includes one weekend field trip. Taking BIO 6 prior to BIO 6L is highly recommended.

■ BIOL 8 — Cell and Molecular Biology 4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: BIOL 4 or BIOL 4H, and CHEM 50

Introduction to cell and molecular biology including eukaryotic cells, eukaryotic organelles, protein structure and functions; DNA and RNA structure and functions; protein synthesis; genome organization in viruses, prokaryotes and eukaryotes; gene cloning; protein and DNA technology and applications of genetic engineering.

■ BIOL 13 — Human Reproduction, Development and Aging 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Provides a basic understanding of human development, from conception to death. Conception, growth, maturation and aging are studied as a natural continuum, influenced by our bio-physical and psycho-social environment. Several off-campus sites, related to course content, will be visited.

■ BIOL 15 — Human Sexuality

3 Units

Degree Applicable, CSU, UC

54 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

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Surveys biological, behavioral, cultural and ethical aspects of human sexuality. Contains mature and sexually explicit content. An honors course designed to provide an enriched experience. Students may not receive credit for both BIOL 15 and BIOL 15H.

■ BIOL 17 — Neurobiology and Behavior 3 Units

Degree Applicable, CSU, UC

54 hours lecture

An integrated analysis of the biological, ecological and evolutionary bases of behavior (ethology.) Historical and evolutionary contexts are emphasized through a detailed consideration of the psychobiological, ecological, ontological and sociobiological determinants of animal behavior. Field trips may be required.

■ BIOL 20 — Marine Biology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

An introduction to the marine environment including the principles of marine science, biology of marine invertebrates and vertebrates, structure and function of marine ecosystems, and human impact on the ocean. Field trip required.

■ BIOL 21 — Marine Biology Laboratory 1 Unit

Degree Applicable, CSU, UC

54 hours lab

Corequisite: BIOL 20 (may have been taken previously)

An introduction to the field and laboratory aspects of the marine environment. Emphasizes the structure and functional biology of marine invertebrates and vertebrates, ecology of intertidal organisms and ecology of estuaries. Field trips required.

■ BIOL 24 — Introduction to Public Health

Degree Applicable, CSU, UC

3 Units

3 Units

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Public health concepts and practice by examining the philosophy, purpose, history, organization, function, tools, activities and outcomes of public health practice at the global, national, state, and community levels. Instruction prepares students to identify and assess important national and international problems and ethical issues facing public health today.

■ BIOL 34 — Fundamentals of Genetics

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: BIOL 4 or BIOL 4H

Explores theory and applications of genetics. Major topics include Mendelian and molecular genetics, mechanisms of inheritance, gene expression, linkage and chromosome mapping, mutations and evolution, population genetics, and ethical and moral implications of DNA technology.

■ BIOL 34L — Fundamentals of Genetics Lab

1 Unit Degree Applicable, CSU, UC

54 hours lab

Coreguisite: BIOL 34 (May have been taken previously)

Experiments and problem solving in genetics including Mendelian Genetics, linkage and recombination, cell division, mutation, molecular genetics including use of PCR and electrophoresis, population genetics, and bioinformatics.

■ BIOL 50 — Biology Basic Skills

.5 Unit Not Degree Applicable

(May be taken for Pass/No Pass only)

9 hours lecture

Basic skills needed for students to succeed in biological science classes. Topics include a contrast of the academic demands of science to non-science disciplines, preparation for biological laboratory experiences as well as lectures, development of personal study plan to manage the large volume of information, interpretation of biological graphs and diagrams, introduction to common Latin and Greek words to build vocabulary, use of memorization techniques, application of test-taking strategies for biological exams, especially lab practica, and analysis of test results. These techniques and strategies will be discussed using biological concepts and vocabularies as examples. Recommended to be taken concurrently with any biological science class.

■ BIOL 99A — Special Projects in Biology 1 to 2 Units Degree Applicable, CSU

(May be taken four times for credit)

18 to 36 hours lecture

In order to offer students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have in structor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced.

BOTANY

■ BTNY 3 — Plant Structures, Functions, and Diversity 5 Units Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Advisory: BIOL 1 or BIOL 4 and eligibility for ENGL 1A

Structures, functions, and diversity of plants, fungi, and algae. Includes comparative morphology and phylogenetic relationships of organisms from bacteria to angiosperms with an emphasis on ethnobotany, evolution, classification, ecology and conservation. Several laboratory meetings are mandatory field trips, conducted off-campus, and students provide their own transportation.

BUSINESS: ACCOUNTING

■ BUSA 7 — Principles of Accounting - Financial 5 Units

Degree Applicable, CSU, UC

CAN BUS SEQ A

90 hours lecture

Prerequisite: BUSA 11 or eligibility for MATH 51

Advisory: Eliaibility for ENGL 1A

various homework assignments.

Introduction to financial accounting required of Business Administration and Accounting majors. Defines financial accounting and its relevance to business decision makers, accounting concepts and techniques, analysis and recording of financial transactions. and preparation, analysis and interpretation of financial statements focusing on application of generally accepted accounting practices, Includes asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, ethics, and financial statement analysis. General Ledger Accounting Software program is integrated throughout and used to complete

■ BUSA 8 — Principles of Accounting - Managerial 5 Units Degree Applicable, CSU, UC

90 hours lecture

Prerequisite: BUSA 7

Managerial accounting concepts and principles. Includes the role of managerial accounting, cost management concepts, cost behavior and relevant costs, job order and process costing, costvolume-profit analysis, absorption and variable costing, profit planning and budgeting, standard costing and flexible budgeting, responsibility accounting and segment reporting, capital budgeting decisions, activity based costing, and cost management for just in time environments. Excel spreadsheet software is used to solve accounting problems or decision making in business.

■ BUSA 11 — Fundamentals of Accounting

3 Units

Degree Applicable

54 hours lecture

Prerequisite: BUSA 68 or eligibility for MATH 50

Accounting vocabulary and theory, equations to solve word problems, percentages, simple and compound interest, payroll, business taxes, present value, investments, inventory, depreciation, financial statement analysis and ratios.

■ BUSA 21 — Cost Accounting

4 Units

Degree Applicable

72 hours lecture

18 hours lab

Prerequisite: BUSA 8

Practical and theoretical concepts of cost accounting. Includes variable and fixed costs, cost-volume-profit analysis, job order and process costing, activity-based costing, general and flexible budgeting, standard costs, product costing/pricing methods, cost allocation, inventory management, capital budgeting, and transfer pricina.

■ BUSA 52 — Intermediate Accounting

3 Units

Degree Applicable

54 hours lecture

Prereauisite: BUSA 8

Detailed review of basic accounting concepts and principles and an in-depth analysis of the balance sheet and income statement. Emphasis is placed on the changing nature of principles and practices, the application of present-value concepts, the complexity of transactions that arise in a complex economic environment and the use of accounting information in decision making.

■ BUSA 53 — Ten-Key Calculations

2 Units

Degree Applicable

18 hours lecture

54 hours lab

Prerequisite: BUSA 68 or eligibility for MATH 50

Operation of electronic calculators by the touch method to solve business and accounting problems. Focuses on the application of calculator features to specific business concepts including banking records, payroll, invoice pricing and inventory.

■ BUSA 58 — Federal Income Tax Law

3 Units
Degree Applicable

54 hours lecture

Prerequisite: BUSA 7 or BUSA 72

Federal income tax law as related to individuals, with comparison to partnerships, corporations and state. Emphasis is placed on individual income taxes and related problems including research through the use of a federal tax reporting service.

■ BUSA 68 — Business Mathematics

3 Units
Not Degree Applicable

54 hours lecture

Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving.

■ BUSA 70 — Payroll and Tax Accounting

3 Units

Degree Applicable

54 hours lecture

Prerequisite: Eligibility for BUSA 11

Examines all areas of on-the-job payroll accounting. Surveys the various tax procedures required by the employer and employee in filing the correct forms for Social Security, federal, and state income taxes and their reconciliation. Laws related to Worker's Compensation, State Disability Benefit Laws and Fair Employment Practices are discussed.

■ BUSA 71 — Personal Financial Planning

3 Units

Degree Applicable, CSU

54 hours lecture

Personal and family financial planning for those who wish to understand their own finances across the lifespan and assist others in money management. Topics include financial goal setting, budgeting, consumer credit, debt management, banking functions, income taxes, home ownership, insurance, investing, and retirement planning. Students may not earn credit for both BUSA 71 and FCS 80.

■ BUSA 72 — Bookkeeping - Accounting

5 Units Degree Applicable

90 hours lecture

Prerequisite: BUSA 68 or eligibility for MATH 50

Fundamental bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of a practice set.

■ BUSA 75 — Using Microcomputers in Financial 1 Unit

Degree Applicable

18 hours lecture

Prerequisite: BUSA 7 or BUSA 72

Application of basic accounting concepts utilizing a computerized ledger software program. Hands-on use of a microcomputer to process accounting transactions, prepare statements and reports, and complete accounting cycle tasks. Completion of a computerized accounting practice set will be required.

■ BUSA 76 — Using Microcomputers in Managerial Accounting

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1 Unit

Degree Applicable

18 hours lecture

Prerequisite: BUSA 7 or BUSA 72

Analysis of financial data and preparation of managerial accounting reports using Excel software. Development of what-if formulas to be used as an aid in decision-making. Includes manufacturing and consolidation worksheets, financial statement analysis, and statement of cash flows.

■ BUSA 81 — Work Experience in Accounting

1 to 4 Units
Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

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

Advisory: BUSA 7 or BUSA 72

Provides accounting students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice.

BUSINESS: BUSINESS COMMUNICATIONS

■ BUSO 5 — Business English

3 Units
Degree Applicable

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

Thorough training in the skills and techniques of English, as applied to business situations, with emphasis on effective paragraphs and memos.

■ BUSO 25 — Business Communications

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: ENGL 1A

Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims, and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports.

■ BUSO 26 — Oral Communications for Business

ss 3 Units Degree Applicable

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

54 hours lecture

Oral communication used in business situations such as training sessions, presentations, professoinal discussions, and telephone interactions.

■ BUSO 96A — Business Vocabulary

1.5 Units
Degree Applicable

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

27 hours lecture

Develops a broad word command of new and specialized business vocabulary for use in various businesses. Improves vocabulary to enhance written and oral communication

BUSINESS: ECONOMICS

■ BUSC 1A — Principles of Economics - Macroeconomics 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A, and successful completion of MATH 71 or MATH 71B or MATH 71X

Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance.

■ BUSC 1AH — Principles of Economics - Macroeconomics - Honors

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program and MATH 71, or MATH 71B. or MATH 71X

Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy, alternative economic viewpoint; budget deficits and public debts; international trade and finance. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1A and BUSC 1AH.

■ BUSC 1B — Principles of Economics - Microeconomics 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: BUSC 1A or BUSC 1AH

Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity; cost theory; price and output determination under various market structures; factor markets; public choice; income distribution; externalities and government regulation; comparative economic systems.

■ BUSC 1BH — Principles of Economics 3 Units - Microeconomics - Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: BUSC 1A or BUSC 1AH

Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity; cost theory; price and output determination under various market structures; factor markets; public choice, income distribution, externalities and government regulations; comparative economic systems. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1B and BUSC 1BH.

■ BUSC 17 — Applied Business Statistics

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MATH 71

Statistical reasoning and application of primary statistical techniques used in solving managerial problems. Topics include: collection and interpretation of data, measures of central tendency and dispersion, probability distributions, sampling and estimation, hypothesis testing, analysis of variance, linear regression and correlation and index numbers.

BUSINESS: LAW

■ BUSL 18 — Business Law

3 Units

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 18H.

■ BUSL 19 — Advanced Business Law 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: BUSL 18

Principles of business law emphasizing commercial paper, agency, partnerships, corporations, bankruptcy, regulation of trade and real property.

■ BUSL 20 — International Business Law

3 Units Degree Applicable

54 hours lecture

Advisory: Eligibility for ENGL 68

A comparative approach to the study of the international legal environment for business. Cultural, political, economic and ethical issues are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, crimes, trade regulation and technology transfers.

BUSINESS: MANAGEMENT

■ BUSM 10 — Principles of Continuous Quality 3 Units Improvement

Degree Applicable

54 hours lecture

Advisory: Eliaibility for ENGL 68 or BUSO 5

History and evolution of thought in Continuous Quality Improvement, including the theories and methods of Deming, Juran and Crosby. The quality management process and tools for the continuous improvement of quality are presented. Relevant case studies are included.

■ BUSM 20 — Principles of Business

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Study of business and its functions, background, development, organization, and opportunities. Business terms, current trends, methods, contemporary and future problems, and current business practices are covered.

■ BUSM 50 — World Culture: A Business Perspective 3 Units Degree Applicable, CSU

54 hours lecture

An overview of the effects of culture on business communication and interaction. Cultural roles and components are described and related to the business environment and the student's own culture.

■ BUSM 51 — Principles of International Business 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68 or BUSO 5

An overview of the rapidly changing international business environment, designed to provide a global perspective. Introduces global viewpoints across the full spectrum of business functions, including, but not limited to: accounting, finance, human resources, management, operations, production, purchasing, and strategic planning.

■ BUSM 52 — Principles of Exporting and Importing 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68 or BUSO 5

Acquaints the student with the vocabulary, acronyms and the basic information needed for an understanding of and participating in the exporting and importing of goods and services.

■ BUSM 60 — Human Relations in Business 3 Units

Degree Applicable, CSU

54 hours lecture

Behavior, personality, self-management, self-development, and elementary business psychology as an aid to furthering the student's business advancement and lifelong learning. Class discussions focus on the student's understanding of intrapersonal and interpersonal effectiveness with emphasis on communications, motivation, leadership and other related areas.

■ BUSM 61 — Business Organization and Management 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: BUSM 20

Functions of management, techniques of decision making and problem solving, and methods used by the manager to achieve organizational goals. Various theories of management, lines of authority, functions of departments, and the importance of policies, procedures, and controls are discussed.

■ BUSM 62 — Human Resource Management

3 Units

Degree Applicable

54 hours lecture

Direction of people including guidance, control supervisory problems, training, job analysis interviewing, testing, rating, and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the business organization.

■ BUSM 66 — Small Business Management 3 Units

Degree Applicable, CSU

54 hours lecture

Practical problems encountered in organizing and operating a small business enterprise: initiating the business, financial and administrative control, legal and government relationships and other related considerations.

■ BUSM 81 — Work Experience in Business

1 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

Corequisite: BUSM 20 (may have been taken previously)

Provides business students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice.

■ BUSM 85 — Special Issues in Business

2 Units Degree Applicable

(May be taken two times for credit)

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

Provide business majors with a forum to gain knowledge, develop techniques, problem solve and implement an actual business plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice.

BUSINESS: PARALEGAL

■ PLGL 30 — Introduction to Paralegal/Legal 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: ENGL 68

Federal and state legal systems, the relationship of paralegals to attorneys, legal writing and research, investigation of claims, and legal ethics for paralegals.

■ PLGL 31A — Legal Analysis and Writing

Degree Applicable, CSU

3 Units

54 hours lecture

Corequisite: PLGL 30 (May have been taken previously)

Use of a law library for legal research and references, reading and analyzing codes and statutes, and preparation of case briefs and research reports.

■ PLGL 31B — Advanced Legal Analysis and Writing 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: PLGL 30 and PLGL 31A

Preparation of research memoranda, trial briefs, appellate briefs and other paralegal documents.

■ PLGL 33A — Civil Procedure Pretrial

3 Units Degree Applicable, CSU

54 hours lecture

Corequisite: PLGL 30 (may have been taken previously)

Analysis of the pretrial procedural steps to litigating a cause of action. Examines the concepts of jurisdiction, venue, parties to the action, summons, default judgments, and pleadings.

■ PLGL 33B — Civil Procedure-Trial and Post-Trial 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: PLGL 33A

Preparing for litigation. Includes discovery, preparation of law and motion documents, remedies, summary judgments, motions to dismiss, settlements, and arbitration.

■ PLGL 35A — Law Office Procedures

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: PLGL 30

Examines procedures utilized by a paralegal in a law office. Includes knowledge of court systems, preparation and filing of legal papers and court documents, and drafting specialized documents in such areas as estate planning, real estate, divorce, unlawful detainer, adoption, corporations, conservatorships and guardianships.

■ PLGL 35B — Automated Law Office Procedures 3 Units Degree Applicable

54 hours lecture

Prerequisite: PLGL 30 and PLGL 35A

Advisory: CISB 15

Use of the personal computer for special purposes in the law office; includes the drafting of pleadings, document control, preparation of billing, law office and case load management, and tax reports.

■ PLGL 36 — Paralegal Internship

1 Unit

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 hours lab

Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A

Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have been taken previously)

Designed to provide the student with actual on-the-job experience in the paralegal profession which relates to student's class-room based learning. Placement is not guaranteed but assistance is provided by the paralegal faculty. A minimum of five hours per week of supervised work (minimum 75 paid clock hours or 60 non-paid clock hours per semester) is required. Students who repeat this course will improve skills through further instruction and practice.

■ PLGL 37 — Tort Law

3 Units

Degree Applicable, CSU

54 hours lecture

Analysis of the law of torts including intentional torts such as assault, battery, false imprisonment, defamation, privacy, trespass and nuisance; negligence; and strict liability. Examination of insurance defense issues.

■ PLGL 38 — Employment and Ethical Issues in Paralegalism

2 Units

Degree Applicable

36 hours lecture

Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A

Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have been taken previously)

Job search skills including preparation of professional resumes and cover letters. interviewing techniques, networking, application of these skills in beginning the search for paralegal employment, and paralegal and attorney ethics.

■ PLGL 39 — Contract Law

3 Units

Degree Applicable, CSU

54 hours lecture

Laws relating to the formation of contracts. Includes study of the statute of frauds, third-party rights, liability for breach of contract, remedies, discharge, and the Uniform Commercial Code.

■ PLGL 40 — Landlord-Tenant Law

3 Units

Degree Applicable, CSU

54 hours lecture

Landlord-tenant law and creation of legal documentation to represent the landlord-tenant relationship. Examination of the rights and liabilities of the landlord and the tenant.

■ PLGL 41 — Property Law

3 Units Degree Applicable, CSU

54 hours lecture

Examination of the law relating to real and personal property. Analysis of the various forms of ownership of real property; easements, covenants, conditions, and licenses; constitutional questions; types of real estate deeds; and land use controls.

■ PLGL 42 — Family Law

3 Units Degree Applicable, CSU

54 hours lecture

Laws relating to marriage, dissolution, nullity, and legal separation. Includes topics of community property, child custody, child support, spousal support, and prenuptial/antenuptial agreements.

■ PLGL 43 — Wills and Trusts

3 Units Degree Applicable, CSU

54 hours lecture

Legal principles of the laws of wills and trusts, organization and jurisdiction of the California Probate Courts, estate planning and estate taxes.

■ PLGL 44 — Bankruptcy Law

3 Units

Degree Applicable, CSU

54 hours lecture

Creation, scope, and administrative function of federal bankruptcy proceedings and arrangements. Includes wage earner plans and insolvency proceedings.

■ PLGL 45 — Creditors' Rights

3 Units

Degree Applicable, CSU

54 hours lecture

Creation, perfection, and enforcement of security interests in property. Unsecured creditors and their methods of enforcing rights and obtaining judgments.

■ PLGL 47A — Litigation Procedures

3 Units

Degree Applicable, CSU

54 hours lecture

Overview of litigation procedures. Description of a trial and trial presentations are emphasized. Preparation of opening statements, direct and cross examinations, and closing statements. Elements of oral argument are examined. Methods of responding to questioning are analyzed.

■ PLGL 47B — Litigation Practice

1.5 Units

Degree Applicable, CSU

27 hours lecture

Students will present a case and evaluate the effectiveness of their presentation. Continuous revision of opening arguments, closing arguments, direct examinations, and cross-examinations.

■ PLGL 48 — Criminal Law and Procedures 3 Units

Degree Applicable, CSU

54 hours lecture

General principles of criminal law and procedure, elements of crimes against person and property, parties to a crime, defenses to crimes. Analysis of procedural law relating to arrest, search and seizure, rights to counsel and a jury, evidentiary issues, sentencing and appeal.

■ PLGL 49 — Evidence Law

3 Units

Degree Applicable, CSU

54 hours lecture

Overview of evidence law in civil and criminal cases: principles of relevance and competence of evidence; hearsay and character evidence rules; evidentiary privileges; use and authentication of writings. Use of evidence at trial, burdens of proof and presumptions, constitutional issues.

■ PLGL 50 — Comparative Law

3 Units

Degree Applicable

54 hours lecture

Advisory: Eligibility for ENGL 1A

A comparison of the traditions and legal systems of various nations. Specific legal concepts and principles relating to areas of business, substantive law, and procedural law are compared to illustrate and distinguish those systems from the U.S. system. Ethics, language, and management issues are considered with regard to doing business abroad.

BUSINESS: REAL ESTATE

■ BUSR 50 — Real Estate Principles

3 Units

Degree Applicable, CSU

54 hours lecture

Introductory real estate law, public control, property valuation, finance and real estate practice. Meets some of the California Real Estate Salesperson and Broker License requirements and meets 30 hours toward Basic Appraisal Procedures 2008 Appraiser Qualifications Board (AWB) requirements for certified-residential/certified-general appraiser license. Also provides 30 hours toward office of real estate Appraisers (OREA) requirements for state licensing.

■ BUSR 51 — Legal Aspects of Real Estate

3 Units Degree Applicable

54 hours lecture

Prerequisite: BUSR 50

Real estate contracts, leases, deeds, foreclosures, homesteads, agency, and disclosures. Can be used to meet the additional educational requirements for the salesperson or broker license.

■ BUSR 52 — Real Estate Practice

3 Units Degree Applicable

54 hours lecture

Corequisite: BUSR 50 (may have been taken previously)

Office procedures and practices in listings, advertising, prospecting, financing, exchanges, property management, salesmanship, land utilization and public relations. A course in real estate practice must be completed within 18 months of licensure.

■ BUSR 52D — Real Estate Practice Work Experience 3 Units

Degree Applicable

(May be taken four times for credit)

225 hours lab

Corequisite: BUSR 50 and not possessing a permanent California real estate license at time of enrollment. Student must be enrolled in seven units minimum including work experience units.

Provides a minimum of 180 hours of on-site real estate office and/or field work experience under the supervision of a licensed California real estate professional and a college instructor/coordinator. Designed to satisfy Department of Real Estate licensing requirements serving as an equivalent to BUSR 52. Students who repeat this course will improve their skills through further instruction and practice.

■ BUSR 53 — Real Estate Finance

3 Units

Degree Applicable

54 hours lecture

Prerequisite: BUSR 50

Real estate financing sources, loans underwriting, applications, and appraisals. Can be used to meet the additional education requirement of the salesperson or broker license.

■ BUSR 55 — Real Estate Economics

3 Units

3 Units

Degree Applicable

54 hours lecture

Prerequisite: BUSR 50

Analysis of international, national and local factors which determine the value of real estate. Required by the DRE for the real estate broker license and may be used as the elective course for the salesperson license.

■ BUSR 57 — Income Tax Aspects of Real **Estate Investments**

Degree Applicable

54 hours lecture

Current income tax principles governing the acquisition, ownership, operation and disposition of real property investments with special emphasis on tax planning and integration of tax concepts with procedural aspects. May be used as an elective course to satisfy one of the California Department of Real Estate's requirements for the salesperson or broker license.

■ BUSR 59 — Real Estate Property Management 3 Units Degree Applicable

54 hours lecture Prereauisite: BUSR 50

Property management for owners and managers of residential and commercial income properties. Meets California real estate license requirements for salesperson and broker.

■ BUSR 60 — Real Estate Investment Planning

3 Units Degree Applicable

54 hours lecture Prereauisite: BUSR 50

A comprehensive analysis of various investment strategies, techniques, systems, and theories involving all forms of real estate with particular emphasis on research methods needed for successful investing.

■ BUSR 62 — Mortgage Loan Brokering and Lending 3 Units Degree Applicable

54 hours lecture Prereauisite: BUSR 50

Overview of the technical knowledge of the State and Federal laws that govern the practice of mortgage loan brokerage and lending in the State of California as well as mortgage lending history and process. May be used as an elective for the salesperson or broker license.

■ BUSR 76 — Escrow Procedures I

3 Units Degree Applicable

54 hours lecture

A case study method of escrow procedures including processing of sale escrows with and without new trust deed financing; learning and using the vocabulary of escrow; drawing of documents; and other processing details pertinent to handling escrows from inception to closing. May be used as an elective for the salesperson or broker license.

■ BUSR 77 — Escrow Procedures II

3 Units Degree Applicable

54 hours lecture Prereauisite: BUSR 76

Advanced escrow procedures covering the more unusual and difficult types of escrows and evaluating the possible solutions. Emphasis on practical processing of real estate sale and loan transactions with some personal property sales. Designed to assist those either directly or indirectly connected with the escrow industry.

■ BUSR 81 — Appraisal: Priniciples and Procedures 3.5 Units Degree Applicable

63 hours lecture

Principles and procedures of appraising real property with emphasis on residential properties. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses and by the Department of Real Estate (DRE) for real estate broker license. Provides 60 hours toward OREA requirements for state licensing. Includes all topics listed in Appraisal Qualifications Board (AQB) Basic Appraisal Principles and Basic Appraisal Procedures modules. May be used as the elective course for the salesperson license.

■ BUSR 82 — Uniform Standards of Professional 1 Unit 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 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 Appraisers (OREA) for all appraisal licenses and provides 60 hours toward OREA requirements for appraisal licensing. May be used as the elective course for the salesperson license or the required appraisal course for broker license.

■ BUSR 84 — Residential Appraisal: Case Studies 2.5 Units Degree Applicable

45 hours lecture

Emphasizes residential appraisal case studies, report writing, statistics, modeling, and finance. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses, Provides 45 hours toward OREA requirements for state licensing. Includes all topics listed in Appraisal Qualifications Board (AQB) Modules: Residential Report Writing and Case Studies; Statistics, Modeling, and Finance; and Advanced Residential Applications and Case Studies.

BUSINESS: SALES, MERCHANDISING, AND MARKETING

■ BUSS 33 — Advertising and Promotion

3 Units Degree Applicable, CSU

54 hours lecture

Characteristics and role of advertising and promotion in business are explored. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy. Students may not receive credit for both BUSS 33 and FASH 63.

■ BUSS 35 — Professional Selling

3 Units Degree Applicable, CSU

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

Principles of selling and the role of a salesperson in the marketing process. Includes characteristics and skills necessary for a successful salesperson, techniques for prospecting and/or qualifying buyers, buyer behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept.

■ BUSS 36 — Principles of Marketing

3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Organization and function of system of distributing goods and services from the point of production to the consumer. Preparation of a marketing plan using product, distribution, promotional and pricing strategies.

■ BUSS 50 — Retail Store Management and Merchandising 3 Units Degree Applicable, CSU

54 hours lecture

Principles and practices used in the management and merchandising of retail stores. Includes critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service. Students may not receive credit for both FASH 62 and BUSS 50.

■ BUSS 79 — Work Experience in Marketing Management

1 to 4 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance with Work Experience regulations as designated in the College Catalog

Provides marketing students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work Experience placement is not quaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice.

■ BUSS 85 — Special Issues in Marketing

2 Units Degree Applicable

(May be taken four times for credit)

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

36 hours lecture

Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50

Provides marketing majors with a forum to gain knowledge, develop techniques, problem solve, and implement an actual business marketing plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice.

CHEMICAL TECHNOLOGY

■ CHMT 1 — Introduction to Chemical **Laboratory Technology**

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prereauisite: CHEM 10

A survey of chemical laboratory professional and ethical responsibilities, aspects of environmental health and safety, safe handling of chemicals, data collection, data presentation, and strategies for quality improvement. Group projects and case studies will be used to illustrate specific aspects of the course. May include field trips.

■ CHMT 8 — Work Experience in Chemical Technology 1 to 2 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 150 hours lab

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

Provides Chemistry Technology students with actual on-thejob experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

CHEMISTRY

■ CHEM 10 — Chemistry for Allied Health Majors 4 Units

Degree Applicable, CSU, UC

54 hours lecture

72 hours lab

Prereauisite: Eliaibility 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

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 10 or CHEM 40

Nomenclature, structure, function and reactions of major classes of organic compounds and of biomolecules, including amino acids, lipids, carbohydrates, nucleic acids and proteins. Structure and function of vitamins, coenzymes and enzymes. Metabolic pathways and biochemical energy.

■ CHEM 40 — Introduction to General Chemistry 4 Units

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

54 hours lecture

72 hours lab

Prerequisite: Eligibility for MATH 71

Advisory: Eliaibility for ENGL 1A

Introduction to measurements, structure and properties of matter, writing/balancing equations, stoichiometry, properties and behavior of gases, and properties of solutions. For science/engineering majors preparing for admission into General Chemistry (CHEM 50.)

■ CHEM 50 — General Chemistry I

5 Units

54 hours lecture

108 hours lab

Prerequisite: (CHEM 40 or satisfactory score on Chemistry Placement Examination) and (MATH 71, 71B or 71X or equivalent)

Topics in general chemistry such as scientific method, measurements, nomenclature, formulas and equations, reaction patterns. stoichiometry, thermodynamic processes, periodic trends, atomic structure, molecular bonding and geometry, properties of gases. liquids, solids and solutions. Emphasis is on critical thinking and mathematical problem-solving using dimensional analysis. Hands-on laboratory experiments use computer and calculatorbased technologies in data acquisition and analysis. Introduces techniques of scientific writing.

■ CHEM 50H — General Chemistry I - Honors 5 Units Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: Acceptance into the Honors Program, Also (CHEM 40 or satisfactory score on the Chemistry Placement Exam) and (MATH 71, 71B or 71X or equivalent)

Topics in general chemistry such as scientific method, measurements. nomenclature, formulas and equations, reaction patterns, stoichiometry, thermodynamic processes, periodic trends, atomic structure. molecular bonding and geometry, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking and mathematical problem-solving using dimensional analysis. Hands-on laboratory experiments use computer and calculator-based technologies in data acquisition and analysis. Introduces techniques of scientific writing. An honors course designed to provide an enriched experience. Students may not receive credit for both CHEM 50 and CHEM 50H.

■ CHEM 51 — General Chemistry II

5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prereauisite: CHEM 50 or CHEM 50H

The application of the laws, theories and principles presented in CHEM 50 to a variety of chemical systems. Topics include kinetics, equilibrium, thermodynamics, acid-base and oxidationreduction reactions, transition metals, electrochemistry and nuclear chemistry. Emphasis is on critical thinking and mathematical problem- solving. Laboratory experiments use computer and calculator-based technologies in data acquisition and analysis.

■ CHEM 60 — Quantitative Chemical Analysis

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 51

Techniques of gravimetric, volumetric and instrumental analysis. Precision in measurements, computations, accurate record keeping and report writing. General procedures, skills, methods, practices, philosophies, terminologies and ethics found in industrial, governmental and academic laboratories.

■ CHEM 80 — Organic Chemistry

5 Units

5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 51

Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre-professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods for organic compunds. To assure that all content material is covered, it is recommended that students complete the entire one-year sequence at one campus prior to transfer.

■ CHEM 81 — Organic Chemistry

5 Units Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 80

Continuation of CHEM 80. Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in preprofessional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods. Structure, synthesis and representative reactions of carbohydrates, lipids and proteins.

■ CHEM 99 — Special Projects in Chemistry

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

Prerequisite: CHEM 50

In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this class. Students repeating this course will make individual contracts of a more advanced nature to ensure that proficiencies are enhanced.

CHILD DEVELOPMENT

■ CHLD 1 — Child, Family, School and Community 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Child development is presented as the interaction and collaboration between children, parents, family, school and community. Studies of family systems in contemporary society as they impact children and their individual heritage, diverse culture, ability and language. Explores the value of communication, the development of child advocacy skills and the ability to use community resources to empower families and children.

■ CHLD 5 — Principles and Practices in **Child Development Programs**

3 Units

Degree Applicable, CSU

54 hours lecture

Overview of early child development programs: their histories, philosophies and emphasis; methods of guidance and discipline, licensing and regulations for state, federal and private programs Reviews philosophies of educating young children and learning, while examining developmentally appropriate practices, including the influence of culture and inclusive environments on the developing child. Explores career paths, professional growth, and ethics. Student assignments involve ten hours outside of class time observation and participation in children's programs.

■ CHLD 6 — Survey of Child Development Curriculum 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: CHLD 5 or CHLD 10

Curriculum designs and environments for children?s programs. Explores materials and resources used when planning and implementing developmentally appropriate curriculum for young children. Examines the teacher?s role in observation and assessment to support development, play, and learning. TB test and observations required.

■ CHLD 10 — Child Growth and Development 3 Units Degree Applicable, CSU, UC

54 hours lecture

Developmental approach to the study of the child identifying forces affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title V Regulations pertaining to Child Development Permit. Out-of-class observations and interviews required. TB test required.

■ CHLD 10H — Child Growth and Development - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Developmental approach to the study of the child identifying forces affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title V Regulations pertaining to Child Development Permit. Out-of-class observations and interviews required. An honors course designed to provide an enriched experience for accelerated students. Students may not receive credit for both CHLD 10 and CHLD 10H. TB test required.

■ CHLD 11 — Child and Adolescent Development 3 Units Degree Applicable, CSU

54 hours lecture

Examines major physical, psychosocial, cognitive, language and brain developmental processes prenatal through adolescence. Emphasis on developmental theory, research methodologies, maturational processes and environmental factors. Meets Title 22 and Title V requirements for the Child Development Permit. TB test, out-of-class observations and interviews required.

■ CHLD 50 — Teaching in a Diverse Society 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: CHLD 1

Development of social identities in diverse societies of young children in classroom settings. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches teaching all children in becoming competent members of a diverse society. Course utilizes teaching strategies that include self-examination, reflection and opportunity to address issues related to social identity, stereotypes and bias, social and educational access, media and schooling. Out-of-class observations required. TB test required.

■ CHLD 51 — Early Literacy in Child Development 3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: CHLD 61

Examines the developmental continuum of literacy from birth through early childhood. Considerations of cultural and linguistic diversity are applied to the study of how children become competent in all areas of language. An appreciation of the importance of interaction and cooperation between home and school underlies the exploration of language and literacy acquisition. Issues of early literacy in public policy are reviewed. TB test/observations required.

■ CHLD 61 — Language Arts and Art Media for Young Children

Degree Applicable

3 Units

54 hours lecture

Experience and evaluate activities and techniques that support the young child's creative process and early literacy development. Describes the role of creative art in the curriculum and how to foster the child's development and creativity. Emphasizes ways to develop and implement a complete language arts program that supports children's listening, speaking, reading and writing skills to enhance literacy development.

■ CHLD 62 — Music and Motor Development for 3 Units Young Children

Degree Applicable, CSU

54 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 Young Children

Degree Applicable

3 Units

54 hours lecture

Advisory: Eligibility for ENGL 68

Exploration of children's thinking processes and problem-solving abilities as they become aware of the physical world. Includes planning and creating science and math experiences that emphasize the creative aspects of math and science.

3 Units ■ CHLD 64 — Health, Safety and Nutrition of Young Children

Degree Applicable, CSU

54 hours lecture

Examines the relationship between a child's health status, safe learning environments, and proper nutrition. Emphasizes the adult role in preventative health care, legal and ethical reporting of abuse, assisting families to access community services while supporting family practices from diverse populations. Includes universal health precautions, evaluate center/agency policies with licensing requirements, and food program service with guidelines for food handling.

■ CHLD 66 — Early Childhood Development Observation 2 Units Degree Applicable, CSU

36 hours lecture

Prerequisite: CHLD 5 and CHLD 10 or CHLD 10H

Corequisite: CHLD 66L (may have been taken previously)

Emphasizes the importance of observation of children's behavior and its significance in understanding child development principles. Focus will be on the interaction of the preschool child with the environment and with significant people.

■ CHLD 66L — Early Childhood Development 1 Unit Observation Laboratory

Degree Applicable, CSU

54 hours lab

Corequisite: CHLD 66

Provides the student with an understanding of child development through observations in the laboratory school. The holistic approach to child study is emphasized. Students synthesize information which they have recorded and relate it to different areas of the preschool child's growth and development.

■ CHLD 67 — Early Childhood Development Participation 2 Units Degree Applicable, CSU

36 hours lecture

Prerequisite: CHLD 6 and CHLD 66

Corequisite: CHLD 67L

Application of knowledge of child development principles in the preschool children's classroom setting and recognition of skills necessary for the teacher of young children. Evaluation of participation experiences.

■ CHLD 67L — Early Childhood Development Participation Laboratory

Degree Applicable, CSU

1 Unit

63 hours lab

Corequisite: CHLD 67

Teaching experiences in the preschool children's classroom related to creating environment, managing program, preparing materials, planning and carrying out activities for individual children and groups of children.

■ CHLD 68 — Children With Special Needs 3 Units

Degree Applicable, CSU

54 hours lecture

Prereauisite: CHLD 10 or CHLD 10H

Characteristics of the needs of typically and atypically developing children in areas of cognitive, physical, neurological, emotional and social development. Identifies legal requirements, current issues, community resources and the IEP/IFSP process. Emphasizes modifications, adaptations, accommodations and teaching techniques involved in the inclusive classroom. Required observations in community agencies.

■ CHLD 69 — Early Childhood Development Field 2 Units Work Seminar

Degree Applicable, CSU

36 hours lecture

Prerequisite: CHLD 67, CHLD 67L

Corequisite: CHLD 91

Selected topics pertinent to problems of students placed in community sites. Topics include philosophical orientation, curriculum, parent involvement, staff relations, professionalism and professional growth, and will involve study, discussion and research.

■ CHLD 71A — Administration of Child Development 3 Units Programs

Degree Applicable, CSU

54 hours lecture

Advisory: CHLD 1, CHLD 5, CHLD 6, CHLD 10 or CHLD 10H

Administration of children's programs including laws governing children's programs in California, site development and supervision, administrator's duties, program budget and management, personnel selection and standards, records and reports, health and safety supervision and staff policies.

■ CHLD 71B — Management/Marketing/Personnel for 3 Units ECD Programs

Degree Applicable, CSU

54 hours lecture

Prerequisite: CHLD 71A

Strategic planning for childhood programs, including financial administration, marketing strategies and staff development. Personnel management practices designed to facilitate administrator and staff relationships, skill building in leadership, and team work.

■ CHLD 72 — Teacher, Parent, and Child Relationships 3 Units Degree Applicable

54 hours lecture

Comprehensive examination of child/parent/teacher relationships to better understand family dynamics and to recognize influences in the child development setting. Theories of sequential changes in parent/child/school relations within the large social context. Strategies dealing with issues that emerge when working with children and their families in the school setting.

■ CHLD 73 — Infant/Toddler Care and Development 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: CHLD 10 or CHLD 10H

Caregivers and parents learn developmentally appropriate practices for infants and toddlers applicable to families and group care, environmental planning, and developing relationships between diverse families and staff. Student assignments involve up to ten hours of observations and participation with infants and toddlers outside of class time.

■ CHLD 74 — Program Planning for the School Age Child 3 Units Degree Applicable

54 hours lecture

Advisory: CHLD 10 or CHLD 10H

Integrates principles of child development related to working with the school-age child. Program planning and legal requirements for school-age programs are emphasized. Explores age-appropriate discipline and conflict resolution. Develops activity planning consistent with school-age content standards. Student assignments will include observations of school-age programs.

■ CHLD 75 — Supervising Adults in Early Childhood Settings

2 Units

Degree Applicable

36 hours lecture

Advisory: CHLD 1 and CHLD 5

Methods and principles of working with and supervising adults in the early childhood setting. Emphasis is on the role of the experienced children's teacher who functions as a model and mentor to new teachers as s/he addresses the needs of children, parents and staff.

■ CHLD 81 — Current Curriculum Models in Child Development

1 Unit

Degree Applicable

(May be taken two times for credit)

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

18 hours lecture

Provides students with working knowledge of specific curriculum models appropriate for child development programs. Origins, classroom practices, pros, cons, and evaluation methods discussed. Curriculum model will change with course offering.

■ CHLD 82 — Advocacy in Child Development

1 Unit Degree Applicable

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

18 hours lecture

Investigates current issues in Child Development; explores process of advocacy on behalf of children.

■ CHLD 83 — Current Issues in Child Development 1 Unit Degree Applicable

(May be taken four times for credit)

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

18 hours lecture

Advisory: CHLD 5. CHLD 10 or CHLD 10H

Provides students with a working knowledge of current research in child development and helps them apply that research to their programs and teaching. Issues covered will change with course offerings. Students who repeat this course will improve skills through further instruction and practice.

■ CHLD 84 — Guidance and Discipline in Child 1 Unit Development Settings

Degree Applicable, CSU

18 hours lecture

Advisory: CHLD 5

Problem solving approach to guidance and discipline of children in child development settings. Investigation of appropriate developmental and attitudinal aspects of producing a respectful environment between children, caregivers and parents.

■ CHLD 85 — Infants At Risk

3 Units
Degree Applicable

54 hours lecture Prerequisite: CHLD 10 Advisory: CHLD 73

Principles and methods of working with infants who are disabled or at-risk. Emphasis on prenatal prevention, postnatal intervention, and support programs. Course will prepare caregivers of infants at risk for appropriate program planning. TB test and out-of-class observations required.

■ CHLD 91 — Early Childhood Development Field Work 1 Unit Degree Applicable, CSU

(May be taken for Pass/No Pass only)

75 hours lab

Prerequisite: CHLD 67 and CHLD 67L

Corequisite: CHLD 69

A teacher-supervised work experience course which permits students to apply early childhood development principles in community preschools. CHLD 69 Seminar will supplement student's progress. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. TB test is required.

■ CHLD 92 — Family Child Care

3 Units
Degree Applicable

54 hours lecture

Advisory: CHLD 1, 5, 6 and 10

An overall view of home-based early education programs which includes standards of quality for the field of family child care in relationships, environments, activities, developmental learning goals, safety/health, professional and business practices.

CHINESE

■ CHIN 1 — Elementary Chinese

4 Units

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 culture.

■ CHIN 2 — Continuing Elementary Chinese 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prereauisite: CHIN 1 or equivalent

Further develops conversational, reading, and writing skills in Mandarin Chinese with special emphasis on verbs, grammar, and extension of vocabulary.

■ CHIN 3 — Intermediate Chinese

4 Units Degree Applicable, CSU, UC

72 hours lecture

Prereauisite: CHIN 2 or equivalent

Further development of Mandarin Chinese language skills and their use as tools in exploring Chinese civilization. Further study and review of grammar, exercises in word building, derivation, and the extension of the active and recognition vocabularies.

■ CHIN 4 — Continuing Intermediate Chinese 4 Units Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: CHIN 3 or equivalent

Enables students to use Mandarin in traveling, telling stories, describing experiences and discussing Chinese literary works, festivals and food. Students learn advanced grammar such as the directional and potential complements, repetition of adjectives, the focus construction, the ba and bei structures.

COMPUTER GRAPHICS

■ GRAP 8 — Fundamentals of Digital Media

Degree Applicable, CSU

3 Units

36 hours lecture

54 hours lab

Introductory course for all disciplines interested in learning scientific concepts, terminology, and basic techniques used to produce digital media content. Includes software such as Adobe Photoshop, Apple iPhoto and iMovie, and computer and other electronic hardware techniques necessary to acquire, store, edit, transfer, or output digital media files.

■ GRAP 9 — Digital Color Management

3 Units Degree Applicable

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

36 hours lecture

54 hours lab

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.

■ GRAP 10 — Photoshop Imagery

3 Units

Degree Applicable

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

36 hours lecture

54 hours lab

Adobe Photoshop software skills, techniques and digital workflow practices from digital image editing and retouching to the composited imagery commonly created for use in photography, commercial design, printing and publishing, the internet and multimedia authoring production.

■ GRAP 12 — Photoshop Imagery Extended

Degree Applicable

3 Units

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

36 hours lecture

54 hours lab

Prerequisite: GRAP 10

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.

■ GRAP 15 — InDesign Graphics

3 Units

Degree Applicable

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

36 hours lecture

54 hours lab

Adobe InDesign software skills, techniques and digital workflow practices commonly created for use in essential computer graphics production processes for commercial design, printing and publishing, the Internet and multimedia authoring production.

■ GRAP 16 — Illustrator Graphics

3 Units

Degree Applicable

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

36 hours lecture

54 hours lab

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.

■ 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

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.

■ GRAP 20 — Multimedia Graphics

3 Units

Degree Applicable

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

36 hours lecture

54 hours lab

Multimedia graphics software skills and production techniques for combining text, image, audio, video, animation and scripting media to author multimedia projects commonly created for selfexpression, entertainment, commercial design, the internet, and multimedia production.

■ GRAP 28 — Digital Portfolio

3 Units

Degree Applicable

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

36 hours lecture

54 hours lab

Prerequisite: GRAP 12 and GRAP 20

Preparation of a personal computer graphics portfolio containing key samples of work for presentation or career evaluation. The portfolio displays the learner's skills mastery, knowledge, and capacities for communicating, synthesis, and problem solving.

■ GRAP 30 — Digital Productions

3 Units

Degree Applicable

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

36 hours lecture

54 hours lab

Computer graphics production techniques and practices used in media creation and authoring professional projects commonly created for use in photography, commercial design, printing and publishing, the Internet and multimedia authoring production.

2 Units ■ GRAP 40 — Computer Graphics Special Topics Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

18 hours lecture

54 hours lab

Special topics expanding the essential knowledge, skills, production techniques and proficiency of Computer Graphics commonly created for self-expression, entertainment, commercial design, the Internet, and multimedia production.

COMPUTER INFORMATION SYSTEMS: AUXILIARY

■ CISX 94 — Laboratory Studies in Computer 1 to 3 Units Information Systems

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 to 162 hours lab

Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability

This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Computer Information Systems.

COMPUTER INFORMATION SYSTEMS: BEGINNING

3.5 Units ■ CISB 11 — Computer Information Systems

Degree Applicable, CSU, UC

54 hours lecture

27 hours lab

Overview of computer information systems including computer hardware, software, networking, programming, databases, Internet, security, systems analysis, ethics, and problem solving using business applications.

■ CISB 13 — Microsoft Windows

2 Units

Degree Applicable, CSU

27 hours lecture

27 hours lab

Hands-on instruction using Microsoft Windows Operating System to manage files, folders, and disks. Includes personalizing the Windows environment and browsing the web using Internet Explorer.

■ CISB 15 — Microcomputer Applications 4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Introduction of windows based operating system and applications. Simple business examples using up-to-date browser, word processing, spreadsheet, database management and presentation software; and integration of software applications. Hands-on instruction on windows based computers.

■ CISB 16 — Macintosh Applications

2 Units

Degree Applicable, CSU

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

27 hours lecture

27 hours lab

Formerly COMP 10.

Apple's Macintosh computer, Mac OS X operating system, and related word processing, database, spreadsheet, and multimedia applications.

■ CISB 21 — Microsoft Excel

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Spreadsheet concepts using Microsoft Excel including formatting, formulas and functions, charts, linked worksheets, pivot tables, macros, and Visual Basic for Applications (VBA) code.

■ CISB 31 — Microsoft Word

3 Units

Degree Applicable

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

Advisory: CISB 13 and (ability to type 25 words a minute or CISI 11) Word processing with Microsoft Word and its editing, formatting, and language tools to create, edit and format business and publication documents. Includes creating flyers, newsletters, and other publication documents using advanced formatting techniques and tools.

■ CISB 51 — Microsoft PowerPoint

3 Units

Degree Applicable, CSU

54 hours lecture

Formerly COMP 50.

Using PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation, and movies

■ CISB 61 — Desktop Publishing Software

3 Units Degree Applicable, CSU

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

54 hours lecture

Formerly COMP 60.

Using desktop publishing software to integrate text and various graphic objects, design, edit, and produce a variety of high-quality business publications.

COMPUTER INFORMATION SYSTEMS: DATABASE

■ CISD 11 — Database Management - Microsoft Access 4 Units Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: COMP 12 or CISB 11 and CISB 15

Design, creation, and management of relational databases using Microsoft Access or similar Database Management Software (DBMS), Basic database design, creation of tables, queries. forms, reports, data access pages, and macros. Creation of custom graphical user interface using Switchboard Manager and Visual Basic (VB) code. Extensive hands-on experience on a Windows-based PC.

4 Units ■ CISD 14 — Advanced Database Management -Microsoft Access

Degree Applicable

54 hours lecture 54 hours lab Advisory: CISD 11

Advanced Microsoft Access programming techniques using Visual Basic for Applications (VBA) language; event-driven programming; Access Object Model, Data Access Objects (DAO) model, ActiveX Data Objects (ADO) model; VBA structures, arrays, error handling, multi-user applications, transaction processing, client-server; security issues. Extensive hands-on experience on a Windows-based PC.

■ CISD 21 — Database Management - Microsoft SQL Server 4 Units Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: CISB 11 or CISB 15

Structured guery 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.

4 Units ■ CISD 31 — Database Management - Oracle Degree Applicable, CSU

54 hours lecture 54 hours lab Advisorv: CISB 11

Oracle database management system (DBMS) functions, concepts, and terms, PL/SQL is used to code, test, and implement stored procedures, functions, triggers, and packages, Relational database projects will be built using PL/SQL.

■ CISD 40 — Database Design

3 Units Degree Applicable, CSU

54 hours lecture

Advisorv: CISD 11

Database design principles. Understanding database needs and functions, creating data models, entity-relationship (E-R) and Unified Modeling Language (UML) diagrams, using normalization rules and principles to create properly-designed databases. learning basic database administrator objectives and tasks, and understanding the role of data warehousing and data mining.

COMPUTER INFORMATION SYSTEMS: INFORMATION PROCESSING

■ CISI 11 — Computer Keyboarding

3 Units 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.

■ CISI 41 — Office Management Skills

3 Units Degree Applicable

54 hours lecture Advisory: CISI 11 or CISI 11A

Formerly COMP 28.

Training and skill building in filing systems and procedures, proofreading, telephone techniques, faxing, emailing, and electronic calendaring of events, appointments and meetings.

COMPUTER INFORMATION SYSTEMS: MANAGEMENT

■ CISM 11 — Systems Analysis and Design 3.5 Units

Degree Applicable, CSU, UC

54 hours lecture

27 hours lab

Advisory: CISB 15 or COMP 12 and CISB 11

Develops basic understanding of information systems, general system solutions and the discipline of systems analysis in relation to the information system life cycle. Develops skills in applying the tools, techniques, and concepts of systems analysis to information systems development.

COMPUTER INFORMATION SYSTEMS: NETWORKING

■ CISN 11 — Telecommunications Networking 4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisorv: CISB 11

Computer Network Administration and Security Management (CNASM) core. Cisco Certified Network Associate (CCNA) 1st vear certification. Concepts and designs in telecommunications and networking. Network standards, TCP/IP v4 and v6, Open Systems Interconnection (OSI), network protocols, transmission media, hardware architecture, local area network, wide area network, remote connectivity, network operating system (Microsoft Windows and Linux), troubleshooting, maintaining, upgrading network, network and wireless security, vulnerability, and network sniffing.

■ CISN 21 — Windows Operating System

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: CISB 11 or (CISB 15 or COMP 12)

Employing a Windows operating system to manage disks, files and applications. Install, analyze and debug Windows operating system environment problems. Secure a Windows environment. Configure advance features of a Windows operating system.

■ CISN 24 — Window Server Network and 4 Units Security Administration

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisorv: 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 systems and system resources.

■ CISN 34 — Linux Networking and Security 4 Units

Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: CISN 31

Network installation and management using Linux operating system and its security components. In-depth study of concepts TCP/IP, IP addressing, network protocols and servers, gateways, routers, bridges and applications. Creating Linux intranets and connecting to Internet.

■ CISN 51 — Cisco CCNA Networking and Routing 4 Units Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: CISN 11

Computer Network Administration and Security Management (CNASM) core. Preparation for Cisco Certified Network Associate (CCNA) certification. Design and configuration of local area networks (LANs), wide area networks (WANs), advanced Internet protocol (IP) subnet, TCP/IP, interior gateway protocol (IGP), exterior gateway protocol (EGP), and network design. Configuration of Cisco Internetwork operating system (IOS), router, switch, virtual LAN (VLAN), access control lists (ACLs), wireless, Internet protocol version 6 (IPv6), point-to-point protocol (PPP), high-level data link (HDLC), and routing protocols including static route, routing information protocol (RIP), interior gateway routing protocol (IGRP), enhanced interior gateway routing protocol (EIGRP), and open shortest path first (OSPF).

■ CISN 61 — Virtualization Technology

3 Units

Degree Applicable

54 hours lecture

Advisory: CISB 11 or CISN 21 or CISN 31

Plan, configure, secure, install, and maintain latest virtual systems from VMware, Microsoft, and other companies.

COMPUTER INFORMATION SYSTEMS: PROGRAMMING

■ CISP 10 — Principles of Object-Oriented Design 2 Units Degree Applicable, CSU

27 hours lecture

27 hours lab

Advisory corequisite: CISP 11 or CISP 21 or CISP 31 or CISP41 Object-oriented design, patterns, and use of UML in different programming languages that will enable students to build large packages and business applications.

■ CISP 11 — Programming in Visual Basic 4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: CISB 11 or CISB 15 or computer work experience

Programming using Visual Basic. Planning and writing objectoriented applications using Windows Forms and Web Forms; user interface design classes, objects, properties, methods and events; control structures; lists and arrays; printing and Print Previews; accessing a database.

■ CISP 14 — Advanced Visual Basic Programming 4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: CISP 11

Advanced computer programming concepts using Visual Basic. NET as the programming language. Designing, coding, testing, and implementing object-oriented multiple tier programs; program design using Unified Modeling Language; using data adapters, object linking and embedding (OLE) objects and dynamic link libraries (DLLs); incorporating XML, Web forms, and Web services; creating and updating sequential and random files; validating input data; trapping errors; designing, displaying, searching, and updating database tables; creating record sets using SQL and database reports using Crystal Reports, producing business graphics; using distributing applications; creating components, collections. and help files.

■ CISP 21 — Programming in Java

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: CISB 11 or CISB 15

Programming using Java as the programming language. Design and develop object-oriented programs and Web-based applets; documentation and debugging techniques; user-interface, objects, properties, methods, and events; elementary control structures, lists, arrays, streams and serialization. Provides students with hands-on experience.

■ CISP 24 — Advanced Java Programming

nming 4 Units
Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: CISP 21

Advanced object-oriented programming concepts and techniques in Java. Course is designed to teach serialization, multithreading, advanced Swing components, networking, server-side technology (servlets, remote method invocation (RMI), Java server pages), Java Database Connectivity (JDBC), Java Beans, public key infrastructure (PKI) security.

■ CISP 31 — Programming in C++

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: CISP 11 or CISP 21

Object-oriented programming using C++ as the programming language. Object oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, single and multiple inheritance.

■ CISP 34 — Advanced C++ Programming

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: CISP 31

Advanced object-oriented programming concepts and principles of object-oriented design in C++. Data structures: vectors, linked lists, queues, stacks and hash tables. Programs with graphical-user interface. Access to a database. Web services.

■ CISP 41 — Programming in C#

4 Units

Degree Applicable, CSU

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

54 hours lecture

54 hours lab

Advisory: CISB 11 or CISB 15

Plan, develop and debug C# applications using Windows Forms and Web Forms. Course covers loops, if statements, switch blocks, database connections, multiple forms, object-oriented programming concepts. Course taught in hands-on environment and requires projects implementing each concept.

■ CISP 44 — Advanced Programming in C#

4 Units

Degree Applicable

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

54 hours lecture

54 hours lab

Prerequisite: CISP 41 or industry experience in C#

Advanced programming concepts using C#. Designing, coding, testing and implementing object-oriented multi-tier applications; displaying, searching, and updating SQL client databases with both Windows Forms and Web Forms; creating user controls, Web Services, and container classes; creating help files, deploying applications, and developing mobile applications.

■ CISP 52 — Mobile Device Programming

3 Units Degree Applicable

54 hours lecture Coreauisite: CISP 52L Advisory: CISP 10 and CISW 21

Mobile device programming covers user interface patterns and design, connectivity, and application architecture design. Student must be enrolled in CISP 52L, a concurrent lab co-requisite.

■ CISP 52L — Mobile Device Programming Laboratory .5 Unit Degree Applicable

27 hours lab

Corequisite: CISP 52

Mobile device programming laboratory: user interface, connectivity, and application architecture and design. Student must be enrolled in CISP 52, a concurrent lecture co-requisite.

COMPUTER INFORMATION SYSTEMS: SECURITY

■ CISS 11 — Practical Computer Security

2 Units

Degree Applicable

27 hours lecture 27 hours lab Advisory: CISB 11

Introductory course in computer security. Provides awareness for all computer users to protect user accounts and computer systems from attacks. Projects illustrate security software and hardware configuration.

■ CISS 13 — Principles of Information Systems Security 4 Units Degree Applicable

54 hours lecture

54 hours lab Advisory: CISB 11

Information systems security preparation for the Certified Information Systems Security Professional (CISSP), Includes legal. business, and ethical topics.

■ CISS 15 — Operating Systems Security

4 Units Degree Applicable

54 hours lecture 54 hours lab

Advisory: CISB 11, CISN 21

Advanced aspects of operating systems security from how attackers operate to how viruses strike. Covers strengthening operating systems and repelling attacks, and applying security concepts and techniques to different operating systems (Windows. Unix etc.)

■ CISS 21 — Network Vulnerabilities and Countermeasures 4 Units Degree Applicable, CSU

54 hours lecture

54 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. 4 Units **Intrusion Detection/Prevention Systems**

Degree Applicable, CSU

54 hours lecture

54 hours lab

CNASM (Computer Network Administration and Security Management) AS degree core course. Cover IDS/IPS (intrusion detection/prevention systems) and network protocol and analyzing tools. Discuss qualities that go into a sound and appropriate IDS/ IPS in different scenarios. Hands-on practice of the tools such as Snort, Cisco IDS/IPS sensor, Sniffer, Ethereal, WildPackets. TCPDump, to detect network attack and troubleshoot network nroblems.

■ CISS 25 — Network Security and Firewalls 4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Design secure networks by implementing and configuring firewalls, DMZ, and VPNs for enterprise, medium, and small businesses. Includes designing, installing, configuring, maintaining, troubleshooting, and monitoring firewall solutions by Cisco and other leading firewall manufacturers.

■ CISS 27 — Defending Computer Systems 1 Unit Degree Applicable

(May be taken four times for credit)

54 hours lab

Advisories: CISN 11, CISS 21, CISS 23, CISS 25

Team-oriented practice installing and setting-up security in computer and network systems. Includes hands-on activities defending, responding, mitigating, and analyzing security attacks along with preparing written reports documenting how the system was defended.

■ CISS 29 — CNASM Service Learning

1 Unit

Degree Applicable, CSU

(May be taken four times for credit)

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

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 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.

■ CISW 15 — Web Site Development

4 Units

Degree Applicable, CSU

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

54 hours lecture

54 hours lab

Advisory: CISB 13 or (CISB 15 or COMP 12) or CISB 16 (formerly COMP 10)

Formerly COMP 13.

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.

■ CISW 21 — Secure Web Programming with ASP.NET 4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: CISB 15 or CISW 11

Acquire secure programming skills for designing user interfaces, processing user input, and accessing Web servers and databases. Use secure coding techniques with Web programming, scripting and markup languages like XHTML, Dynamic HTML, CSS, XML, Javascript, AJAX, ASP.NET with VB.NET.

■ CISW 24 — Secure Server Side Web Programming 4 Units Degree Applicable

54 hours lecture 54 hours lab

Advisorv: CISW 11

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

34 110u1 3 1ab

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.

■ CISW 41 — XML Secure Programming

3 Units

Degree Applicable

54 hours lecture Advisory: CISW 21

Principles, components and benefits of the Extensible Markup Language (XML), including concepts of XPointers, XLink, and XSLT. Apply secure XML programming using DOM and SAX and standards such as canonicalization, signatures and encryption.

■ CISW 49 — Service Oriented Architecture Concepts 3 Units and Practice

Degree Applicable

54 hours lecture

Advisory: CISW 41

Fundamentals, definitions, standards and case studies of Service 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

■ CSCI 110 — Fundamentals of Computer Science 3.5 Units Degree Applicable, CSU, UC

54 hours lecture

27 hours lab

Prerequisite: MATH 71 or MATH 71B or equivalent

Advisory: Eligibility for ENGL 1A

Basic concepts of computer hardware and software. General computer organization and information representation. Binary and hexadecimal number systems. Algorithm design and problemsolving techniques. Introduction to programming using a high level language (C, C++ or Java.)

■ CSCI 140 — C++ Language and Object Development Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: CSCI 110 or equivalent programming experience

For computer science, mathematics, engineering and other science students. Introduction to C++ programming and object-oriented paradigm. Control structures, functions, arrays, pointers and strings, classes and data abstraction, C++ object programming, operator overloading, inheritance, virtual functions and polymorphism, stream input and output, templates, exception handling, file processing. Introduction to data structures in C++, string processing and recursion.

■ CSCI 145 — Java Language and Object 4 Units Oriented Programming

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: CSCI 110

Introduction to Java language and object oriented programming with Java as well as general concepts and techniques of computer programming. Topics include: Java expressions, flow control, methods and program structure, Java classes, overloading, object references, inheritance, Java library packages, exceptions, file I/O, applets, GUI, and event handling. A course for computer science, engineering, mathematics, and other science students.

■ CSCI 150 — Assembly Language/Machine Architecture 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: CSCI 110

Corequisite: CSCI 150L

Organization and operation of real computer systems at the assembly language level using the Intel 80x86 family of processors; mapping statements and constructs in a high-level language onto sequences of machine instructions; internal representations of simple data types and structures; numerical computation, noting various data representation errors and potential procedural errors; investigation of basic principles of operating systems; and programming language translation process.

■ CSCI 150L — Assembly Language Laboratory 1 Unit Degree Applicable, CSU, UC

(May be taken for Pass/No Pass only)

54 hours lab

Coreauisite: CSCI 150

Advisory: CSCI 140; language experience programming general and scientific algorithms and data structures in C++ or Java strongly recommended

Complements the lecture material in CSCI 150. Development/debugging of assembly language programs.

■ CSCI 170 — Introduction to Unix Operating System 3.5 Units Degree Applicable, CSU, UC

54 hours lecture

27 hours lab

Prerequisite: Completion of CSCI 110

Introduction to the UNIX operating system, system administration and networking. Topics include: process synchronization and communication mechanisms, process management, scheduling and protection, memory organization and management, virtual memory, I/O devices management, file systems, networking, system administration for UNIX.

■ CSCI 190 — Discrete Mathematics Applied to 4 Units Computer Science

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 71 or equivalent

Provides students with the mathematical background necessary in Computer Science: set theory, logic, modular arithmetic, combinatorics, finite probability and graphs. Topics include propositional and predicate calculus, recursion, binary search trees and counting techniques.

■ CSCI 210 — Applied Logic for Computers

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: CSCI 110

Basic concepts of digital systems, introduction to Boolean algebra, truth tables, Karnaugh maps, combinational elements and networks, state diagrams, state tables, sequential elements and networks.

■ CSCI 220 — Data Structures I

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: CSCI 140 or CSCI 145

Coreauisite: CSCI 220L

Abstract data types and running time analysis tools. Linear data structures including sets, stacks, queues, and linked lists. Trees, binary search trees, heaps, and priority queues. Many procedures are discussed using an algorithmic language and selected problems are programmed in a higher level language.

■ CSCI 220L — Data Structures I Laboratory 1 Unit

Degree Applicable, CSU, UC

(May be taken for Pass/No Pass only)

54 hours lab

Coreauisite: CSCI 220

An independent study program designed to complement the lecture material presented in CSCI 220, Data Structures. Handson computer work will include problem solving in linear data structures, strings, and trees.

■ CSCI 230 — Data Structures II

3 Units
Degree Applicable, CSU, UC

54 hours lecture Prerequisite: CSCI 220 Corequisite: CSCI 230L

Basic searching/sorting algorithms, hashing, graphs, memory/ disk management, B-trees, advanced tree structures and analysis.

■ CSCI 230L — Data Structures II Laboratory 1 Unit Degree Applicable, CSU, UC

(May be taken for Pass/No Pass only)

54 hours lab

Corequisite: CSCI 230

An independent study program designed to complement the lecture material presented in CSCI 230, Data Structures II. Hands on computer work will include problem solving in searching, sorting, and graphs.

COMPUTER AND NETWORKING TECHNOLOGY

■ CNET 50 — PC Servicing

4 Units
Degree Applicable

54 hours lecture 54 hours lab

Advisory: ELEC 50A and ELEC 50B taken prior or concurrently PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment.

■ CNET 52 — PC Operating Systems

4 Units
Degree Applicable

54 hours lecture 54 hours lab

Advisory: CNET 50 taken prior

Current operating systems required for A+ and Network+ Certification and general computer servicing. Topics include: identification of major components, installation, configuration, upgrading and troubleshooting.

■ CNET 54 — PC Troubleshooting

4 Units
Degree Applicable

54 hours lecture 54 hours lab

Advisory: CNET 50 taken prior

Advanced microcomputer servicing. Includes: isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam.

■ CNET 56 — Computer Networks

4 Units Degree Applicable

54 hours lecture

54 hours lab

Advisory: CNET 54 taken prior

Standards, terminology, design, implementation and trouble-shooting techniques as they relate to both Local and Wide Area Networks. Emphasis on hardware and software components, network architecture and data transmission methods. Of special interest to computer and network technicians and those seeking certification in A+, Network+, or other MSCE certifications.

■ CNET 58 — Server Systems

3 Units
Degree Applicable

36 hours lecture 54 hours lab

Advisory: CNET 56

Server installation, configuration, and management. Includes hardware and software components, virtual server configurations, troubleshooting techniques using flow charts and diagnostic tools, and disaster recovery concepts. Emphasis on hardware components. Covers the core material needed for the Server+ Certification.

■ 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.

■ CNET 62 — Network+ Certification Preparation 2 Units Degree Applicable

36 hours lecture

Advisory: CNET 56

Prepares the student and/or A+ certified technician for the Network+ Certification Examination. Individuals preparing for a job in the computer networking industry or who wish to become Network+ certified will find this course invaluable.

■ CNET 64 — Server + Certification Preparation 2 Units Degree Applicable

36 hours lecture

Advisorv: CNET 58

Prepares the computer/network service technician for the Comp-TIA Server+ certification examination.

■ CNET 66 — Security + Certification Preparation 2 Units

Degree Applicable

36 hours lecture

Advisory: CNET 54 and CNET 56 taken prior

Prepares the computer/network service technician for the CompTIA sponsored Security+ Certification examination. Security information is covered only as it pertains to enabling the service technician to troubleshoot a computer system that may have a security problem.

CORRECTIONAL SCIENCES

■ CORS 10 — Introduction to Correctional Sciences 3 Units

Degree Applicable, CSU

54 hours lecture

Overview of the field of corrections: county jail, probation, the California Youth Authority and the Department of Corrections as a member of the Criminal Justice System. Includes philosophy, past and the present practices and the criminal justice and correctional processes.

■ CORS 15 — Control and Supervision of the Offender 3 Units Degree Applicable

54 hours lecture

Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions.

■ CORS 20 — Correctional Law

3 Units

Degree Applicable

54 hours lecture

Legal and due process rights for inmates. Inmate rights vs. needs of society. State, federal, and appellate court decisions.

■ CORS 25 — Probation and Parole

3 Units

Degree Applicable

54 hours lecture

Historical development of probation and parole with emphasis on current California programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies.

■ CORS 30 — Ethnic Relations in Corrections

3 Units Degree Applicable

54 hours lecture

Historical development of probation and parole with emphasis on current California programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies.

■ CORS 35 — Interviewing and Counseling in Corrections 3 Units Degree Applicable

54 hours lecture

Techniques of interviewing and counseling in the field of corrections with emphasis on practical application. Needs of the client and agency will be stressed.

■ CORS 40 — Crime and Delinquency

3 Units

Degree Applicable

54 hours lecture

Criminal behavior and types of crime and effects on society and victims. Stresses property crime, property offender, motivation, and methods of control used by society.

■ CORS 45 — The Violent Offender

3 Units

Degree Applicable

54 hours lecture

Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim.

COUNSELING

■ COUN 1 — Introduction to College

1 Unit

Degree Applicable, CSU Designed for group experie

(May be taken for Pass/No Pass only)

18 hours lecture

Higher education and the college experience including orientation to college life and higher education resources. Explores graduation, transfer, career options, factors in educational decision making, and educational planning.

■ COUN 2 — College Success Strategies

3 Units

Degree Applicable, CSU, UC

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

Assists students in evaluating their readiness for a successful college experience. Explores strategies and techniques to be an effective college student, including time management, study skills, college resources, career exploration and educational planning. Develops skills necessary to reach educational and career goals.

■ COUN 5 — Career/Life Planning

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

A systematic approach to self-exploration and career/life planning which includes identification of values, interests, skills and self-management style. Develop decision-making and goal-setting skills and identify barriers to success. Explores careers and job search techniques.

■ COUN 7 — Introduction to the Transfer Process 2 Units

Degree Applicable, CSU

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

36 hours lecture

Advisory: Eligibility for ENGL 1A

Introduction and orientation to the transfer process to a four-year institution. Includes an in-depth exploration of transfer requirements, admission procedures and requirements for majors. Also explores academic and support services, financial aid and other transitional issues to enable students to make informed choices on majors and four-year institutions and in academic planning. Field trips are required.

■ COUN 20 — Peer Counselor Training

2 Units

Degree Applicable, CSU

36 hours lecture

Prerequisite: Eligibility for ENGL 68

Designed for group experiences with interpersonal communication and discussion of approaches to peer counseling and advising at Mt. SAC. Provides opportunities for students to develop skills with a variety of communication styles that include open expression, active listening, and feedback. Upon completion of this course, opportunities may be available for students to become employed as peer counselors.

■ COUN 51 — Career Planning

1 Unit

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

18 hours lecture

Designed for students who want assistance in making career decisions. A variety of assessments, inventories, and computer generated information will be used in analyzing the student's potential in the world of work.

■ COUN 54 — Single Parent Academy

3 Units Degree Applicable

54 hours lecture

Develop personal, educational, and career/life planning skills for single parents.

■ COUN 99A — Special Projects in Counseling .5 to 2 Units Degree Applicable, CSU

(May be taken four times for credit)

47 to 119 hours lab

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, various departments from time to time offer Special Projects courses. This course will focus on establishing career and educational goals for students. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. A field trip may be required.

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)

36 to 108 hours lab

Introduces fundamental vocabulary, technique, and movement combinations for ballet. Includes floor work, barre work, center work, floor progressions, and musicality and phrasing. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 2A — Ballet I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Beginning vocabulary, technique, and movement combinations for ballet. Includes barre work, center floor work, floor progressions, preparation for turning, and musicality and phrasing. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 2B — Ballet II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Intermediate technique, vocabulary and movement combinations for ballet. Includes intermediate barre work, demi-pointe work, use of epaulement and increasingly difficult center floor combinations. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 3 — Ballet Performance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Introduces the experienced dance student to the performance aspect of ballet. Includes advanced barre work, center work, floor progressions and performance of classical ballet variations. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 4 — Choreography

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours lab

Prerequisite: DNCE 12A or DNCE 12B or DNCE 13

Designed for the experienced dancer to learn the techniques of choreography. Presents basic choreographic forms and compositional design. Students who repeat this course will improve technical and compositional skills through further practice and instruction.

■ DNCE 11A — Social Dance Forms I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Fundamentals of music, dance positions, dance formations and choreography to be used in the study of, but not limited to Swing, Salsa, Waltz, Foxtrot and Tango. Students who repeat this course will improve skills through further instruction and practice. Off-campus assignment may be required.

■ DNCE 11B — Social Dance Forms II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Advanced social dance techniques. Improve fundamentals of music, dance positions, dance formations and choreography to be used in the study of, but not limited to Swing, Salsa, Waltz, Foxtrot and Tango. Students who repeat this course will improve proficiency through continued instruction and practice. Off-campus assignment may be required.

■ DNCE 12A — Modern I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Basic vocabulary, technique, and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 12B — Modern II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) $36\ to\ 54\ hours\ lab$

Intermediate technique and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 13 — Modern Performance

.5 to 2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours lab

The experienced dance student studies the performance aspects of modern dance including advanced technique, choreographic elements and performance. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 14A — Jazz I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Beginning vocabulary, technique, and movement combinations for jazz dance. Includes warm-up, progressions and center floor routines. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 14B — Jazz II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Intermediate vocabulary, technique, and movement combinations for jazz dance. Includes warm-up, progressions and center floor routines. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 15 — Jazz Performance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Introduces the experienced dancer to the performance aspect of jazz dance by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 17 — Jazz Fundamentals

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours lab

Introduces fundamental vocabulary, technique, and movement combinations for jazz dance. Includes floor work, center work, floor progressions, routines and musicality and phrasing. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 18A — Tap I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Beginning level technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 18B — Tap II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Intermediate technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 19 — Tap Performance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Introduces the experienced dancer to the performance aspects of tap by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 22 — Dance Rehearsal

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Designed for the experienced dancer to work in a rehearsal environment and to be a participant in the beginning elements of concert production. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 24 — Dance Production

1 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

54 to 108 hours 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.

■ DNCE 28 — Theater Dance I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Provides an opportunity to learn simple dance excerpts from various theater musicals and/or movies. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 29 — Theater Dance II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Provides an opportunity to learn complex dance excerpts from various theater musicals and/or movies. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 30 — Contemporary Dance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Opportunity for the beginning to advanced dancer to experience different techniques of leading contemporary dancers and choreographers. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 31 — Classical Dance

.5 to 2 Units

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 lab

Provides the proficient ballet student the opportunity to experience the different schools of ballet technique. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 32 — Commercial Dance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Provides the intermediate to advanced jazz dancer the opportunity to experience the different techniques of leading commercial dancers, teachers and choreographers. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 33 — Improvisation

.5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Improvisation in dance and choreography. For all levels of dance. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 34 — Dance Directives

.5 to 1 Unit

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Prerequisite: Admission by audition

Provides the intermediate or advanced student the practical experience to assist an instructor in the creation and instruction of a dance class. Students who repeat this course will improve proficiency through continued instruction and practice.

■ DNCE 35 — Repertory

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours 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.

■ DNCE 39A — Alignment and Correctives I

ctives I .5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Pilates method of conditioning.Includes mat-work, Reformer and special conditioning exercises and body awareness resulting in improved alignment, strength, flexibility, control, coordination and breathing. Students who repeat this course will improve skills through further instruction and practice.

■ DNCE 39B — Alignment and Correctives II .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours lab

Advisory: DNCE 39A

Pilates method of conditioning. Intermediate mat-work, Reformer and basic Wunda Chair repertoire focusing on developing improved body alignment, strength, flexibility and control. Students who repeat this course will improve skills through further instruction and practice.

lacktriangle DNCE 40 — Conditioning Through Dance

ance .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 lab

Improves fitness through the coordination of dance exercises. Focuses on strength, flexibility and range of motion. Designed for the dancer and non-dancer. Students who repeat this course will improve skills through further instruction and practice.

DANCE: THEORY

■ DN-T 18 — Introduction to Dance

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

A survey of the profession of dance and its various art forms through lecture, discussion, demonstration, and participation. Includes multi-cultural dance interpretations.

■ DN-T 20 — History and Appreciation of Dance

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Survey of dance in western civilization. History of dance in chronological sequence emphasizing the cultural background and historical development of various forms and styles of dance to include discussion of the influence of dance on other art forms.

■ DN-T 27 — Theory and Principles of Pilates

3 Units

Degree Applicable

54 hours lecture

Prereauisite: DNCE 39A

Teaching skills for the pilates method of physical and mental conditioning. Concepts and principles as applied to the mat and apparatus repertoire.

■ DN-T 28 — Functional Anatomy for Pilates

2 Units

Degree Applicable

36 hours lecture

Functional human anatomy as applied to the Pilates method of conditioning.

■ DN-T 29 — Teaching Pilates Mat

1.5 Units
Degree Applicable

18 hours lecture

36 hours lab

Corequisite: DN-T 27 (may have been taken previously)

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

Degree Applicable

18 hours lecture 36 hours lab

Prereauisite: 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.

■ DN-T 31 — Pilates Teaching-Mat and Reformer 3 Units Degree Applicable

18 hours lecture

108 hours lab

Prerequisite: DN-T 28 and DN-T 30

Prepares students to teach Pilates in a variety of settings and situations. Teaching reinforces knowledge and understanding of the Pilates exercises. Includes lecture, observation, selfintegration, assistant teaching, one-on-one teaching and content. Off-campus observations may be required.

■ DN-T 32 — Teaching Pilates Cadillac and Wunda 1.5 Units **Chair Repertoire**

Degree Applicable

18 hours lecture 36 hours lab

Prerequisite: DN-T 27 and DN-T 29 and DN-T 30

Learning to teach the Pilates repertoire of exercises on the Cadillac and Wunda Chair. All levels are covered with a focus on the development of correct neuromuscular patterning.

1.5 Units ■ DN-T 33 — Teaching Pilates Ped-a-Pul, Barrels and Auxiliary Equipment Repertoire

Degree Applicable

18 hours lecture 36 hours lab

Prerequisite: DN-T 30 and DN-T 32

Learning to teach Pilates exercises on the following apparatus: Ped-a-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 and Auxiliary Equipment

Degree Applicable

18 hours lecture 108 hours lab

Prerequisite: DN-T 33

Prepares students to teach Pilates in a variety of settings and situations. Teaching reinforces knowledge and understanding of the Pilates exercises and concepts. Includes lecture, observation, self-integration, assistant teaching and one-on-one teaching. Offcampus observations may be required.

■ DN-T 38 — Dance Teaching Methods

3 Units Degree Applicable

36 hours lecture

54 hours lab

Coreauisite: DNCE 2B or DNCE 12B or DNCE 14B

The application of pedagogical methods in Dance. Explores teaching 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 offcampus dance teaching observations.

DISABLED STUDENTS

■ DSPS 10 — College Success Strategies for Students 3 Units with Disabilities

Not Degree Applicable

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

54 hours lecture

Advisory: Eliaibility for READ 80

Explores strategies for success in college for students with disabilities. Topics include self-advocacy, college resources, selfmanagement, educational accommodations, effective learning methods, and goal setting.

■ DSPS 12 — Career Exploration and Planning for 3 Units Students with Disabilities

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Advisory: Eligibility for ENGL 67 and READ 80

Assists students with a systematic approach to self-exploration. occupational research and career decision-making. Students will identify interests, personality style, and skills. Educational and functional limitations, as well as reasonable accommodations will be explored. Designed for students with disabilities.

■ DSPS 15 — Personalized Career Exploration for 1 Unit Students with Disabilities

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

18 hours lecture

Self-evaluation including interests, experiences, personality, values, and disability-related limitations as they relate to educational and career decisions. Identification of skills and resources. including those that relate to disability factors. Students who repeat this course will improve skills through further instruction and practice.

■ DSPS 16 — Educational and Career Options for 1 Unit Students with Disabilities

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

18 hours lecture

Students will identify educational and career options. Emphasis on strategies that facilitate disability-sensitive career and educational planning. Barriers to employment and other disability issues are addressed. Students who repeat this course will improve skills through further instruction and practice.

■ DSPS 20 — Improving Spelling and Reading of Words 3 Units Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lecture

Improve reading and spelling skills for multi-syllabic words. Includes sounding out letters, oral movements, and common "rules" for reading and spelling words. Designed for studens with learning disabilities. Students who repeat this course will improve skills through further instruction and practice.

■ DSPS 30 — Academic Success Strategies for 1 Unit Students with Disabilities

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lab

Advisory: Concurrent enrollment in ENGL 67 or above, or MATH 50 to MATH 130

Strategies for academic success in relationship to disabilities. Primary emphasis will be on the effects of and strategies for auditory processing, language expression, memory, fluid reasoning and performance speed. Secondary emphasis will be on strategies to improve subject-specific performance. Students who repeat this course will improve skills through further instruction and practice.

■ DSPS 31 — Memory Strategies for Students 3 Units with Disabilities

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lecture

Advisory: Eligibility for READ 80. Student should have at least one other academic class for application of strategies.

Principles of the memory process as it applies to academic coursework. Focus on understanding the memory process. improving specific memory components, identifying key concepts to memorize, and the independent application of memory strategies to students' other academic courses. Students who repeat this course will improve skills through further instruction and practice.

■ DSPS 32 — Technology for Students with Learning Disabilities

3 Units

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lecture

Advisory: Eligibility for ENGL 67 or AMLA 42W and READ 80 or AMLA 32R. Concurrent 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.

■ DSPS 33 — Strategies for Success in Math for Students with Disabilities

3 Units

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lecture

Advisory: 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.

■ DSPS 34 — Writing Strategies for Students with Disabilities

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Strategies for success in writing for students with disabilities concurrently enrolled in ENGL 67, 68, 1A, 1B, and 1C classes. These 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

Degree Applicable, CSU, UC

54 hours lecture

Introduction to the field of education for students interested in teaching at the elementary or secondary level. Principles and issues are explored including history, philosophy, politics of education, needs of learners, and educational specialization. Course includes guidance in the selection of a future area of specialization, K-12 classroom observations required.

■ EDUC 16 — Aspects and Issues in Teaching 3 Units Service Learning

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eliaibility for ENGL 68

Survey of the teaching profession, providing students opportunities to explore aspects of the career, including teaching and learning styles, state content standards and testing, recent California and national legislation, social issues, school funding and teacher rights and responsibilities.

ELECTRONICS

■ ELEC 10 — Introduction to Mechatronics

2 Units

Not Degree Applicable

18 hours lecture

54 hours lab

An introduction to the field of mechatronics, a combination of conventional electronic technology with mechanical and computer technology. Special emphasis is on robotics. Hands-on activities include the building of a robot.

■ ELEC 11 — Technical Applications in Microcomputers 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Use of the personal computer (PC) in electronics for technically related applications. Includes word processing, spreadsheets, database, computer presentation methods, e-mail, and job searches.

■ ELEC 12 — Computer Simulation and Troubleshooting 2 Units Degree Applicable

18 hours lecture

54 hours lab

Advisory: ELEC 51, ELEC 56 taken prior

Use of the personal computer for simulation and troubleshooting of both analog and digital electronic circuits. Circuit analysis. value substitution, and fault diagnostics will be done with the emphasis on "Electronics Workbench/Multisim" software.

■ ELEC 50A — Electronic Circuits (DC)

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: Eligibility for Math 51; ELEC 61 taken concurrently

Direct Current (DC) electrical circuits and their applications. Covers DC sources, analysis, test equipment, measurements, and troubleshooting of resistive devices and other basic components. Includes Ohm's Law, Kirchhoff's law, and network theorems. (Students seeking a survey course in electronics should take ELEC 10, Introduction to Mechatronics, rather than ELEC 50A or 50B.)

■ ELEC 50B — Electronic Circuits (AC)

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: ELEC 50A taken prior

Alternating Current (AC) electrical circuits and their applications. Covers AC sources, analysis (using complex numbers), test equipment, measurements, and troubleshooting of basic circuits with capacitors, inductors, and resistors. Includes impedance. resonance, filters, and decibels.

■ ELEC 51 — Electronic Devices

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 lines, characteristics curves, gain, troubleshooting, measurements, and frequency response.

■ ELEC 53 — Communications Circuits

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: ELEC 51 taken prior

Analog and digital communications circuits. Emphasizes analog and digital modulation principles, fiber optics, multiplexing, and telecommunications circuits.

■ ELEC 54A — Industrial Electronics

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: ELEC 51 taken prior

Industrial electronic components and basic control circuits. Includes time delay controls, thyristor controls, relays, opto devices, DC and AC motor control, transducers, silicon controlled rectifier (SCR), and unijunction transistor (UJT) devices.

■ ELEC 54B — Industrial Electronic Systems 3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Advisory: ELEC 54A taken prior

Expands on circuit theory and demonstrates systems application of industrial electronics including robotics, industrial production and processes, automation, and programmable and motor controllers. Emphasis is on programmable logic controllers (PLCs).

■ ELEC 55 — Microwave Communications

4 Units Degree Applicable

54 hours lecture 54 hours lab

Advisory: ELEC 53 taken prior

Microwave components and circuits and their applications with emphasis on satellite technology, including radar, GPS, and others. Stresses Gunn diode oscillators, transmission lines, waveguides, Smith Charts, components, amplification, frequency analysis, and measurement techniques.

■ ELEC 56 — Digital Electronics

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Combinational and sequential logic circuits emphasizing number systems, binary math, basic gates, Boolean algebra, Karnaugh maps, flip-flops, counters, and registers. Stresses design and troubleshooting techniques.

■ ELEC 61 — Electronic Assembly and Fabrication 3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Advisories: ELEC 50A and ELEC 50B

Assembly and fabrication techniques in basic soldering, desoldering, and surface mount technology (SMT). Construction of coaxial, twisted pair (Ethernet) cabling and connectors. Includes printed circuit board (PCB) layout and design.

■ ELEC 62 — Advanced Surface Mount Assembly 2 Units and Rework

Degree Applicable

(May be taken two times for credit)

18 hours lecture

54 hours lab

Advisory: ELEC 61

Advanced course in assembly and repair (soldering) on surface mount assemblies. Prepares for the IPC surface mount assembly and rework certifications.

■ ELEC 63 — Electronic Assemblies Recertification 1 Unit

Degree Applicable

9 hours lecture

27 hours lab

Prereauisite: ELEC 62

Prepares the technician as an Application Specialist for the IPC-7711/IPC-7721 Rework and Repair of Electronic Assemblies certification. (Note: Industry requires recertification every two years.)

■ ELEC 66 — Electrical Code-Residential

3 Units Not Degree Applicable

54 hours lecture

Advisory: ELEC 54B taken prior

Introduction to the National Electrical Code requirements for residential wiring. Includes interpretation and review of electrical wiring diagrams, material use, installation methods, and calculation of electrical load to size feeders and conductors. Prepares for part of the California State Contractors C-10 Electrician license exam.

■ ELEC 74 — Microcontroller Systems

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: ELEC 56 taken prior

Microcontroller systems and programming methods; programmable logic devices (PLDs); serial communications; conversion of signals from analog to digital formats and the converse. Industry applications, interfacing, and troubleshooting.

■ ELEC 76 — Radio Telephone Communications 3 Units Not Degree Applicable

54 hours lecture

Prepares qualified electronic technicians for the FCC and/or NARTE commercial licenses for technicians and engineers in the communications field.

■ ELEC 81 — Laboratory Studies in Electronics 1 to 2 Units Technology

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

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

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

Advisory: ELEC 56

Provides actual on-the-job experience in electronics at an approved work site which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice.

ELECTRONICS SYSTEMS TECHNOLOGY

■ EST 50 — Electrical Fundamentals for Cable Installations

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Electrical fundamentals for cable and wire installations, and other low voltage systems. Includes DC/AC, solid-state devices, digital and microprocessor devices and their application to cable installations. Prepares students for the California State Contractors C-7 low voltage systems license.

■ EST 52 — Fabrication Techniques for Cable Installation

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4 Units

Degree Applicable

54 hours lecture

54 hours lab

Fabrication techniques used in the installation of home theater, computer networks, home automation, and other low voltage system applications. Emphasis on hand and power tools, construction methods and materials as they apply to cable and wire installations. Prepares students for the California State Contractors C-7 low voltage systems license.

■ EST 54 — Cabling and Wiring Standards

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: EST 50, EST 52

Cable and wire standards of video, voice, and data wiring for home theater, computer networks, home automation, telecommunications, and other low voltage system installations. Emphasis on copper wire, coax, fiber optic, and structured cables. Prepares students for the California State Contractors C-7 low voltage systems license.

■ EST 56 — Home Theater, Home Integration and Home Security Systems 4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: EST 54

Home theater, home integration, and other home management systems. Emphasis on home theater, home management PLCs, security hardware and programming, and the installation and servicing of such systems. Prepares students for the California State Contractors C-7 low voltage systems license.

■ EST 62 — Electronic Troubleshooting-I

4 Units Degree Applicable

54 hours lecture

54 hours lab

Advisory: EST 56

Troubleshooting basic electronic circuits and systems to component level. Circuits include: power supplies, amplifiers, audio circuits, home theater audio (Dolby 5.1), and video circuits (analog TV).

■ EST 64 — Electronic Troubleshooting - II

4 Units Degree Applicable

54 hours lecture

54 hours lab

Advisory: EST 62

Troubleshooting advanced electronic video circuits and systems to component level. Includes digital TV and HDTV (plasma, LCD, DLP).

■ EST 70 — C-7 Low Voltage Systems License Preparation 2 Units Degree Applicable

36 hours lecture

Advisory: EST 56 or ECWT 56 taken prior

Prepares for the California State Contractors C-7 Low Voltage Systems license examination. Students who repeat this course will improve skills through further instruction and practice.

EMERGENCY MEDICAL SERVICE

■ EMS 1 — Paramedic Fundamentals and Selection 4 Units Degree Applicable

72 hours lecture

Prerequisite: Completed Paramedic Program application, current California EMT I (Basic) certificate, and 1200 hours employment as an EMT I, Eligibility for ENGL 68, Eligibility for READ 90, and Eligibility for MATH 51

Assessment and review of required Emergency Medical Technician (EMT) competencies as part of the selection process for the Emergency Medical Technician – Paramedic (EMT-P) program. Includes current practices, medical terminology, mathematical skills for drug calculations, and applied physiology and anatomy of human body systems.

■ EMS 2 — Preparation for Paramedic Program 1 Unit

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lab

Prerequisite: Acceptance into the paramedic program, EMS 1
Emergency Medical Technician (EMT)-Basic Skills development
and practice for patient assessment and treatment decisionmaking in preparation for the paramedic program. Focuses on
life support, trauma response, and immobilization techniques for
healthcare providers. Includes the American Heart Association
Healthcare Provider (AHA HCP) Basic Life Support (BLS) skills,
Basic Trauma Life Support (BTLS) and the Los Angeles County
Emergency Medical Services (EMS) standards and resuscitation
policies. Ride-alongs with 911 call response teams are highly
recommended.

■ EMS 10 — Anatomy and Physiology for Paramedics 2 Units Degree Applicable

36 hours lecture

Prerequisite: Admission to Paramedic Program, EMS 1 and EMS 2 Corequisite: EMS 20, EMS 30, EMS 40, EMS 50, and EMS 60 Gross anatomy and physiology of the human body, with applications to paramedic practices.

■ EMS 20 — Emergency Cardiac Care for Paramedics 1 Unit Degree Applicable

20 hours lecture

6 hours lab

Prerequisite: Admission to the Paramedic Program
Corequisite: EMS 10, EMS 30, EMS 40, EMS 50, and EMS 60
Certifies paramedics in Basic Life Support (BLS-CPR), Pediatric
Advanced Life Support (PALS), and Advanced Cardiac Life Support (ACLS).

■ EMS 30 — Pharmacology for Paramedics

2.5 Units
Degree Applicable

36 hours lecture

18 hours lab

Prerequisite: Admission to the Paramedic Program
Corequisite: EMS 10, EMS 20, EMS 40, EMS 50, and EMS 60
Paramedic drugs with emphasis on dosages supplied and ordered, routes of administration, expected therapeutic outcomes and possible adverse reactions.

■ EMS 40 — Cardiology for Paramedics

5 Units

Degree Applicable

90 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, abnormal, and diseased heart, assessment and assessment tools, interpretation of dysrhythmias, and paramedic interventions.

■ EMS 50 — Paramedic Skills Competency

5 Units Degree Applicable

54 hours lecture

108 hours lab

Prerequisite: Admission to the Paramedic Program

Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, EMS 60

Course builds proficiency in the paramedic skills required for field operation as a paramedic and for licensing in competency-based exams.

■ EMS 60 — EMS Theory for Paramedics

8.5 Units
Degree Applicable

153 hours lecture

Prerequisite: Admission to the Paramedic Program

Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 50

Paramedic theories, principles, and practices including assessment skills, care of the sick and injured at a paramedic level, with applications to anatomy and physiology, pathologic processes, and mechanism of injury.

■ EMS 70 — Paramedic Clinical Internship

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 with an emphasis on patient assessment and utilization of paramedic skills in a hospital setting.

■ EMS 80 — Paramedic Field Externship

9.5 Units Degree Applicable

(May be taken for Pass/No Pass only)

479 hours lab

Prerequisite: EMS 1 and successful completion of Los Angeles

County accreditation exam

Corequisite: EMS 70 (may have been taken previously)

Application of concepts of paramedic theory and practices, with emphasis on patient assessment and utilization of paramedic skills in a field setting on an operational paramedic unit.

EMERGENCY MEDICAL TECHNICIAN

■ EMT 90 — Emergency Medical Technican I 10.5 Units Degree Applicable

135 hours lecture

135 hours lab

Prerequisite: High school graduation or equivalent and minimum of 18 years of age

Approved by the L.A. County and State Departments of Health. Emphasizes the development of skill in recognition of symptoms of illnesses and injuries, and proper procedures of pre-hospital emergency care. Awards an EMT - I Course Completion Certificate, necessary for many jobs in emergency care and is a prerequisite for entry into a Paramedic program and most fire department jobs.

■ EMT 91 — Emergency Medical Technician I Refresher 2 Units Degree Applicable

40 hours lecture

Prerequisite: Completion of a State or County Department of Health (or out-of-state) approved course and possession of a currently valid EMT-I certificate or one which has expired for no more than 20 months

Approved by the L.A. County and State Departments of Health. Required of all Emergency Medical Technician - I personnel every two years in order to maintain eligibility for employment in an emergency response agency and to keep certification valid. Course covers all required material and current changes/updates in pre-hospital emergency care at the EMT-I level

ENGINEERING

■ ENGR 1 — Introduction to Engineering 1 Unit

Degree Applicable, CSU, UC

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

Introduction to the engineering profession; academic requirements; articulation agreements with four-year institutions; engineering ethics; professional engineering licensure; engineering study as a preparation for other careers; academic success strategies.

■ ENGR 8 — Properties of Materials

Degree Applicable, CSU, UC

4 Units

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

Prerequisite: CHEM 40 or 50 and PHYS 4A or 2AG

Mechanical, electrical, magnetic, optical and thermal properties of engineering materials and their relation to the materials' internal structure. Atomic structure and bonding; crystalline structures; phase and phase diagrams; metals; polymers; ceramics; composites; mechanical deformation and fracture; structural control and influence of properties; materials naming and designating systems; corrosion process; lasers; semiconductors; electronic packaging materials.

■ ENGR 18 — Introduction to Engineering Graphics 3 Units Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Fundamental engineering graphics and problem solving techniques. Skills in freehand and instrument drawing are developed and applied to the solution of problems. Orthographic, isometric and oblique drawings.

■ ENGR 24 — Engineering Graphics

4 Units Degree Applicable, CSU, UC

36 hours lecture

108 hours lab

Prerequisite: ENGR 18 and eligibility for MATH 51

Advisory: CISB 15

Graphical expression through Computer Assisted Drafting (CAD). Includes freehand sketching and instrument drawing, orthographic, isometric and oblique drawing with dimensioning and tolerancing. Fasteners, cams, gears, and pipe drawings. Descriptive geometry: points, lines, and planes. Intersections and developments of solids, sheet metal, electrical and civil engineering, and surveying drawings.

■ ENGR 40 — Statics

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: PHYS 4A

Static equilibrium of rigid bodies, forces, couples in two-and three-dimensional space. Application of equilibrium principles to trusses, frames and machines. Calculation of center of mass and centroid. Friction, moment of inertia, distributed and concentrated loads. Forces in cables and beams. Fluid statics. Introduction to virtual work. Vector approach.

■ ENGR 41 — Dynamics

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: ENGR 40

Absolute and relative motion of particles and rigid bodies in translational and rotational motion. Instantaneous center of rotation, Application of Newton's Second Law, work-energy and impulse-momentum methods. Introduction to mechanical vibrations. Vector approach.

■ ENGR 42 — Mechanics of Materials

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prereauisite: ENGR 40

Mechanics of deformable bodies subjected to axial, torsional. shearing, and bending loads. Includes combined stresses, statically indeterminate structures, deflection and stress analysis of beams, stability of columns, strain energy methods, and design of pressure vessels and structures.

■ ENGR 44 — Electrical Engineering

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: PHYS 4B

Introduction to electrical circuit analysis; systems of units; applications of Kirchoff's Laws and Thevenin's Theorems to D-C and A-C circuits. Mesh and nodal analysis: RL and RC transients: phasors and steady-state sinusoidal analysis; response as a function of frequency; current, voltage, and power relationships; polyphase circuits; periodic forcing functions; Norton's Theorem; three-phase circuits.

■ ENGR 99 — Special Projects in Engineering 1 to 2 Units

Not Degree Applicable

(May be taken four times for credit)

54 to 108 hours lab

Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (May have been taken previously)

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer special projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will meet with the instructor and make individual contracts of a more advanced nature to ensure that proficiencies are enhanced.

ENGINEERING DESIGN TECHNOLOGY

■ EDT 11 — Technical Engineering Drawing I 3 Units

Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: Eliaibility for MATH 51

Basic skills for a solid foundation in the Engineering Drawing or Computer-Aided Design fields. Involves application, basic sketch, theories and design processes used in engineering and industrial drawings. Completion of a portfolio is a requirement of this course.

■ EDT 12 — Technical Engineering Drawing II 3 Units

Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: EDT 11

Advanced applications, automated techniques, dimensioning, tolerancing, fasteners, piping, circuit board design, theory used in engineering and industrial drawings. Students will complete a set of working drawings in either manual or CAD for inclusion in a portfolio.

■ EDT 14 — Mechanical Design - Geometric 3 Units Dimensioning and Tolerancing

Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: EDT 11. EDT 12

Use of symbols for tolerance of form and tolerance of position and drawing requirements with respect to actual function and relationship of part features. Studies of related terminology, power transmission, bearing and mechanical devices, related exercises including design layout, details and assembly drawings. Completion of a portfolio is a requirement of this course.

■ EDT 16 — Basic CAD and Computer Applications 4 Units Degree Applicable. CSU

54 hours lecture 54 hours lab

Advisory: Eligibility for MATH 51

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

■ EDT 18 — Engineering CAD Applications

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: EDT 11, EDT 16

Intermediate CAD for engineering, explores the 2-D and 3-D environments, 3-D parametric solid modeling, file manipulation related to Windows platforms.

■ EDT 20 — Technical Descriptive Geometry 3 Units

Degree Applicable, CSU

36 hours lecture 72 hours lab

Advisory: EDT 11

Advanced course for solving visual and spatial problems graphically. Applies the principles of orthographic projection and 3-D visualization to solve problems that involve lines, planes, intersections, auxiliary views, and developments. A time saving skill necessary for prospective engineers and technology students.

■ EDT 24 — Engineering CAD 3-D Solids and Surfaces 3 Units Degree Applicable, CSU

36 hours lecture 72 hours lab

Advisory: EDT 18

Advanced engineering CAD for developing detailed working drawings in 3-D environments, incorporating 3-D parametric solid modeling, bill of materials, and surface development.

■ EDT 26 — Civil Engineering Technology and CAD 3 Units Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: EDT 11, EDT 16

Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CAD) applications. Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CAD drawings produced for a final portfolio.

■ EDT 28 — Engineerng CAD 3D Illustration/Animation 3 Units Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: EDT 18

Advanced CAD course in three-dimensional illustration using complex entities, shading, and animation techniques. A completed video portfolio will be developed. (SolidWorks, 3DS Max, Adobe PS).

■ EDT 89 — Engineering Design Technology 1 to 2 Units Work Experience

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 150 hours lab

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

Provides on-the-job experience in Engineering Design Technology at an approved work site using skills and knowledge from classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving advanced standing (minimum 12 units in major or equivalent experience.) Students who repeat this course will improve skills through further instruction and practice.

ENGLISH: COMPOSITION

■ ENGL 1A — Freshman Composition

4 Units Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: ENGL 68 or satisfactory score on the English Placement Test

Develops effective expository writing skills and investigates the principles and methods of composition as applied to the writing of essays and the research paper. Emphasizes critical reading of academic material.

■ ENGL 1AH — Freshman Composition - Honors 4 Units Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: Acceptance into the Honors Program

Develops effective expository writing skills and investigates the principles and methods of composition as applied to the writing of essays and the research paper. Emphasizes critical reading of academic material. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1A and ENGL 1AH.

■ ENGL 1B — English - Introduction to Literary Types 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH

Critical, oral, and written evaluation, analysis, and interpretation of short and long fiction, poetry, and drama. Develops a foundation for personal, cultural, and intellectual growth.

■ ENGL 1BH — English - Introduction to Literary Types 3 Units - Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program

Critical, oral, and written evaluation, analysis and interpretation of short and long fiction, poetry, and drama. Develops a foundation for personal, cultural, and intellectual growth. An honors course designed to provide an enriched experience. May not receive credit for both ENGL 1B and ENGL 1BH.

■ ENGL 1C — Critical Thinking and Writing 4 Units Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH

Develops critical thinking, reading, and writing skills. Focuses on logical analysis and argumentative writing.

■ ENGL 1CH — Critical Thinking and Writing - Honors 4 Units Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program

Develops critical thinking, reading, and writing skills. Focuses on logical analysis and argumentative writing. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1C and ENGL 1CH.

■ ENGL 8A — Creative Writing - Fiction 3 Units Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH

Elements, processes, and techniques of fiction writing. Includes genre, setting, point of view, character development, plot development, description, and dialogue with an emphasis on student development as a writer of fiction through practice and discussion

■ ENGL 8B — Creative Writing - Poetry 3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH

Emphasizes the student's development as a poet.

■ ENGL 8C — Creative Writing - Novel 3 Units

Degree Applicable, 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, setting, point of view, character development, plot development, description, and dialogue with an emphasis of student development as a writer of novels through practice and discussion.

■ ENGL 8D — Creative Writing - Poetry Collection 3 Units Degree Applicable

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

Prerequisite: ENGL 8B

Elements, processes, and techniques for creating and writing poetry collections. Includes theme, imagery, line breaks, diction, and prosody, with an emphasis on student development as a creator of poetry collections through practice, writing, and discussion.

■ ENGL 8E — Creative Writing - Memoir 3 Units

Degree Applicable, CSU

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

54 hours lecture

Prerequisite: English 1A

Analysis and writing of memoirs including stylistic and syntactic forms and composition strategies used when writing memoir.

■ ENGL 8F — Creative Writing - Nonfiction 3 Units

Degree Applicable, CSU, UC

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

Prerequisite: ENGL 1A

Analysis and writing of creative nonfiction including stylistic and syntactic forms and composition strategies used when writing creative nonfiction.

■ ENGL 8G — Creative Writing-Memoir Collection 3 Units Degree Applicable

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

Prereguisite: ENGL 8E

Development of memoir writing with emphasis on developing a memoir collection. Includes setting, character development, dialogue, theme, voice, laws and ethics, and publication with an emphasis of student development as a writer of a complete book length memoir collection through reading, practice and discussion.

■ ENGL 8I — Creative Writing - Nonfiction Collections 3 Units Degree Applicable

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

Prerequisite: ENGL 8F

Elements, processes, and techniques for creating and writing creative nonfiction collections. Includes forms, theme, voice, style, with an emphasis on student development as a creator of creative nonfiction collections through reading, 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.

■ ENGL 9B — Expanding the Personal Journal

3 Units Degree Applicable

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

Prerequisite: ENGL 9

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.

■ ENGL 64 — Writing Effective Sentences

1 Unit Not Degree Applicable

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

Prerequisite: Eligibility for ENGL 67

Improve sentence writing skills through the analysis and application of sentence elements. Includes the identification and correction of common sentence problems, such as comma splice, fragment, and run-on.

■ ENGL 65 — Grammar Review

1 Unit

Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

Review fundamentals of English for the student who needs a practical course focusing on usage and grammar: case, agreement, verbs, verbals, fragments, shifts in construction, dangling modifiers, diction, parallelism, comma-splice, and punctuation.

■ ENGL 66 — Paragraph Writing

1 Unit

Not Degree Applicable

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

Analysis and writing of paragraphs. Through the process of writing, the student learns to state and support an idea about a focused topic.

■ ENGL 67 — Writing Fundamentals

4 Units

Not Degree Applicable

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

Prerequisite: Satisfactory score on the English Placement Test or completion of AMLA 42W or completion of LERN 81

Using an integrated approach, develops effective writing based on reading; emphasizing the sentence, the outline, the summary, the paragraph and an introduction to the essay. Gives attention to grammar, punctuation and vocabulary. Develops critical thinking through reading comprehension in conjunction with related writing.

■ ENGL 68 — Preparation for College Writing

Degree Applicable

4 Units

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

Prerequisite: ENGL 67 or AMLA 43W or satisfactory score on the English Placement Test

Development of the academic essay based on critical reading of texts. Reviews paragraph structure and introduces principles of documentation. Continues to develop critical thinking through reading of and writing about increasingly complex texts.

■ ENGL 75 — Vocabulary Building

3 Units

Not Degree Applicable

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

54 hours lecture

Expands students' reading, writing and speaking vocabularies through study of the principles of word formation, emphasizing prefixes, roots, suffixes and the effective use of content clues as well as dictionaries and other reference works.

■ ENGL 81 — Language Acquisition

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: ENGL 1A

Language structure, linguistics, language development. Explores first and second-language acquisition as it pertains to K-12 learners. Meets the Commission on Teaching Credentialing standards for Language Acquisition requirement for elementary school teaching credential.

■ ENGL 99 — Special Projects in English

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2 Units | A chronological st

(May be taken four times for credit)

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

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

ENGLISH: LITERATURE

■ LIT 1 — Early American Literature

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

American literature of the Seventeenth, Eighteenth, and Nineteenth Centuries. Emphasizes writers who created an American literary identity and shaped America's cultural mythology.

■ LIT 2 — Modern American Literature

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Emphasizes characteristic late 19th, 20th, and 21st century concerns as they relate to American literary form and content.

■ LIT 3 — Multicultural American Literature

Degree Applicable, CSU, UC

54 hours lecture

Prerequisites: English 68 or passing score on current placement

Analyzes the representative contributions of three or four diverse groups to American literature and culture. Covering a wide spectrum of historical periods and literary genres, the course will focus on issues of ethnic identity, assimilation, acculturation, cultural pluralism, and family and gender roles in order to heighten awareness of diversity in America. Representative literature groups may include African American, Hispanic American, Native American, Asian American, Gay and Lesbian American, disability groups and religious groups.

■ LIT 6A — Survey of English Literature

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

A chronological study of major works from Beowulf and the Anglo-Saxon period to the mid-18th century.

■ LIT 6B — Survey of English Literature

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Major works from the Romantic Era through the Victorian and Modern periods to contemporary texts.

■ LIT 10 — Survey of Shakespeare

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prereauisite: ENGL 1A

Surveys Shakespeare's histories, tragedies, comedies, and selected sonnets with their historical and literary context, emphasizing their relevance to contemporary culture and values.

■ LIT 11A — World Literature to 1650

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Surveys works of classical Greece through the Renaissance. Emphasizes the interrelationship of literature, art, society, politics, philosophies and general culture.

■ LIT 11B — World Literature from 1650

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: ENGL 1A

Works and ideas from 1650 through the 21st century emphasizing those works which not only reflect qualities of universal greatness but also the thought and spirit of the ages in which they were written. Emphasizes how art, society, politics, philosophies and general culture are interrelated and reflected in the literature of these different eras.

■ LIT 14 — Introduction to Modern Poetry

3 Units

Degree Applicable, CSU, UC

54 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

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: ENGL 1A

Explores the broad range of human experience inherent in the study of film as art. Using a number of films drawn from various genres, examines film from historical, social, technological and aesthetic perspectives.

■ LIT 20 — African American Literature

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Surveys Eighteenth through Twenty-first Century writings of African Americans. Emphasizes the oral tradition, development of protest literature and major modern and contemporary writers such as Wright, Ellison, Baldwin, Walker, and Morrison.

■ LIT 25 — Contemporary Mexican American Literature 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Contemporary Mexican-American literature, drama, and film. Includes discussion of the roles played by gender, religion, language, education, family, ethnic identity, and class. Also addresses application of literary tools such as symbolism, language, and theme.

■ LIT 36 — Introduction to Mythology

3 Units

Degree Applicable, CSU, UC

54 hours lecture Prerequisite: ENGL 1A

Major myths, including creation, fertility, and hero myths. Theories and approaches to these archetypal stories and the ways that they reflect and shape culture. Emphasis is on Classical myths, but myths from around the world may be included.

■ LIT 40 — Children's Literature

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: ENGL 1A

Children's fiction and non-fiction books from around the world. 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

Prerequisite: ENGL 1A

Considers the Bible as a collection of literary texts and applies the principles of literary analysis to the Old Testament in their historical and cultural contexts.

■ LIT 47 — The Bible as Literature: New Testament 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Considers the Bible as a collection of literary texts and applies the principles of literary analysis to selected books of the New Testament in their historical and cultural contexts.

FAMILY AND CONSUMER SCIENCES

■ FCS 41 — Life Management

3 Units
Degree Applicable, CSU

54 hours lecture

Life Management provides individuals with skills for understanding and using resources for effective functioning now and in the future. Explores theories of management including Maslow's Hierarchy of Needs and systems thinking, and how they apply to the day-to-day use of one's resources including time, energy, abilities, and money. Major topics include steps in value clarification, goal setting, decision making, problem solving, time management, money management, education and career planning, communication skills, handling change and stress, and conflict management. In addition, the course explores the effect of cultural forces and future trends on goals, values, standards, and time management.

■ FCS 51 — Consumer Skills, Issues, and Strategies 3 Units Degree Applicable, CSU

54 hours lecture

Consumer skills with an emphasis on practical applications in the marketplace. Topics include history of the consumer movement, consumer rights and responsibilities, financial wellness, consumer debt, behavior, fraud, and redress. Explores the relationship between consumer skills, careers, and job skills.

■ FCS 80 — Personal Financial Planning 3 Units

Degree Applicable, CSU

54 hours lecture

Personal and family financial planning for those who wish to understand their own finances across the lifespan and assist others in money management. Topics include financial goal setting, budgeting, consumer credit, debt management, banking functions, income taxes, home ownership, insurance, investing, and retirement planning. Students may not earn credit for both BUSA 71 and FCS 80.

■ FCS 91 — Work Experience in Family and Consumer Sciences

1 to 3 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 225 hours lab

Prerequisite: Compliance with work experience regulations as designated in the College Catalog.

Provides Family and Consumer Science majors with actual onthe-job experience in an approved work site related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice.

FASHION MERCHANDISING AND DESIGN

■ FASH 8 — Introduction to Fashion

3 Units
Degree Applicable, CSU

54 hours lecture

Fashion industry from concept to consumer, industry background, and technology. Includes design, manufacturing, distribution, sales, and promotion with emphasis on career opportunities and qualifications.

■ FASH 9 — History of Costume and Fashion 3 Units Degree Applicable, CSU

54 hours lecture

Survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on style development as it relates to social, economic and political forces, and the relationship of historic styles to current fashion.

■ FASH 10 — Clothing Construction I

3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Development of a basic understanding of industry standard apparel construction techniques using a variety of machines and equipment. Included are marker preparation, commercial patterns, basic block fusing, and garment construction of slim skirt/pants. dress/shirt. and knit "T" shirt.

■ FASH 12 — Clothing Construction II

3 Units
Degree Applicable, CSU

Degree

36 hours lecture

54 hours lab

Prerequisite: FASH 10

Industry-quick alternatives to traditional construction and tailoring techniques using overlock and single needle machines. Hands-on experience using woven fabrics for tailored clothing and novelty knits.

■ FASH 15 — Fashion and Identity

3 Units

Degree Applicable, CSU

54 hours lecture

Sociological, psychological, cultural, and fashion industry influences on clothing design and selection. The elements and principles of design and their impact on apparel selection will be explored.

■ FASH 17 — Textiles

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Manufacturing of textiles and fabrics and the factors that determine the suitability for end use. Topics include natural and synthetic fibers, yarns, fabric construction, dyes, finishes, legislation, and care. Emphasis is on selection criteria for textile product design and recent developments in the textile field.

■ FASH 20 — Illustration for Fashion and Costume Design 3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Drawing techniques for fashion and theatrical costume design. Application of the basic techniques used in drawing a well-proportioned male and female figure and in rendering garment flats using texture, fabric, and design detail. Students will explore a variety of mediums.

■ FASH 21 — Patternmaking I

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Prerequisite: FASH 10

Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, slopers will be created, constructed and fitted.

■ FASH 22 — Fashion Design By Draping

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: FASH 10

Three dimensional dress design through draping fabrics directly to a dress form to create original designs or to interpret fashion illustrations.

■ FASH 23 — Patternmaking II

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: FASH 21

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 24 — Fashion Patternmaking by Computer 3 Units

Degree Applicable

36 hours lecture

54 hours lab

Advisory: FASH 21

Industrial fashion patternmaking and grading using Gerber Computer Aided Design (CAD) technology. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing and grading of patterns.

■ FASH 25 — Fashion Computer-Assisted Drawing 3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Advisory: FASH 20

Technical fashion drawing techniques using Adobe Illustrator and Photoshop. Includes 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.

■ FASH 26 — Fashion Computer Assisted Design 2 Units Degree Applicable

18 hours lecture

54 hours lab

Use an advanced, industry-specific CAD system to produce highlevel graphic presentations. Create color palettes, textiles, and surface designs; explore texture mapping and how it is used to create a natural drape on the fashion figure; and use the computer as a layout design tool for swatches and vector flat drawings.

■ FASH 30 — Fashion Design and Product Development I 3 Units Degree Applicable

54 hours lecture

Advisory: FASH 15 and FASH 8

Overview of the global environment for product development for fashion. Applies the concepts and methods by which retailers create special store-branded merchandise for targeted customer segments. Students will develop financial and design goals, create product concept and line-boards, and evaluate the aesthetic and commercial results.

■ FASH 35 — Special Topics in Fashion Design 2 Units

Degree Applicable

(May be taken four times for credit)

18 hours lecture

54 hours lab

Prerequisite: FASH 10

Provides exploratory design experience to enhance basic fashion design curriculum. Students will explore advanced garment design and/or construction techniques. Students who repeat this course will improve skills through further instruction and practice.

■ FASH 62 — Retail Store Management and Merchandising 3 Units Degree Applicable, CSU

54 hours lecture

Principles and practices used in the management and merchandising of retail stores. Includes critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service. Students may not receive credit for both FASH 62 and BUSS 50.

■ FASH 63 — Advertising and Promotion

3 Units

Degree Applicable, CSU

54 hours lecture

Characteristics and role of advertising and promotion in business. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy. Students may not receive credit for both FASH 63 and BUSS 33.

■ FASH 66 — Visual Merchandising Display

lay 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Analysis of visual merchandising applied to interior and exterior displays and floor merchandising within the fashion industry. Includes psychology of store layout, current methods of visual merchandising, and use of mannequins, pinning, and flying.

■ FASH 81 — Work Experience in Fashion

1 to 3 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 225 hours lab

Provides fashion students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice.

■ FASH 90 — Field Studies

1 Unit

Degree Applicable

(May be taken four times for credit)

18 hours lecture

Pre-trip lectures on the development of the ready-to-wear industry including background information on specific designer studios, factories, and retail stores to be visited, plus travel information for the trip. Students who repeat this course will improve skills through further instruction and practice.

■ FASH 91 — Field Studies - New York

2 Units

Degree Applicable

(May be taken four times for credit)

36 hours lecture

Corequisite: FASH 90 (may have been taken previously)

Fashion industry travel study in New York City with daily scheduled lectures and field studies of the diverse fashion industries to include major designers, fashion trend services, retailers, manufacturers, costume/textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice.

■ FASH 92 — Field Studies - Fashion Capitals

3 Units

Degree Applicable

(May be taken four times for credit)

54 hours lecture

Corequisite: FASH 90 (may have been taken previously)

Fashion industry travel study to fashion capitals with daily scheduled lectures and field studies of the diverse international industry to include designers, fashion trend services, retailers, manufacturers, textile mills, costume textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice.

FIRE TECHNOLOGY

■ FIRE 1 — Fire Protection Organization 3 Units

Degree Applicable, CSU

54 hours lecture

Careers in fire protection and related fields, history of fire protection, fire loss analysis, and public, quasi-public, and private fire protection services. Also includes specific fire protection functions and fire behavior, suppression, and extinguishment.

■ FIRE 2 — 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.

■ FIRE 3 — 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.

■ FIRE 4 — Building Construction for Fire Protection 3 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.

■ FIRE 5 — Fire Behavior and Combustion 3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1

Theory of how and why fires start, spread and are controlled; in depth study of fire chemistry and physics, fire characteristics of materials, extinguishing of materials, extinguishing agents and fire control techniques.

■ FIRE 6 — Hazardous Materials/ICS

3 Units Degree Applicable

54 hours lecture

Hazardous chemicals, their physical properties, use in industry, characteristics when involved in spills, fire and accidents. Information regarding emergency procedures, legal requirements, compliance to regulations, health effects and treatment, fire department protocols and responsibilities that meet OSHA requirements.

■ FIRE 7 — Fire Fighting Tactics and Strategy 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1 or equivalent taken prior

Principles of fire control through utilization of manpower, equipment and extinguishing agents, fire command and control procedures, utilization on types of building construction in fire control, review of fire chemistry, pre-fire planning, organized approach to decision making on the fire scene, basic fire fighting tactics and strategy.

■ FIRE 8 — Fire Company Organization and Management 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1

Fire department company organization, management, leadership, company officer responsibilities, personnel issues, administration, communication, firefighter safety and wellness, firefighting capability, records, and reports.

■ FIRE 9 — Fire Hydraulics

3 Units
Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1 or equivalent taken prior and eligibility for MATH 51

Review of basic mathematics, hydraulic laws and formulas as applied to fire service, application of formulas and mental calculation to hydraulic problems, water supply problems, underwriter requirements for pumps.

■ FIRE 10 — Arson and Fire Investigation

3 Units Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1 or equivalent taken prior

Introduction to cause, origin, arson, incendiarism, related laws and types of incendiary fires. Methods of determining fire cause, recognizing and preserving evidence, interviewing and detaining witnesses, procedures for handling juveniles, court procedure and testimony.

■ FIRE 11 — Fire Apparatus and Equipment 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1 or equivalent taken prior

Mechanized equipment operated by the fire service personnel and regulations pertaining to their use. Includes driving laws, driving techniques, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, and apparatus maintenance.

■ FIRE 12 — Wildland Fire Control

4.5 Units

Degree Applicable, CSU

79 hours lecture

Advisory: Eligibility for ENGL 68

Addresses wildland fire behavior, safety considerations, strategy, tactics, and operational differences within the wildland urban interface.

■ FIRE 86 — Basic Fire Academy

14.5 Units
Degree Applicable

135 hours lecture

383 hours lab

Prerequisite: FIRE 1 through FIRE 6 or equivalent, KIN 50 or equivalent, EMT certified, and either KINF 50 or KINF 51 or KINF 52 (or equivalent)

Corequisite: KINF 53

Instruction in the proper use of standard fire department apparatus and equipment, salvage covers and fire extinguishment techniques, etc., in accordance with the State Board of Fire Services. Prepares students to meet manipulative skills standards established by the local fire agencies, associations and unions.

■ FIRE 91 — Fire Academy Ladders

1 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

8 hours lecture

32 hours lab

Intensive training in ladder manipulation to prepare students for Fire Academy and physical fitness tests given by the fire departments.

■ FIRE 96 — Work Experience Fire Science

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

Work experience in fire service at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving a minimum of 12 units in fire service. Students who repeat this course will improve skills through further instruction and practice.

FRENCH

■ FRCH 1 — Elementary French

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Intended for students without previous exposure to French. Begins to develop the ability to converse, read and write in French. Emphasis is on oral proficiency. Includes the study of principles of language learning, pronunciation, basic vocabulary and grammatical structures. Extensive exposure to the cultures of French-speaking countries.

■ FRCH 2 — Continuing Elementary French

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: FRCH 1 or equivalent

Further development of conversational, reading and writing skills in French, with emphasis on communicative skills, expansion of vocabulary and understanding of structure. Extensive exploration and analysis of the cultures of French-speaking countries.

■ FRCH 3 — Intermediate French

4 Units

4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: FRCH 2 or equivalent

Expansion of vocabulary and structural components. Further development of communicative proficiency with increasing emphasis on reading and writing. Extensive exposure to culture from France and other French-speaking countries.

■ FRCH 4 — Continuing Intermediate French

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: FRCH 3 or equivalent

Continued development of competencies with the goal of attaining intermediate high-level proficiency in French. Increasing emphasis on reading and writing. Extensive exposure to cultural elements such as art, music, film, and history from France and other French-speaking countries.

■ FRCH 5 — Advanced French

4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: FRCH 4 or equivalent

Provides further insight into the cultures of France and other French-speaking countries to reach an advanced level of proficiency in the language. Includes analysis of short literary works from diverse cultures, and group discussions about contemporary topics found in films and newspaper articles.

■ FRCH 6 — Continuing Advanced French 4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: FRCH 5 or equivalent

Extensive reading and analysis of short literary works from diverse French and French-speaking cultures. Discussion of films, newspaper articles and contemporary topics. Develops fluency in French through group discussions, oral presentations, and writing.

■ FRCH 53 — Intermediate Conversational French 3 Units

Degree Applicable, CSU, UC

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

Prerequisite: FRCH 2 or equivalent

Develops intermediate level fluency through expansion of vocabulary and practical use of language.

■ FRCH 54 — Continuing Intermediate Conversational French

Degree Applicable, CSU, UC

3 Units

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

54 hours lecture

Prerequisite: FRCH 3 or FRCH 53 or equivalent

Develops intermediate-high fluency through further expansion of vocabulary and practical use of language.

■ FRCH 60 — French Culture Through Cinema 3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

French culture and history as presented in classic and recent French films. Analysis of characters and political, social and artistic movements in France and other Francophone countries as reflected in the works of French-speaking film directors and writers. Lectures and class discussions conducted in English. All films with English subtitles.

GEOGRAPHY

■ GEOG 1 — Elements of Physical Geography 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

Study of the natural processes creating the earth's physical environments with emphasis on the inter-relationships of natural processes and systems; general atmospheric circulation, earth-sun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape.

■ GEOG 1H — Elements of Physical Geography - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Study of the natural processes creating the earth's physical environments with emphasis on the inter-relationships of natural processes and systems; general atmospheric circulation, earthsun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 1 and GEOG 1H.

■ GEOG 1L — Physical Geography Laboratory

Degree Applicable, CSU, UC

1 Unit

54 hours lab

Corequisite: GEOG 1 or GEOG 1H (may have been taken previously) Geograhcial observations, experiments, and demonstrations in a laboratory setting to explore natural earth processes and systems.

■ GEOG 1LH — Physical Geography Laboratory - Honors 1 Unit Degree Applicable, CSU, UC

54 hours lab

Prerequisite: Acceptance into the Honors Program

Corequisite: GEOG 1 or GEOG 1H (may have been taken previously)
Geographical bservations, experiments, and demonstrations
in a laboratory setting to explore natural earth processes and
systems. An honors course designed to provide an enriched
experience. Students may not receive credit for both GEOG 1L and
GEOG 1LH.

■ GEOG 2 — Human Geography

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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 literacy in the geography of place names and in world regional understanding.

■ GEOG 2H — Human Geography - Honors 3 Units Degree Applicable, CSU, UC

Degree Applicable, CSC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

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 literacy in the geography of place names and in world regional understanding. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 2 and GEOG 2H.

■ GEOG 5 — World Regional Geography 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Developmental study of the world's regions, addressing the major countries in terms of population, resources, economic development, physical environment, and geographic problems.

■ GEOG 8 — The Urban World

3 Units

3 Units

 ${\sf Degree\ Applicable,\ CSU,UC}$

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

54 hours lecture

The geographical analysis of past and current patterns of world urbanization. Emphasis will be placed on city origins, growth, development, and current problems.

■ GEOG 10 — Introduction to Geographic Information Systems

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Advisory: Eligibility for ENGL 68

Hands-on training in the principles, theory and operations of geographic information systems (GIS), including geospatial data models, analytical functions, data quality, map design and visual communication, and social and environmental applications of GIS.

■ GEOG 11 — Intermediate Geographic Information 3 Units Systems (GIS)

Degree Applicable

54 hours lecture

Prerequisite: GEOG 10

Geographic Information Systems (GIS) concepts such as spatial analysis, editing, and raster data sets. Includes hands on experience using hardware and software and emphasizes vector-based and raster-based data models using ArcGIS software the software extensions.

■ GEOG 30 — Geography of California 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Thematic approach to issues, processes and topics relevant to the study of California. Includes an examination of the physical processes that shape the landscapes of California, the interaction of humans with these physical processes (particularly the importance of water), and the cultural and social landscapes that have evolved as a result of this human-environment interface. Field trip required.

■ GEOG 30H — Geography of California - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Thematic approach to issues, processes, and topics relevant to the study of California geography. Includes an examination of the physical processes that shape the landscapes of California, the interaction of humans with these physical processes (particularly the importance of water), and the cultural and social landscapes that have evolved as a result of this human-environment interface. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 30 and GEOG 30H. Field trip required.

■ GEOG 91 — Service Learning for Geography 1 Unit Degree Applicable, CSU

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

Increases awareness and appreciation for civic responsibility to the environment through service learning. Students will assess the need for restoring significant habitats damaged by pollution, fire, erosion, or invasive species and learn the importance of being good stewards of the environment. Field trips required.

■ GEOG 91L — Geography Service Learning Laboratory .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: GEOG 91 (May have been previously taken)

Examines and addresses environmental needs of the community through service learning projects. Students will perform work needed for restoring significant habitats damaged by pollution, fire, erosion or invasive species. Examples of some of the work include planting trees, building trails, or collecting litter. Field trips required.

■ GEOG 99 — Special Projects in Geography 2 Units Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

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

GEOLOGY

■ GEOL 1 — Physical Geology

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: Eligibility for MATH 51

An introduction to geological thinking and Earth processes. Essentials of minerals, rocks, earthquakes, volcanoes, and landscapes are presented within a framework of plate tectonics operating in concert with atmosphere and ocean processes. A required course for students entering the geosciences major. May be taken by the non-major as a transferable lab science. Required field trips may involve overnight camping.

■ GEOL 2 — Historical Geology

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: GEOL 1 or equivalent

Geologic principles are applied in tracing the tectonic, biologic, and climatic development of Earth, mainly North America, through geologic time. The study of Earth history using geologic maps, cross-sections, minerals, rocks, and fossils is integrated with basic field methods. Required field trips may involve overnight camping.

■ GEOL 7 — Geology of California

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Introductory geology course highlighting the natural provinces of California, namely their mineral, rock, and petroleum resources, volcanoes and earthquakes, landscapes, and geologic history as influenced by plate tectonic and surface processes. Field trips are required and may involve overnight camping.

■ GEOL 8 — Earth Science

3 Units

Degree Applicable, CSU, UC

54 hours lecture

A survey course that introduces fundamentals of geology, oceanography, meteorology, and astronomy. The companion Earth Science laboratory (GEOL 8L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required.

■ GEOL 8H — Earth Science - Honors

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

An honors course designed to provide an enriched experience. Introduces fundamentals of geology, oceanography, meteorology, and astronomy. The companion Earth Science laboratory (GEOL 8L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required. Students may not receive credit for both GEOL 8 and GEOL 8H.

■ GEOL 8L — Earth Science Laboratory 1 Unit

Degree Applicable, CSU, UC

54 hours lab

Corequisite: GEOL 8 or GEOL 8H (may have been taken previously)
Laboratory applications and problem-solving in geology,
oceanography, meteorology, and astronomy. Recommended for
students needing a lab to transfer to a 4-year college/university.

■ GEOL 9 — Environmental Geology

3 Units
Degree Applicable, CSU, UC

54 hours lecture

For non-science majors. Relevant aspects of the geological environment and the problems caused by modern humans as they use the earth and its resources. Geologic hazards, including earthquakes, volcanoes, landslides, floods, subsidence. Emphasis on geological viewpoints concerning waste disposal, pollution, geothermal energy, fossil fuels, and mining. Geologic practices related to sound land management, conservation of resources, and protection of the environment. Field trips included.

■ GEOL 10 — Natural Disasters

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Surveys the hazards faced by humans from the natural environment. Analyzes a variety of hazards from a geological perspective. Studies the impact humans have on influencing or exacerbating natural disasters. Includes the role of government in responding to natural disasters. Field trips included.

■ GEOL 24 — 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

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

54 hours lecture

54 hours lab

Field studies of selected southern California geological provinces and surrounding areas. Overnight field trips required. Trips require significant hiking.

■ GEOL 29 — Special Topics in Field Geology 3 Units Degree Applicable, CSU

(May be taken four times for credit)

18 hours lecture

108 hours lab

Advisory: GEOL 1 or GEOL 8

Field studies of designated geologic provinces and regions. Emphasis on rock identification and interpretation of geologic histories of field areas. Extended overnight field trips, camping, and strenuous hiking required.

■ GEOL 99 — Special Projects in Geology

2 Units Degree Applicable, CSU

(May be taken four times for credit)

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

36 hours lecture

In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature to ensure that proficiencies are enhanced.

GERMAN

■ GERM 1 — Elementary German

4 Units

Degree Applicable, CSU, UC

72 hours lecture

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.

■ GERM 2 — Continuing Elementary German 4 Units Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: GERM 1 or equivalent

Further development of conversational reading and writing skills in German with emphasis on communication skills, expansion of vocabulary, and understanding of structure. Further study of Germanic culture.

■ GERM 3 — Intermediate German

4 Units

Degree Applicable, CSU, UC

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

Prerequisite: GERM 2 or three years of high school German or equivalent

Further development of communicative proficiency in German and exploration of Germanic culture. Further study and review of grammar and expansion of vocabulary. Increasing emphasis on reading and writing in German.

HISTORY

■ HIST 1 — History of the United States 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eliaibility for ENGL 68

History of the United States from Native American and colonial times to the present. Designed for transfer students who need a one-semester course in United States history to meet general education requirements. History and social science majors should take History 7 and 8. Satisfies the requirement for a course in American history, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code.

■ HIST 3 — World History: Prehistoric to Early Modern 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Human societies from their origins to the Early Modern period from a global and comparative perspective including social, political, economic, and cultural institutions and changes.

HIST 3H — World History: Prehistoric to Early Modern 3 Units Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Human societies from their origins to the Early Modern period from a global and comparative perspective including social, political, economic, and cultural institutions and changes. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 3 and HIST 3H.

■ HIST 4 — World History: Early Modern to the Present 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eliaibility for ENGL 1A

Social, political, economic, and cultural changes during the modern period from a global and comparative perspective.

■ HIST 4H — World History: Early Modern to the Present 3 Units - Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Social, political, economic, and cultural change during the modern period from a global and comparative perspective. Includes extensive reading and writing assignments. Students may not receive credit for both HIST 4 and HIST 4H.

■ HIST 7 — History of the United States to 1877 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Survey of American history from Native American origins through post-Civil War Reconstruction with an encompassing approach to the United States and its major ethnic and social groups. Explores the influence of the geography and environment of North America and the ethnic, social, and religious complexity of the population. Also examines political, philosophical, and intellectual influences on the founding fathers, American political institutions, and the citizens of the country. Satisfies the requirement for a course in American history, including the study of American institutions and ideas and the Constitution of the United States as required by Title 5 of the California Administrative Code.

■ HIST 7H — History of the United States to 1877 3 Units - Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Survey of American history from Native American origins through post-Civil War Reconstruction with an encompassing approach to the United States and its major ethnic and social groups. Explores the influence of the geography and environment of North America and the ethnic, social, and religious complexity of the population. Also examines political, philosophical, and intellectual influences on the founding fathers, American political institutions, and the citizens of the country. Satisfies the requirement for a course in American history, including the study of American institutions and ideas and the Constitution of the United States as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 7 and HIST 7H.

■ HIST 8 — History of the United States from 1865 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

United States history from 1865 to the present. Examines social, economic, political, intellectual, and military themes and patterns of United States development. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative Code.

■ HIST 8H — History of the United States from 1865 3 Units - Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

United States history from 1865 to the present. Examines social, economic, political, intellectual, and military themes and patterns of United States development. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 8 and HIST 8H.

■ HIST 10 — History of Premodern Asia 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

History of East, South, and Southeast Asia from the prehistoric age to the early modern period. Emphasizes social, political, economic, and cultural changes in Asia from a regional and comparative perspective.

■ HIST 11 — History of Modern Asia

Degree Applicable, CSU, UC

3 Units

54 hours lecture

Prereauisite: Eligibility for ENGL 68

History of East, South, and Southeast Asia from the early modern period to the present. Emphasizes social, political, economic, and cultural changes in Asia during the modern period from a regional and comparative perspective.

■ HIST 16 — The Wild West - A History, 1800-1890 3 Units Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Surveys the history of the Trans-Mississippi West to acquaint students with the historical significance, events and personalities which make up 19th Century American history.

■ HIST 19 — History of Mexico

3 Units
Degree Applicable, CSU, UC

54 hours lecture

The cultural and social history of the Mexican people from pre-Colombian civilization to modern Mexico.

■ HIST 30 — History of the African American 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

In the general framework of the U.S. historical process, surveys the history of African Americans from the African genesis to 1865, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code.

■ HIST 31 — History of the African American 3 Units

Degree Applicable, CSU, UC

54 hours lecture

In the general framework of the U.S. historical process, surveys the history of African Americans from the Reconstruction period to the present, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code.

■ HIST 35 — History of Africa

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

History of Africa from prehistoric times to the present with a focus on cultural, social, political, and economic changes. Topics include ancient African societies, European colonialism, and the reemergence of independent African states in recent decades.

■ HIST 36 — Women in American History 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Women's experience placed within the context of major themes of United States history, addressing issues and debates related to gender construction and identity from Colonial times to the present. Political, economic, and social currents within in the context of race, ethnicity, sexual orientation, and class are examined and analyzed. This course satisfies the requirement for a course in American history including the study of American institutions and ideals, as required by Title 5 of the California Administrative Code.

■ HIST 39 — California History

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

The social, intellectual, economic, and political development of California and the Pacific Coast from earliest times to the present.

■ HIST 40 — History of the Mexican American

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

A survey of United States history from colonial times to the present with a special emphasis on the role of La Raza (Hispanics) in the development of the nation. Satisfies the requirement for a course in American History, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code.

■ HIST 44 — History of Native Americans

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for English 68

History of the United States from Colonial times to the present with a special emphasis on the role of Native Americans. Examines the role Euro-American social, political, and economic movements play in the Native American experience and the mutual relationships generated through these factors. Critically analyzes how the Native American narrative is woven into the fabric of U.S. history and is an essential component of the complete American story.

■ HIST 99 — Special Projects in History

2 Units

Degree Applicable, CSU

36 hours lecture

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

HISTOTECHNOLOGY

■ HT 1 — Introduction to Histotechnology

1 Unit

Degree Applicable

18 hours lecture

Advisory: Eligibility for ENGL 68

An overview of the role of histotechnicians in preparation and analysis of tissues samples for diagnostic and research purposes. Introduction to Internet resources, support organizations and periodical references for histotechnicians, as well as regulatory agencies. Students will set up an educational plan and portfolio to be used throughout the remainder of the program.

■ HT 2 — Scientific Basics for Histologic Technicians 3 Units Degree Applicable

54 hours lecture

Advisory: Eligibility for ENGL 68

Defines all aspects of general laboratory issues including general laboratory protocols (GLP's), safety, ethics, and terminology relative to the preparation of tissue samples.

■ HT 10 — Histology

3 Units Degree Applicable

36 hours lecture 54 hours lab

Advisory: ANAT 35

Microscopy, image analysis; cell structure, reproduction and staining. Identification of tissues, organs and special microstructures, and their detailed morphology. Involves distinguishing normal features from pathological conditions.

■ HT 12 — Beginning Histotechniques

5 Units Degree Applicable

54 hours lecture

108 hours lab

Prerequisite: HT 1 and HT 2

Advisorv: MICR 22

Theory and practical applications and skill-building in tissue fixation, processing, embedding, sectioning, microtomy, hematoxylineosin staining (H and E), and microorganism staining, Quality control as it relates to routine histological techniques and equipment.

■ HT 14 — Advanced Histotechniques

5 Units Degree Applicable

54 hours lecture

108 hours lab

Prereauisite: HT 12

Practical applications of special stains for carbohydrates, amvloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to frozen sections, cytology preparation, and microwave technology. Field trip required.

■ 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 tissue staining.

■ HT 17 — Work Experience in Histotechnology 1 to 4 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: HT 12 and compliance with Work Experience regulations as designated in the College Catalog

Provides histotechnology students with actual on-the-iob experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

HOSPITALITY AND RESTAURANT MANAGEMENT

■ HRM 51 — Introduction to Hospitality

3 Units

1.5 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Brief review of the historical development of the hospitality industry; social and economic influences on the current leisure industry structures. Career opportunities at various levels in hotels, restaurants, food service institutions and private clubs/resorts. Education and experience requirements, personal qualifications, job responsibilities, job procurement and future opportunities.

■ HRM 52 — Food Safety and Sanitation

Degree Applicable, CSU

27 hours lecture

Prerequisite: Eligibility for ENGL 68

Basic principles of sanitation and safety in the food service industry. Emphasis on the role of management in design, implementation and training to establish an effective Hazard Analysis Critical Control Point (HACCP) system. Students will have the opportunity to earn the National Restaurant Association's ServSafe Certificate upon completion of the course.

■ HRM 53 — Dining Room Service Management 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 1A

Skills and knowledge needed for all aspects of dining room service. Exploration of the five different service styles and their relationship to various environments. Table setting styles, buffet set-ups, wine and beverage service, and service as a sales tool are covered. Safety of both customer and staff are discussed.

■ HRM 54 — Basic Cooking Techniques

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Advisory: HRM 52

Basic principles of preparing foods for commercial operations; the use and identification of commercial tools and equipment; extending recipes; and choosing the proper food grade; evaluation of food products, and equipment usage.

■ HRM 56 — Management of Hospitality Personnel 3 Units and Operations

Degree Applicable, CSU

54 hours lecture

Management skills course for students pursuing a career in supervision within the restaurant/hospitality industry. Application of basic management concepts and techniques necessary to achieve objectives in the management of operations and human resources in restaurant and hospitality businesses including analysis of hospitality workplace; the manager's responsibilities in training, coaching, and performance appraisal of employees; decision making, leadership, and planning.

■ HRM 57 — Restaurant Cost Control

3 Units

Degree Applicable, CSU

54 hours lecture

Corequisite: HRM 51 (May have been taken previously)

Methods for controlling resources within the hospitality operation to maximize profits without compromising products. Discusses controls in front of the house, back of the house, purchasing and receiving.

■ HRM 60 — Hospitality Purchasing

3 Units

Degree Applicable, CSU

54 hours lecture

Basic principles of purchasing for the hospitality industry. Ordering, receiving, storage, characteristics of products and grade selection for different situations are emphasized. Choosing the best supplier, negotiating the best terms and writing product specifications are covered.

■ HRM 61 — Menu Planning

3 Units

Degree Applicable, CSU

54 hours lecture

Advisorv: HRM 51

Menu development for all facets of the food service industry including retail and contract operations; emphasis on the economics of the menu and the demographics of the area. Analysis of menus with regard to limitations of the facility and staff, pricing and menu design relative to the economy and culture of the target area. Specialty menus such as ethnic, fast food, catering and various contract situations are included.

■ HRM 62 — Catering

3 Units Degree Applicable, CSU

54 hours lecture

Comprehensive exploration of the catering business with in-depth study of organizing and catering both on-premise and off-premise events. Marketing and working with clients to combine menu with price. Contracting outside vendors, problem solving and avoiding common problems before they occur.

■ HRM 64 — Hospitality Financial Accounting I 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: BUSA 11 or MATH 51

Introduction to financial accounting specifically for the hospitality business. Emphasis is on tailoring the Uniform System of Accounting to hotels, restaurants, clubs and other food service operations.

■ HRM 66 — Hospitality Law

3 Units

Degree Applicable, CSU

54 hours lecture

Advisorv: HRM 51

Basic principles of contracts, liability and labor as they apply specifically to the hospitality industry. Students will discuss previous cases and decide the fates of fictional litigations as a preventive approach to problems that can occur.

■ HRM 70 — Introduction to Lodging

3 Units Degree Applicable, CSU

54 hours lecture

Advisory: HRM 91

Introduction to basics of the lodging industry. Acquaints students with front office operations, accounting, guest service, house-keeping and food service. Includes human resource management and property management. Enrollment in Work Experience in Restaurant/Food Service (RSTR 91, 92, 93 or 94) is needed for articulation to California Polytechnic State University.

■ HRM 81 — Garde Manger

3 Units Degree Applicable

36 hours lecture

54 hours lab

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.

■ 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.

■ HRM 83 — International Cuisines

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Corequisite: HRM 52 (May have been taken previously)

Preparation of international cuisines from Asia, Europe, the Mediterranean, and Latin America. Emphasis will be placed on regional dishes from: China, Japan, India, Thailand, Spain, Italy, France, Greece. Lebanon, and Mexico.

■ HRM 91 — Hospitality Work Experience

1 to 4 Units

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

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

Provides students with on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by faculty. Students who repeat this course will improve skills through further instruction and practice.

HUMANITIES

■ HUMA 1 — The Humanities

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

An interdisciplinary study of the artistic, musical, literary and philosophical accomplishments and achievements of women and men in western society from the ancient Middle East to the present. Emphasizes creating an awareness of human expression as it occurs in a historical and philosophical context.

INDUSTRIAL DESIGN ENGINEERING

■ IDE 110 — Design Foundation-Visual Literacy 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Corequisite: IDE 120 and IDE 130

Develops visual literacy to communicate industrial design concepts, analyze visual structures of images and objects, and decipher manufacturing techniques used for existing products. A portfolio-based course that explores sketching techniques for industrial design based on formal design concepts and principles and promote an understanding of design used for functional and aesthetic problem solving used in industrial design.

■ IDE 120 — Introduction to CAD

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Corequisite: IDE 110 and IDE 130

Computer Aided Design (CAD) applications and design processes used in industrial design and manufacturing. A portfolio-based course that requires students to generate industry standard CAD drawings used for manufacturing.

■ IDE 130 — Shop Processes

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Corequisite: IDE 110 and IDE 120

Methods and tools used for creating production prototypes, breadboards, and mock-ups used for fabrication and manufacturing industries. Focus is on tool and process selection, safety, and mastery of machine operation skills and techniques.

■ IDE 150 — Design Foundations

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: IDE 110 and IDE 120 and IDE 130

Corequisite: IDE 160 and IDE 170

Digital graphic media for industrial design used to convey complex design and manufacturing criteria. Focuses on design solutions for conceptual and structural problems with an emphasis on drawing techniques, rapid visualization, color theory, and Computer Assisted Design (CAD) techniques required for effective visual communication.

■ IDE 160 — Intermediate CAD

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: IDE 110 and IDE 120 and IDE 130

Corequisite: IDE 150 and IDE 170

Applications, methods, theories, and industrial design processes used in engineering and industrial design fields. A portfoliobased course that develops skills in sketching, communicating, constructing mock ups and displays, prototyping, and 2D and 3D Computer Assisted Design (CAD) parametric solid modeling.

■ IDE 170 — Introduction to Prototyping

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: IDE 110 and IDE 120 and IDE 130

Corequisite: IDE 150 and IDE 160

Processes and materials typically employed when creating breadboards, proof of concept models, form studies and productionintent prototypes. Provides hands-on experience with fabrication techniques including related tools and machinery. Emphasis is placed how the design process is influenced by material and manufacturing limitations.

■ IDE 210 — Advanced Media

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: IDE 150 and IDE 160 and IDE 170

Corequisite: IDE 220 and IDE 230

Digital media used for designing, redesigning, and inventing industrial products. Develops illustration and conceptualization skills using media and technology such as digital project photography, 2D scanners, sketch tablets, and presentation and illustration software. Emphasis is placed on refining and completing a comprehensive portfolio.

■ IDE 220 — Advanced CAD

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: Ide 150 and IDE 160 and IDE 170

Corequisite: IDE 210 and IDE 230

Complex surface modeling in hybrid surface and solid environments using rapid modeling methods. Integrates manufacturing technologies, materials, and machine design with an emphasis on translating concepts from visualization manufacturing projects generated using computer aided manufacturing (CAM) and rapid prototyping technologies.

■ IDE 230 — Introduction to Mechanical Principles 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Prerequisite: IDE 150 and IDE 160 and IDE 170

Corequisite: IDE 210 and IDE 220

Mechanical devices, concepts and principles common to manufactured products and manufacturing processes. Analysis, discussion, and problem solving related to mechanical design scenarios and supported by computer aided design (CAD). Exploration of inherent strengths and weaknesses of specific devices and various design approaches. Emphasis on the way mechanical principles affect design strategies.

■ IDE 250 — Product Design and Viability

y 6 Units Degree Applicable, CSU

54 hours lecture 162 hours lab

Prerequisite: IDE 210 and IDE 220 and IDE 230

Corequisite: IDE 270

Product life cycle from design through manufacturing and distribution. Portfolio-based course that includes fabrication of a viable product and incorporates every stage of project management including research, graphic presentation, parts sourcing, material choices and fabrication of prototype.

■ IDE 270 — Manufacturing Processes and Materials 3 Units

Degree Applicable, CSU

9 hours lecture 135 hours lab

Prerequisite: IDE 210 and IDE 220 and IDE 230

Corequisite: IDE 250

Relationships between common manufacturing processes and associated materials including advantages, limitations, and their impact on the design process. Reverse engineering and computer aided design (CAD) model construction assists with understanding common design approaches and real-world manufacturing problems and solutions.

INSPECTION AND ESTIMATING, BUILDING

■ INSP 17 — Legal Aspects of Construction

3 Units

Degree Applicable, CSU

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

54 hours lecture

Advisory: INSP 70 taken prior or concurrently or equivalent experi-

ence

Fundamentals of the legal aspects of the construction industry involving homeowner, contractor and builder/developer. Includes codes, licensing, bonds, and lien laws.

■ INSP 67 — Reading Construction Drawings 3 Units

Degree Applicable, CSU

54 hours lecture

Fundamentals of reading construction drawings as related to architecture, construction, interior design, and related fields.

■ INSP 70 — Elements of Construction

3 Units

Degree Applicable, CSU

54 hours lecture

Fundamentals of construction processes, terminology and procedures. Provides an overview of the construction industry to those who may have an interest in the construction industry and related fields.

■ INSP 71 — Construction Estimating

3 Units
Degree Applicable, CSU

54 hours lecture

Construction estimating and bidding procedures using contract documents, construction drawings and cost data. Estimating methods and use of estimating forms or software, including detailed quantity take-offs of building materials and labor required in building construction.

■ INSP 87 — Fundamentals of Construction Inspection 3 Units Degree Applicable, CSU

54 hours lecture

Construction inspection of light frame wood construction and steel structures. Topics include vertical and horizontal loads, stress analysis, framing and structural standards of lumber and steel, metallurgy and welding.

INTERIOR DESIGN

■ ID 10 — Introduction to Interior Design

n 3 Units Degree Applicable, CSU

36 hours lecture 54 hours lab

Formerly ID 100.

Practice of interior design and the planning of total interior environments that meet individual, functional and environmental needs. Field trips may be required.

■ ID 12 — Materials and Products for Interior Design 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab
Advisorv: ID 10

Formerly ID 150.

Analysis, application, and evaluation of products and materials used in interior design. Field trips required.

■ ID 14 — History of Furniture and Decorative Arts 3 Units Degree Applicable, CSU

54 hours lecture

Formerly ID 180 and ID 190.

Historic development of structure, interior spaces, furniture and decorative arts throughout the world. Interior architecture is illustrated in this overview of design heritage from antiquity to present. Emphasis is placed on style development as it relates to social, economic and political influences as well as the use of materials and technology. Field trips may be required.

■ ID 20 — Color and Design Theory I

3 Units
Degree Applicable, CSU

36 hours lecture

54 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.

■ 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.

■ 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 fundamentals, methods of drawings, and the basics of compiling construction documentation sets. Field trips may be required.

■ ID 23 — Computer Aided Drawing for Interior Design I 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 interior design ideas to building trades. Includes graphic and drawing techniques, interior design graphics, building construction fundamentals, methods of drawings, and construction documentation sets. Portfolio pieces will be produced. Field trips may be required.

■ ID 25 — Space Planning for Interior Design I

I 3 Units Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: ID 22 or ARCH 11

Formerly ID 250.

Federal and state codes and specifications concerning life-safety issues, barrier free access and universal design requirements relative to residential and contract interior design. Attention is given to performance, health safety, and universal design for specifying interior materials and products. Portfolio pieces will be produced. Field trips may be required.

■ ID 26 — Space Planning for Interior Design II 3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Prereauisite: ID 22 or ARCH 11

Advisory:ID 25

Formerly ID 170.

Space planning with an emphasis on programming, behavioral aspects of space, use of furniture standards and applicable codes. Planning skills are gained through the application of basic principles to actual spaces. Portfolio pieces will be produced. Field trips may be required.

■ ID 27 — Rapid Visualization

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Prerequisite: ID 22 or ARCH 11

Formerly ID 260.

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.

■ ID 29 — Interior Design Studio I

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Prerequisite: ID 26

Advisories: ID 12, ID 21, ID 27

Formerly ID 105.

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.

■ ID 31 — Building Systems for Interior Design 3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: ID 22 or ARCH 11

Residential and commercial construction systems and materials. Includes typical building systems used in construction that affect interior design and elements that make up the foundation, floors, walls, and roof. Field trips may be required.

■ ID 32 — Lighting Design and Theory for Interior Design

Degree Applicable, CSU

3 Units

3 Units

36 hours lecture 54 hours lab

Prerequisite: ID 22 or ARCH 11

Formerly ID 210.

Principles and theory of interior lighting design, lighting technology, terminology, development of lighting design concepts and selection and placement of luminaries to achieve the desired result. Portfolio pieces will be produced. Field trips may be required.

■ ID 34 — Computer Aided Drawing for Interior Design II

Degree Applicable, CSU

36 hours lecture 54 hours lab *Prerequisite: ID 23*

Three-dimensional computer modeling, rendering, lighting, and fly-throughs as used in interior design. Portfolio pieces will be produced. Field trips may be required.

■ ID 36 — Professional Practices for Interior Design 3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab Advisory: ID 29

Development of individual professional identities through self-branding as a marketing strategy. Emphasis is on personal, educational, and professional qualifications required for entry into interior design and related professions. Surveys the interior design profession, industry, and related occupations. Portfolio pieces will be produced. Field trips may be required.

■ ID 37 — Business Practices for Interior Design 3 Units Degree Applicable

54 hours lecture

Formerly ID 230.

Principles, procedures, and systems necessary for interior design professionals to start a business. Emphasis will be placed on contracts, legal issues, budgets, revenue generation, purchasing, billing, compensation and collection, interactions with clients, designers, installers, and suppliers. Field trips may be required.

■ ID 38 — Internship in Interior Design

1 to 3 Units
Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 225 hours lab

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

Formerly ID 240A and 240B.

Designed to provide the student with actual on-the-job experience in the interior design profession, which relates to classroom based learning. Placement is not guaranteed but assistance is provided by the interior design faculty. A minimum 75 paid clock hours or 60 non-paid clock hours per semester is required. Students who repeat this course will improve skills through further instruction and practice.

■ ID 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 conditions. Portfolio pieces will be produced. Field trips may be required.

■ ID 40 — Kitchen and Bath Studio I

3 Units Degree Applicable

36 hours lecture 54 hours lab

Prerequisite: ID 22 or ARCH 11

Advisory: ID 31 and ID 32

Kitchen and bath design that focuses on ergonomic principles, and specific materials including floor and wall surfaces, window treatments, cabinet selection, appliance and fixture selection, counter top selection, and lighting. Projects will consist of dimensioned floor plans, elevations, isometric drawings, perspective drawings, and section drawings completed in accordance with National Kitchen and Bath Association (NKBA) standards and nomenclature. Portfolio pieces will be produced. Field trips may be required.

■ ID 41 — Kitchen and Bath Studio II

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: ID 40

Advisory: ID 32

Kitchen and bath design that focuses on universal design, design concepts, and historical design for kitchen and bath projects. Emphasis is placed on ergonomics and American Disability Act (ADA) considerations. Projects will utilize graphic standards as recommended by NKBA. Field trips may be required.

■ ID 48 — Internship in Kitchen and Bath

1 to 3 Units
Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 225 hours lab

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

Corequisite: ID 40 (May have been taken previously.)

Formerly ID 240C.

Designed to provide the student with actual on-the-job experience in the interior design profession at a National Kitchen and Bath (NKBA) member work site, which relates to student?s classroom based learning. Placement is not guaranteed but assistance is provided by the interior design faculty. A minimum 75 paid clock hours or 60 non-paid clock hours per semester is required. Students who repeat this course will improve skills through further instruction and practice.

■ ID 50 — Interior Design Specialized Studio

3 Units
Degree Applicable

(May be taken four times for credit)

36 hours lecture

54 hours lab

Prerequisite: ID 26

Exploratory design experience to enhance interior design curriculum. The content of each course and the methods of study vary each semester and depends on the particular project under consideration Students will explore advanced interior design concepts and presentation techniques. Students who repeat this course will improve skills through further instruction and practice. Portfolio pieces will be produced. Field trips may be required.

■ ID 52 — Independent Studies in Interior Design 1 to 3 Units Degree Applicable

(May be taken four times for credit)

54 to 162 hours lab

Extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Interior Design. Portfolio pieces will be produced.

ITALIAN

■ ITAL 1 — Elementary Italian

4 Units Degree Applicable, CSU, UC

72 hours lecture

Intended for students without previous exposure to Italian. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Italian culture. Begins to develop the ability to converse, read. and write in Italian.

■ ITAL 2 — Continuing Elementary Italian 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: ITAL 1 or equivalent

Further development of conversational, reading and writing skills in Italian with special emphasis on verbs, grammar and extension of vocabulary. Further study of Italian culture.

■ ITAL 3 — Intermediate Italian

4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: ITAL 2 or equivalent

Development of intermediate Italian language skills and their use as tools in exploring Italian civilization. Further study and review of grammar, exercises in word building, derivation and the extension of the active and recognition vocabularies. Extensive exposure to Italian culture, such as film, music and history.

■ ITAL 4 — Continuing Intermediate Italian 4 Units Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: ITAL 3 or equivalent

Further practice in speaking and writing of intermediate Italian. Collateral reading in Italian. Extensive exposure to cultural elements from Italy such as art, music, film and history.

■ ITAL 5 — Advanced Italian

4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: ITAL 4 or equivalent

Emphasis is placed on increased facility to read and write advanced Italian. Cultural insights are developed through the study of various Italian literary types.

■ ITAL 6 — Continuing Advanced Italian 4 Units

Degree Applicable, CSU, UC

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

Prerequisite: ITAL 5 or equivalent

Extensive advanced reading, writing, and speaking in Italian that further develop cultural insight through the study of various Italian literary types.

■ ITAL 52 — Conversational Italian

3 Units

Degree Applicable

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

Prerequisite: ITAL 1 or equivalent

Development of elementary Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context.

3 Units ■ ITAL 53 — Continuing Conversational Italian Degree Applicable, CSU, UC

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

Prerequisite: ITAL 2 or ITAL 52 or equivalent

Development of intermediate Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context.

3 Units ■ ITAL 54 — Advanced Conversational Italian

Degree Applicable, CSU, UC

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

Prerequisite: ITAL 3 or ITAL 53 or equivalent

Development of advanced Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. Students who repeat this course will improve their skills through further instruction and practice.

■ ITAL 60 — Italian Culture Through Cinema 3 Units

Degree Applicable, CSU, UC

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

Italian culture through cinema from 1900 through analysis of the aesthetic, literary, artistic and philosophical movements in Italy as reflected in the works of the Italian film makers and writers. Lecture and class discussion to be conducted in English; film presentation with English subtitles.

JAPANESE

■ JAPN 1 — Elementary Japanese

4 Units

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Intended for students without previous exposure to Japanese. Begins to develop the ability to converse, read, and write in Japanese, Includes the study of essentials of pronunciation. vocabulary, idioms, and grammatical structures. Introduction to Japanese culture.

■ JAPN 2 — Continuing Elementary Japanese 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: JAPN 1 or equivalent

Further development of conversational, reading and writing skills in Japanese with special emphasis on verbs, grammar, and extension of vocabulary. Includes a discussion of Japanese culture.

■ JAPN 3 — Intermediate Japanese

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: JAPN 2 or equivalent

Continued development of Kanji (50 or more characters) with 60 additional readings. Continued development of writing ability emphasizing development of thought through Kanji, Hiragana and Katakana. Additional development of cultural application of Japanese.

4 Units ■ JAPN 4 — Continuing Intermediate Japanese

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: JAPN 3 or equivalent

Further practice in listening comprehension, communicative proficiency, writing and reading in Japanese. Advanced study and review of grammar and vocabulary. Readings and discussions of Japanese cultural topics and introduction to Japanese literature.

■ JAPN 5 — Advanced Japanese

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: JAPN 4 or equivalent

Advisory: Eliaibility for ENGL 68

Advanced Japanese communication skills with emphasis on conversational skills for daily and social settings in Japanese culture. Advanced study of grammar, vocabulary, Kanii characters, listening, speaking, reading, and writing. Extensive exposure to cultural elements from Japan such as art, music, film, and history.

■ JAPN 53 — Conversational Japanese

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: JAPN 2 or equivalent

Development of intermediate Japanese conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Japanese culture. Grammar is presented in context.

JOURNALISM

■ JOUR 100 — Mass Media and Society

ety 3 Units
Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: ENGL 1A

Survey of the mass media and the interrelationships of media with society, including history, structure, and trends. Additionally, the following topics will be covered as they pertain to the mass media: economics, technology, law and ethics and such social issues as gender and cultural diversity.

■ JOUR 101 — Beginning News Writing

ing 3 Units
Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: ENGL 1A

Evaluating, gathering, and writing news in accepted journalistic style under newsroom conditions. Includes role of the reporter and the legal and ethical issues relating to reporting. The student will have writing and reporting experiences, including personal interviews, speech, meeting and other event coverage, deadline writing, and use of AP style.

■ JOUR 102 — Intermediate Newswriting

riting 3 Units
Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: JOUR 101

Develop expertise in news beat coverage and other specialized writing, including computer-assisted reporting. Print journalism emphasized with introduction to Web reporting. Assignments may include writing for the campus newspaper.

■ JOUR 103 — Writing for the Newspaper and Magazine 2 Units Degree Applicable

(May be taken four times for credit)

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

108 hours lab

Prerequisite: JOUR 101

Practical experience writing for the college student newspaper or magazine. Activities may include reporting, story writing, copyediting. Students who repeat this class will improve skills through further instruction and practice.

■ JOUR 104 — Newspaper and Magazine Production 2 Units and Photography Lab

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours lab

Provides experience in the production of a college newspaper and magazine. Provides learning through electronic assembly of the newspaper and magazine using computers, layout and design software, image editing software, illustration software, digital cameras, and scanners. Students who repeat this course will improve skills through further instruction and practice.

■ JOUR 105 — Editor Training

1 Unit

Degree Applicable

(May be taken four times for credit)

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

54 hours lab

Advisory: JOUR 101

Stresses leadership skills in a journalistic setting using the student newspaper as a practical laboratory. Designed for students selected to serve as editors or managers of the paper. Students who repeat this course will improve skills through further instruction and practice.

■ JOUR 106 — Online New Media Laboratory 2 Units Degree Applicable, CSU

(May be taken four times for credit)

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

108 hours lab

Provides experience in a variety of online publishing activities to produce and enhance the online edition of a college newspaper. Provides learning thorugh use of computers and online publishing software, podcasting software, web design software, live and videotape broadcasting software, digital cameras, video cameras, and wireless computer technology. Students who repeat this course will improve skills through further instruction and practice.

■ JOUR 107 — Race, Culture, Sex, and Mass Media Images 3 Units

Degree Applicable, CSU

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

54 hours lecture

Advisory: ENGL 1A

Studies the role mass media plays in the social, political, and economic integration of minorities, cultures, women, and gays and lesbians into American society. Examines ways that mass media impacts public attitudes and behaviors.

■ JOUR 108 — Writing for Public Relations

ns 3 Units
Degree Applicable, CSU

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

54 hours lecture

Prereauisite: JOUR 101 or JOUR 1A

An introduction to public relations writing including news releases, fact sheets, feature stories, institutional publications, and newsletters. The relationships between public relations, the mass media, and society will be explored.

■ JOUR 109 — Public Relations Internship

3 Units

Degree Applicable

(May be taken two times for credit)

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

225 hours lab

Advisory: JOUR 108 or JOUR 8

Field work in pubic relations. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

■ JOUR 110 — Magazine Writing and Production 3 Units Degree Applicable

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

36 hours lecture

54 hours lab

Prereauisite: JOUR 101 or JOUR 1A

Production of a student-run magazine in a professional setting. Activities may include fiction and nonfiction writing, editing, ethics, interviewing, photography, art and layout. Overview of the magazine industry and markets explored.

■ JOUR 111 — Broadcast News Writing

3 Units
Degree Applicable, CSU

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

54 hours lecture

Prerequisite: JOUR 1A or JOUR 101

Intensive news gathering and writing for radio and television. Newscast planning, story organization, and functions of a broadcast newsroom are explored. Emphasis on assignments for both audio and video tape media. Lecture and discussion of issues and responsibilities confronting broadcast journalists including ethics and changing technology.

■ JOUR 112 — Work Experience in Journalism 3 to 4 Units

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

225 to 300 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. JOUR 101 or JOUR 1A and ENGL 1A

This course is designed to provide majors with actual on-thejob experience in an approved work station which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

KINESIOLOGY: ADAPTIVE

■ KINL 2 — Physical Fitness for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

A modified physical fitness conditioning program incorporating cardiovascular training exercises, specifically designed for students with a disability or limitation. Students who repeat this course will improve their fitness level through further instruction and practice.

■ KINL 4 — Adaptive Aquatics

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

54 hours activity

Designed to assist students with a disability or limitation to develop or improve swimming skills. Appropriate for swimmers and nonswimmers. Students who repeat this course will improve their skills through further instruction and practice.

■ KINL 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.

■ KINL 14 — Activity Programs for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed for students with a disability or limitation who require special assistance or equipment to participate in leisure activities. Course content will vary each semester in order to meet current students? needs. Students who repeat this course will improve their skills through further instruction and practice.

■ KINL 18 — Weight Training for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed to assist students with a disability or limitation develop strength, endurance, flexibility, and physical fitness through weight training. Students who repeat this course will improve their muscular strength and endurance through further instruction and practice.

KINESIOLOGY: AQUATICS

■ KINA 8A — Swimming - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming ability. Students who repeat this course will improve skills through further instruction and practice.

■ KINA 8B — Swimming - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Designed to improve competence in swimming ability for individuals who have had instruction in all of the basic strokes and can swim in deep water. Students who repeat this course will improve skills through further instruction and practice.

■ KINA 8C — Swimming - 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

Prerequisite: Demonstrate proficiency equivalent to Red Cross Level IV Swimming Test.

Designed to offer aquatic techniques of an advanced level and to refine the skill of the competent swimmer. Students who repeat this course will improve skills through further instruction and practice.

■ KINA 14 — Water Polo

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Fundamental water polo skills including conditioning, drills, and game situations. Students who repeat this course will improve skills through further instruction and practice.

■ KINA 18 — Springboard Diving

.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

Student must possess above average diving ability or experience in tumbling or gymnastics. Individualized instruction in the fundamentals and techniques of springboard diving. Students who repeat this course will improve skills through further instruction and practice.

■ KINA 20 — Aquatic Fitness

.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

Student must be able to perform front crawl 50 yards. Designed to improve and maintain aquatic fitness. Emphasis on building strength, endurance and cardiovascular fitness. Students who repeat this course will improve skills through further instruction and practice.

■ KINA 21 — Agua Aerobics

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed to improve cardiovascular endurance, strength, agility, flexibility and general fitness through the mode of dynamic movement in the water. Appropriate for swimmers and nonswimmers. Students who repeat this course will improve skills through further instruction and practice.

■ KINA 24 — Aquatic Off-Season 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

A conditioning course for the competitive swimmer to receive individualized training in order to improve performance. Students who repeat this course will improve skills through further instruction and practice.

KINESIOLOGY: ATHLETICS

■ KINX 6 — Baseball - 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 Baseball Team candidates to provide instruction in the components of training and conditioning related to the sport of baseball. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 8 — Basketball - 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 Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 10 — Basketball - 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 Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 11 — Cross Country - 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 Cross Country Team candidates to provide instruction in the components of training and conditioning related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 12 — Cross Country - 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 Cross Country Team candidates to provide instruction in the components of training and conditioning related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 16 — Football - 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 Football Team candidates to provide instruction in the components of training and conditioning related to the sport of football. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 18 — Golf - 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 Golf Team candidates to provide instruction in the components and training related to the sport of golf. Classes will be held off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs.

■ KINX 19 — Golf - 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 Golf Team candidates to provide instruction in the components and training related to the sport of golf. Classes will be held off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs.

■ KINX 24 — Soccer - 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 Soccer Team candidates to provide 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.

■ KINX 25 — Soccer - 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 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.

■ KINX 26 — Softball - 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 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.

■ KINX 28 — Swimming - 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 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.

■ KINX 30 — Swimming - 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 Swim Team candidates and 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.

■ KINX 32 — Tennis - 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 Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 34 — Tennis - 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 Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 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.

■ KINX 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.

■ KINX 44 — Volleyball - 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 Volleyball Team candidates to provide instruction in the components of training and conditioning related to the sport of volleyball. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 46 — Volleyball - 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 Volleyball Team candidates to provide instruction in the components of training and conditioning related to the sport of volleyball. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 48 — Water Polo - 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 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.

■ KINX 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.

■ KINX 50 — Wrestling - 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 Wrestling Team candidates to provide instruction in the components and conditioning related to the sport of wrestling. Students who repeat this course will improve through further instruction and practice.

■ KINX 70 — Pep Squad

.5 to 3.5 Units
Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity

Provides training and experience for members of pep squads or rally units who are directly supportive of Mt. SAC activities. Students who repeat this course will improve skills through further instruction and practice.

■ KINX 88 — Pre-Season Athletics

.5 to 3.5 Units

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours lab

Pre-season intercollegiate athletics. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic conditioning, drill technique, strength conditioning, speed development and game play. Students who repeat this course will improve skills and fitness through further instruction and practice.

■ KINX 99 — Off-Season Athletics

.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

Designed for athletic team candidates in an off-season program. Includes sport-specific training with the purpose of developing areas of individual weaknesses. Students who repeat this course will improve skills through further instruction and practice.

KINESIOLOGY: FITNESS

■ KINF 2A — Body Building - Beginning

ing .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Basic fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 2B — Body Building - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Advanced strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 4 — Cardiovascular Conditioning

ning .5 to 1 Unit Degree Applicable, CSU, UC

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(May be taken four times for credit)

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

36 to 54 hours activity

Designed to improve fitness levels through cardiovascular activities. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 6A — Physical Fitness - 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

Presents beginning components of physical fitness. Students identify individual fitness level, participate in activities designed to improve overall fitness and use cardiovascular equipment to achieve fitness goals. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 6B — Physical Fitness - 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 36 hours activity

Develops intermediate levels of physical fitness. Students analyze individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 6C — Physical Fitness - Advanced .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Advanced components of physical fitness. Students integrate fitness components into a personal fitness program and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 9 — Conditioning for Sports

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

A conditioning course for students and athletes to develop muscular strength and endurance, flexibility, core training skills, and cardiorespiratory fitness. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 10 — Weight Training

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

A muscular conditioning program using machines and free weights. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 12 — Fitness and Body Conditioning .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Circuit training, aerobic activity, and overview of health concepts. Emphasis on nutrition, weight management, stress reduction, and the benefits of exercise on overall health. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 13 — Exercise Dynamics

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Increased fitness and body conditioning with increased frequency and duration of circuit training and aerobic activity; continued overview of health concepts; heightened emphasis on nutrition. weight management, stress reduction and the benefit of exercise on overall health. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 17 — Fitness Walking

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fitness walking, a low-impact aerobic activity, as part of an overall wellness program. The class walks on courses around Mt. San Antonio College and the surrounding community. Includes nutrition, personal skill development, weight management, cardiovascular endurance, stress management, and goal setting. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 18 — Fitness Fundamentals

2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Provides the foundations in specific areas of fitness to set-up. maintain and organize a personalized fitness program. Presents in-depth coverage of each area of fitness in managing and promoting an individualized fitness regime. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 19 — Strength Training

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Designed for students concentrating on strength development through various types of exercise. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 22 — Total Fitness

tion and practice.

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Fitness training with increased frequency and duration, Includes nutrition, exercise concepts, stress management, cardiovascular conditioning, muscle strength and flexibility training. Students who repeat this course will improve skills through further instruc-

■ KINF 25 — Core Performance and Foundation Movement 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Body core training and foundation movement for students interested in improving their fitness level. Students who repeat this class will improve with continued practice and instruction.

■ KINF 34 — Cardiorespiratory Training .5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity

Individualized exercise programs designed to improve cardiorespiratory performance. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 36 — Circuit Training

.5 to 2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity

Muscular strength and endurance exercise on circuit training equipment. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 38 — Aerobics

.5 to 2 Units
Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity

Group aerobic exercise to improve cardiorespiratory efficiency. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 50 — Physical Skills Preparation for 2 Units Administration of Justice and Fire Technology

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Through supervised and individualized training programs, the student will develop the necessary conditioning levels to pass entrance examinations in Administration of Justice and Fire Technology fields. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 51 — Agility Testing Preparation for 1 Unit Administration of Justice and Fire Technology Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 71 hours activity

A training program directed toward physical agility testing approximating the testing process required by various law enforcement and fire agencies. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 52 — Fitness and Conditioning for Administration 1 Unit of Justice, Fire Technology, and Forestry

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 71 hours activity

A conditioning program to maintain strength, agility, cardiovascular fitness and flexibility necessary to perform the tasks required of personnel in fields of law enforcement, fire science and forestry. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 53 — Physical Training for the Basic Fire Academy 2.5 Units Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 133 hours activity

Prepares the Basic Fire Academy student for the physical demands of the fire service. Through a supervised individualized training program, the student acquires cardiovascular endurance, flexibility and strength. Students who repeat this course will improve skills through further instruction and practice.

■ KINF 59 — Firefighter Physical Ability Test .1 Unit

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

2 hours activity

Administration of physical ability test examination. Includes nutrition, safety, body mechanics, exercise guidelines and execution of fire-related tasks. Successful completion of this course is required by various fire agencies for employment. Students must obtain test packet from website: firepat.mtsac.edu prior to enrolling. Repeating this course will allow for renewal of certificate and improvement of technique through further instruction and practice.

KINESIOLOGY: INDIVIDUAL

■ KINI 4A — Badminton - 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

Beginning badminton fundamentals and techniques, including singles and doubles play. Students who repeat this course will improve their skills through further instruction and practice.

■ KINI 4B — Badminton - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate badminton techniques, including singles and doubles play. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 4C — Badminton - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Advanced badminton techniques, including singles and doubles tournament play. Students who repeat this course will improve their skills through further instruction and practice.

■ KINI 18A — Golf - 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

Golf fundamentals with an emphasis on technique, strategy, and rules. Students who repeat this course will improve their skills through further instruction and practice.

■ KINI 18B — Golf - 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

Instruction and practice to individuals who have had previous golf experience and have played a regulation eighteen hole course. Classes will be held at sites both on and off the Mt. SAC campus. Golf clubs required. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 18C — Golf - 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 proficient golfer (Sub 15 Handicap). Emphasis on golf swing analysis. Golf classes will be held at sites both on and off the MT.SAC campus. Golf clubs required. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 25 — Mixed Martial Arts

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

The sport of submission grappling. An integration of striking and close-combat martial arts. Students who repeat this course will improve their skills through further instruction and practice.

■ KINI 27A — Jeet Kune Do - 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 and principles of Bruce Lee's martial art. Emphasis on footwork, distance, and technique for combat efficiency in self-defense. Students who repeat this course will improve proficiency as a result of continued instruction and practice.

■ KINI 27B — Jeet Kune Do - Intermediate .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate principles of Bruce Lee's martial art. Intermediate level footwork, distance, and technique (punching, kicking, and grappling) for combat efficiency. Students who repeat this course will improve proficiency as a result of continued instruction and practice.

■ KINI 29 — Self Defense/Martial Arts .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic concepts of self-defense and martial arts. Covers technique in three ranges of combat: grappling, kick/punch, and weapons range. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 30A — Filipino Martial Arts - Beginning .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Filipino martial arts of Eskrima and Arnis. Basic weapons training for defense in armed and unarmed scenarios. Students who repeat this course will improve skills through further instruction.

■ KINI 30B — Filipino Martial Arts - Intermediate .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

The Filipino martial arts of Eskrima and Arnis. Intermediate armed, unarmed and edged weapons training. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 31A — Jiujitsu - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of Brazilian Jiujitsu. Basic positions, breakfalls, training techniques, strategy, finishing holds, competition, history, and philosophy. Students who repeat this course will improve skills through further instruction and practice. Students are required to provide their own Judo/Jiujitsu qi uniform.

■ KINI 31B — Jiujitsu - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate Brazilian Jiujitsu. Progressions in positions, breakfalls, training techniques, strategy, finishing holds, competition and philosophy. Students who repeat this course will improve their skills through further instruction and practice. Students are required to provide their own Judo/Jiujitsu qi uniform.

■ KINI 33 — Kickboxing

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Presents the martial sport of kickboxing. Includes techniques for offense and defense, cardiovascular endurance, strategy and training modes. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 34 — Women's Self Defense

.5 to 1 Unit Degree Applicable, CSU, UC

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(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Techniques for personal protection and safety with emphasis on defensive tactics for women. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 35 — Karate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of traditional karate. Includes form, technique, history and philosophy. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 37A — Tai Chi Chuan - Beginning .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of tai chi chuan as a martial art exercise for health and fitness, meditation, relaxation and self defense. Basic therapeutic exercises in the tai chi chuan format will be presented. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 37B — Tai Chi Chuan - Intermediate .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate tai chi chuan fundamentals and principles. Includes instruction in a traditional long form. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 37C — Tai Chi Chuan - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Instruction and practice for the experienced Tai Chi Chuan practitioner. Emphasis will be on the sword form. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 40A — Tennis - 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

Beginning tennis fundamentals and techniques. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 40B — Tennis - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Intermediate tennis techniques and strategies for the individual who has previous experience and instruction in tennis. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 40C — Tennis - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Advanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 44 — Track and Field

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Basic instruction, conditioning and training for the various track and field events. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 48 — Wrestling

.5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Wrestling skills, fundamentals and match competition. Students who repeat this course will improve skills through further instruction and practice.

■ KINI 50A — Yoga

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Yoga instruction with emphasis on yoga postures, breathing techniques, relaxation strategies and philosophy. Students who repeat this course will improve their skills through further instruction and practice

■ KINI 51 — Iyengar Yoga

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of Iyengar yoga. Basic postures, alignments, strategy, history and philosophy. Students who repeat this course will improve their skills through further instruction and practice.

■ KINI 52 — Individual Sports

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Individual sports technique enhancement. Includes cardiorespiratory, flexibility, muscle strength and endurance training modes. Students who repeat this course will improve skills through further instruction and practice.

KINESIOLOGY: TEAM SPORT

■ KINS 2 — Basketball

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic skills, fundamentals, rules and strategies for team play in basketball. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 10 — Soccer

.5 to 1 Unit
Degree Applicable, CSU, UC

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(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Soccer skills including dribbling, passing, collecting, shooting, goalkeeping, and game play. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 12 — Baseball

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic skills, rules and strategies for team play in baseball. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 13 — Football

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic skills, rules and strategies for team play in football. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 16 — Softball

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic skills, rules and strategies for team play in the sport of slowpitch softball. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 18 — Indoor Soccer

.5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Indoor soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 19 — Team Sports

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Instruction in the skills, techniques, and strategies of game play in one or more team sports. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 24A — Volleyball - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Techniques and strategies of volleyball including passing, setting, hitting, and serving. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 24B — Volleyball - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Designed for individuals with previous experience in techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice.

■ KINS 24C — Volleyball - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

36 to 54 hours activity

Designed for individuals with previous experience in advanced techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice.

KINESIOLOGY: THEORY

■ KIN 3 — First Aid and CPR

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Provides training, including laboratory experience in caring for victims of injuries, sudden illness and other medical emergencies; includes Community CPR. Students who successfully pass all requirements, will earn the appropriate American Red Cross First Aid Certificate and/or CPR Certificate.

■ KIN 5 — Advanced First Aid/CPR/Emergency Response 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68

Provides training and certifications, including laboratory experience for developing the First Aid and CPR skills required by public safety personnel, athletic trainers, emergency response team members, flight attendants, coaches and nurses. Students who successfully pass all requirements will receive an American Red Cross Certificate in Emergency Response and/or CPR for the Professional Rescuer.

■ KIN 10 — Fundamentals of Sports

2 Units

Degree Applicable, CSU, UC

36 hours lecture

Instruction in the theory and technique of selected sports: basketball, baseball, cross country, football, golf, soccer, softball, swimming, tennis, track and field, volleyball, water polo and/or wrestling.

■ KIN 13 — Sports Officiating

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Introduction to rules, regulations and career opportunities of various team and individual sports.

■ KIN 15 — Administration of Fitness Programs

2 Units

Degree Applicable, CSU

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

Provides leadership training and administrative skills related to fitness specialists, personal trainers and physical educators. Students will explore curriculum topics and practical skills related to careers in fitness and physical education.

■ KIN 17 — Introduction to Physical Education 3 Units

Degree Applicable, CSU, UC

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

Introduction and orientation to physical education as a profession and academic discipline. Explores sub-disciplines, opportunities in the field, philosophy, scientific basis and analysis.

■ KIN 19 — Introduction to Care/Prevention of Activity/Sports -Related Injuries

Degree Applicable, CSU, UC

54 hours lecture

Instruction, including laboratory experience, in the techniques and procedures for prevention and treatment of activity and sports-related injuries. Includes the responsibilities of the athletic trainer, policies and procedures of the athletic training room and the operation of rehabilitative modalities.

■ KIN 24 — Kinesiology

2 Units

3 Units

Degree Applicable, CSU

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

36 hours lecture

The study of movement as it relates to exercise and the interrelationships of body segments involved in human movement activity, actions of joints, nerves and muscle exercise.

■ KIN 33 — Fitness Assessment and Healthy Lifestyles .5 Unit Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 9 hours lecture

An integrated approach to healthy lifestyles. Includes pre and post fitness assessments, basic nutrition analysis, lifestyle behaviors and stress management. Interpretation of results includes goal-setting principles and development of basic exercise program.

■ KIN 34 — Fitness for Living

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Survey and analysis of the components of fitness and wellness. Effects of fitness on optimal health, well-being, concepts of human movement, fitness program design, stress management, nutrition and weight maintenance.

■ KIN 38 — Physiology of Exercise for Fitness

3 Units

Degree Applicable

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

Theory of basic physiological concepts as they pertain to exercise training and the prescription of individual fitness programs.

■ KIN 39 — Techniques of Fitness Testing 2 Units

Degree Applicable, CSU

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

Theory and technique of fitness testing, assessment, evaluation, exercise program design. Includes related laboratory experience and practical applications.

■ KIN 40 — Techniques of Teaching Cardiovascular Exercise

2 Units

Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

Overview of the principles and techniques of teaching cardiovascular exercise. Includes both theory and practical instruction of cardiovascular exercise, special needs considerations, professional responsibilities and liabilities, group exercise design, treadmill, cycling and varieties of cardiovascular exercise.

■ KIN 41 — Techniques of Teaching Weight Training 2 Units

Degree Applicable, CSU

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

Overview of the principles and techniques of teaching weight training. Includes muscle structure and function, training sequences, free weight and machine equipment, safety factors, including contraindications for exercise.

■ KIN 44 — Theory of Coaching

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Designed for coaches at varying levels from youth league to high school varsity. Focuses on coaching issues and problems facing the coach today and includes the philosophy, theory, and principles of developing and maintaining an athletic program.

■ KIN 48 — Lifequard Training

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: Ability to swim 500 yards without stopping

American Red Cross requirements for Lifeguard Training. To receive certification, students must pass written exams with a minimum of 80% and pass all practical skills tests. Students who meet all qualifications will be certified by the American Red Cross in Lifeguard Training, First Aid, and CPR for the Professional Rescuer.

■ KIN 50 — Mt. Sac Fire Academy Physical Ability Entrance Exam

1 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

9 hours lecture

9 hours activity

Physical ability examination specifically designed for candidates seeking admission into the Mt. SAC Fire Academy. Candidates must be approved by the Fire Technology Office prior to registration.

■ KIN 81 — Work Experience for Coaching

2 Units

Degree Applicable

(May be taken four times for credit)

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

150 hours lab

Provides coaches and physical education students with onthe-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.

■ KIN 85 — Fitness Specialist Internship

1 Unit Degree Applicable

(May be taken four times for credit)

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

Provides fitness specialist students with actual on-the-job skill development in fitness testing, analysis and prescription. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Fitness Certificate faculty advisor. Students who repeat this course will improve skills through further instruction and practice.

■ KIN 92 — Work Experience - Athletic Training 2 Units

Degree Applicable

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

160 hours lab

Provides Athletic Trainer Aides and physical education students with actual on-the-job experience in an approved worksite related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Athletic Trainer faculty and staff. Students who repeat this course will improve skills through further instruction and practice.

LATIN

■ LATN 1 — Elementary Latin

4 Units

Degree Applicable, CSU, UC

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

Advisory: Eliaibility for READ 90 or eliaibility for AMLA 33R

This course is designed for students with little or no prior experience in Latin. Emphasizes the ability to read basic Latin as it was written during the early, classical, and post-classical periods. Includes the study of vocabulary, grammar, Roman culture, and the history of the Latin language.

■ LATN 2 — Continuing Elementary Latin 4 Units

Degree Applicable, CSU, UC

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

12 Hours lecture

Prerequisite: LATN 1

Advisory: Eligibility for READ 90 or eligibility for AMLA 33R Second semester of coursework for students with prior coursework in Latin. Daily practice in vocabulary, grammar, and reading. Explores Roman history and culture.

LEADERSHIP

■ LEAD 55 — Exploring Leadership

3 Units (
Degree Applicable, CSU | 5

54 hours lecture

Designed to introduce students to the fundamental elements of leadership. Explores leadership theories and models, values and beliefs. Develops a personal philosophy of leadership that includes an understanding of self, others and community. Prepares students for leadership roles in college and community settings.

LEARNING ASSISTANCE

■ LERN 48 — Basic Math Skills Review

3 Units Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Math fundamentals: adding, subtracting, multiplying and dividing whole numbers and fractions. Emphasis on math learning strategies such as organization and managing math anxiety.

■ LERN 49 — Math Skills Review

3 Units Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Prerequisite: LERN 48 or passing score on current placement test Improves knowledge of basic math. Includes operations and applied problems in whole numbers, fractions, decimals, proportions, percentages, and integers. Covers math study strategies such as learning styles and self-assessment.

■ LERN 61 — Skills Development Laboratory 1 Unit Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lab

Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking).

■ LERN 62 — Skills Development Laboratory 2 Units Not Degree Applicable

(May be taken for Pass/No Pass only)

108 hours lab

Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking).

■ LERN 81 — Improving Writing

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Assist students who wish to improve prewriting, writing, editing, and revising skills. Provide instruction in content and structure of sentences, paragraphs, and essays; emphasize development in writing through the integration of grammar and critical thinking.

LEARNING COMMUNITIES

■ LCOM 80 — Learning Communities: Individual Connections 1 Unit

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.

■ LCOM 90 — Learning Communities: Campus Connections 1 Unit Degree Applicable

18 hours lecture

Analyzes connections between the individual and the campus. Focuses on the benefits of campus involvement in order to create student identity. Identifies connections between themes and topics of courses within a learning community. Explores problembased learning. Concurrent enrollment in a learning community is required. Field trips may be required.

■ LCOM 100 — Learning Communities: Interdisciplinary Connections

Degree Applicable

1 Unit

18 hours lecture

Interprets the connections between real world problems, course content, and learning community themes. Synthesizes interdisciplinary connections utilizing problem-based learning within a learning community. Evaluates successful team selection based on specific criteria including leadership skills and interpersonal relationships to establish collective efficacy. Concurrent enrollment in a learning community is required. Field trips may be required.

LIBRARY AND INSTRUCTIONAL MEDIA

■ LIBR 1 — Information Resources and Research Methods 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eliaibility for ENGL 68

Research methods for academic research and critical thinking that support information competency. Includes finding, evaluating, and documenting information using traditional and electronic resources.

■ LIBR 1A — Introduction to Library Research

Degree Applicable, CSU, UC

1 Unit

18 hours lecture

Advisory: Eligibility for ENGL 68

Research strategies for academic research and critical thinking. Topics include search strategies, citation of sources, and use and evaluation of library resources.

MANUFACTURING TECHNOLOGY

■ MFG 10 — Mathematics and Blueprint Reading 3 Units for Manufacturing

Degree Applicable

54 hours lecture

Applications of mathematical principles, including fractions, decimals, ratio/proportion, geometry and trigonometry to manufacturing problems and their solutions. Reading and interpreting part drawings, assembly drawings and sketches used in the manufacturing industry.

■ MFG 11 — Manufacturing Processes I

2 Units

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

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

Advisory: MFG 11

Machine tool manufacturing process theory and practice in milling operations, tooling set up, indexing, metallurgy, heat treatment, precision grinding, and basic tool design with study and application of manufacturing process to computerized equipment.

■ MFG 38 — MasterCAM I

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

Use MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes.

■ MFG 38B — MasterCAM II

2 Units

Degree Applicable, CSU

18 hours lecture 54 hours lab

Advisorv: MFG 38

Use MasterCAM software to create three-dimensional wireframe and solid part geometry.

■ 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.

MATHEMATICS

■ MATH 50 — Pre-Algebra

3 Units

Not Degree Applicable

54 hours lecture

Prerequisite: LERN 49 or qualifying score on current department placement test

Fundamental principles of mathematics designed to ease the transition from arithmetic to algebra. Concepts, computational skills, thinking skills and problem-solving skills are balanced to build proficiency and mastery.

■ MATH 51 — Elementary Algebra

4 Units

Not Degree Applicable

72 hours lecture

Prerequisite: MATH 50 or qualifying score on current department placement test

Basic algebra, equivalent to first year high school algebra. Includes operations with signed numbers and algebraic expressions, linear equations and inequalities, polynomial operations and factoring, rational expressions and equations, Cartesian Coordinate System, slope/graphing/ equations of lines, systems of linear equations, ratio/proportion, formulas and variation, applications, radicals and exponents, quadratic equations.

■ MATH 51A — Elementary Algebra - First Half 3 Units

Not Degree Applicable

54 hours lecture

Prerequisite: MATH 50 or qualifying score on current department placement test

Contains the first half of elementary algebra. Operations with signed numbers and algebraic expressions; linear equations and inequalities; polynomial operations and factoring; rational expressions and equations; ratios, proportions, formulas, and variation; applications.

■ MATH 51B — Elementary Algebra - Second Half 3 Units Not Degree Applicable

54 hours lecture

Prerequisite: MATH 51A

Contains the second half of Elementary Algebra. Includes: Cartesian Coordinate System, slope/graphing/equations of lines, solving systems of linear equations, algebraic operations with radicals, solving equations with radicals, solving second degree equations using methods of completing the square and the quadratic formula. Students must complete both MATH 51A and MATH 51B to have taken the equivalent of Elementary Algebra (MATH 51).

■ MATH 55 — Statway I

5 Units

Not Degree Applicable

90 hours lecture

Prerequisite: MATH 50 or qualifying score on current department placement test.

The Statway path is a two-semester sequence recommended for majors that require no mathematics beyond freshman-level statistics. Math 55 is the first semester of two in the Statway sequence. Math 55 includes topics from descriptive statistics (experimental design and descriptive statistics), and beginning algebra (linear and quadratic algebraic phenomena), and is a prerequisite for Math 115, the second course in the Statway sequence. Both courses in the sequence, Math 55 and 115, must be taken to receive credit for college level statistics.

■ MATH 61 — Plane Geometry

3 Units

Degree Applicable

54 hours lecture

Prerequisite: MATH 51 or MATH 51B or MATH 52 or qualifying score on current department placement test

Points, lines, polygons and circles; their relationships to each other on plane surfaces; congruence, similarity and area. Introduction to inductive, deductive and indirect reasoning. The formal proof is introduced and practiced throughout the course. Stress is placed on accuracy of statement as a background for analytical and scientific reasoning.

■ MATH 71 — Intermediate Algebra

5 Units

Degree Applicable

90 hours lecture

Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test

Polynomial, rational, radical, exponential and logarithmic expressions are simplified, equations solved and functions graphed and studied; linear and nonlinear systems of equations and inequalities; conic sections; sequence, series and the binomial theorem.

■ MATH 71A — Intermediate Algebra - First Half 3 Units Degree Applicable

54 hours lecture

Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test

Algebra of functions, polynomials, and rational expressions; functions and their graphs; systems of equations with two or three variables; absolute value and compound inequalities. Covers approzimately 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.

■ MATH 71B — Intermediate Algebra - Second Half 3 Units Degree Applicable

54 hours lecture

Prerequisite: MATH 71A

Quadratic equations and graphs; exponents, radicals and logarithms; conic sections. Covers remaining MATH 71 topics at a slower pace. A student must complete both MATH 71A AND MATH 71B to have taken the equivalent of MATH 71A, Intermediate Algebra.

■ MATH 71X — Practical Intermediate Algebra 5 Units

Degree Applicable

90 hours lecture

Prerequisite: Math 51 or Math 51B or Math 55 or qualifying score on current department placement test.

Intermediate Algebra for the non-calculus path. Recommended for Humanities, Social Sciences, and Applied Sciences. Recommended prerequisite for Math 100, Math 110, and Math 120. Polynomial, rational, radical, exponential and logarithmic expressions are simplified, equations solved, and real-world phenomena are modeled using least-squares methods, functions graphed and analyzed; linear and nonlinear systems of equations and inequalities; sequences, series, and probabilities; data gathering instruments are used to sample data for curve fitting.

■ MATH 96 — Strategies for Math Success 1 Unit

Not Degree Applicable Proregu

(May be taken for Pass/No Pass only)

18 hours lecture

Learning tools, plans and proper perspectives for math learning improvement. Use of natural intelligence strengths to simplify and optimize your mathematical educational experience. Overcome test anxiety and enhance testing abilities. Course is appropriate for all levels of mathematics students.

MATH 99 — Special Projects in Mathematics 2 Units Degree Applicable, CSU

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(May be taken four times for credit)

36 hours lecture

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students who repeat this course will improve skills through further instruction and practice.

■ MATH 100 — Survey of College Mathematics 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test) and (MATH 61 or passing score on current geometry competency test)

Introduction to mathematical methods and reasoning. Topics include: set theory, logic, counting methods, probability and statistics, with additional topics selected from numeration and mathematical systems, number theory, geometry, graph theory and mathematical modeling.

■ MATH 110 — Elementary Statistics 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test

Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance.

■ MATH 110H — Elementary Statistics - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying passing score on current department placement test) and acceptance into the Honors Program

Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance. An honors course designed to provide an enriched experience. Students may not receive credit for both MATH 110 and MATH 110H.

■ MATH 115 — Statway II

5 Units

Degree Applicable, CSU

90 hours lecture

Prerequisite: MATH 55

The Statway path is a two-semester sequence recommended for majors that require no mathematics beyond freshman-level statistics. Math 115 is the second semester of the Statway sequence. Math 115 includes topics from intermediate algebra (radical, exponential, and logarithmic algebraic phenomena) and inferential statistics.

■ MATH 120 — Finite Mathematics

3 Units
Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test.

Mathematics for business, social science and biological science majors. Topics include linear programming, matrix theory, probability, statistics, stochastic processes, Markov chains, and math of finance.

■ MATH 130 — College Algebra

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 71 or MATH 71B or qualifying score on current department placement test

A college-level course in algebra. A study of real numbers and sets, algebraic functions and relations, radicals and exponents, linear and quadratic equalities and inequalities, exponential and logarithmic functions, systems of linear and quadratic equations, complex numbers, series, theory of equations, mathematical induction and binomial formula.

■ MATH 140 — Calculus for Business

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 130 or MATH 160 or qualifying score on current department placement test.

Calculus for business, social science, and non-science majors. Algebraic, logarithmic, and exponential functions; limits; differentiation with applications; various techniques of integration with applications; differential equations; multi variable calculus. Credit not given to persons with credit in MATH 180 or equivalent.

■ MATH 150 — Trigonometry

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: MATH 71 or 71B or qualifying score on current department placement test AND Math 61 or passing score on current geometry competency test.

Trigonometry functions and inverse trigonometric functions and the graphical representations of these functions; solutions to right and oblique triangles with laws of sines and cosines; vectors; solutions to trigonometric equations; identities; polar coordinates; complex numbers and DeMoivre's Theorem.

■ MATH 160 — Precalculus Mathematics

Degree Applicable, CSU, UC

4 Units

72 hours lecture

Prerequisite: MATH 150, or qualifying score on current department placement test.

Prepares students for the calculus sequence. Real-valued functions, including algebraic, trigonometric, exponential, and logarithmic functions. Also includes proofs, inequalities, introductory analytical geometry, series, sequences, and vectors.

■ MATH 180 — Calculus and Analytic Geometry 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 160 or qualifying score on current department placement test

Functions, curve sketching, limits, the derivative, rules for differentiation of algebraic and trigonometric functions, applications of the derivative. Indefinite and definite integrals, numerical integration, and calculus with exponential, logarithmic, and other transcendental functions.

■ MATH 181 — Calculus and Analytic Geometry 5 Units

Degree Applicable, CSU, UC

90 hours lecture

Prerequisite: MATH 180

Differential integral calculus with infinite series and applications. Includes applications of integration, techniques of integration, numerical integration, indeterminate forms and improper integrals, differential equations, conic sections, and polar coordinates.

■ MATH 210 — Concepts of Elementary Mathematics 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: MATH 100

Structure and theory of the mathematics that constitute the core of K-8 mathematics curriculum. Concepts include the essential elements of a number system; fundamental understanding of operations upon whole numbers, rational numbers and integers; higher-order critical thinking skills and strategies in the area of problem solving.

■ MATH 245 — A Transition to Advanced Mathematics 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MATH 181

A transition to the rigors of upper-division mathematics courses. Basic set theory and logic, relations, functions, mathematical induction, the well-ordering principle, countable and uncountable sets, the Schroder-Bernstein Theorem, the axiom of choice, Zorn's Lemma, the Heine-Borel Theorem, the Bolzano-Weierstrass Theorem. Special emphasis on how to present and understand mathematical proofs.

■ MATH 280 — Calculus and Analytic Geometry 5 Units Degree Applicable, CSU, UC

90 hours lecture

Prerequisite: MATH 181

Multivariate and vector calculus, which includes vectors in two and three space and surfaces in space. Analysis of vector-valued functions. Partial derivatives, differentials, the chain rule, directional derivatives and the gradient. Extrema of functions of several variables with applications. Multiple integrals in various coordinate systems with applications. Vector fields, line integrals, independence of path. Green's Theorem, surface integrals, flux, divergence and curl. Stokes' Theorem and the Divergence Theorem.

■ MATH 285 — Linear Algebra and Differential Equations 5 Units Degree Applicable, CSU, UC

90 hours lecture

Prerequisite: MATH 280

First order ordinary differential equations, including separable, linear, homogeneous of degree zero, Bernoulli and exact with applications and numerical methods. Solutions to higher order differential equations using undetermined coefficients, variation of parameters, and power series, with applications. Solutions to linear and non-linear systems of differential equations, including numerical solutions. Matrix algebra, solutions of linear systems of equations, and determinants. Vector spaces, linear independence, basis and dimension, subspace and inner product space, including the Gram-Schmidt procedure. Linear transformations, kernel and range, eigenvalues, eigenvectors, diagonalization and symmetric matrices.

MEDICAL TERMINOLOGY

■ MEDI 90 — Medical Terminology

3 Units

Degree Applicable, CSU

54 hours lecture

Introduction to the use and meaning of the medical terminology used in various allied health fields. Relates to other allied health fields and can apply to secretarial science majors.

MENTAL HEALTH/PSYCHIATRIC TECHNICIAN

■ MENT 40 — Introduction to Interviewing and Counseling 3 Units Degree Applicable

54 hours lecture

Theory and practice in interviewing skills. Stresses application of counseling theories, helping skills, and consultation theories to allow exploration of self as a helper and learn facilitating skills to bring about change. Emphasis on establishing rapport, obtaining information and developing a supportive relationship in a variety of mental health settings. Students may not receive credit for both MENT 40 and PSYC 40.

■ MENT 56 — Medical-Surgical Nursing for Psychiatric Technicians

9 Units

Degree Applicable

162 hours lecture

Prerequisite: Admission to the Psychiatric Technician Program

Corequisite: MENT 56L

Holistic approach to assessment and intervention in the care of the medical-surgical patient. Examines physiological modes of rest and exercise, regulation, circulation, ventilation and the sensory system; medical-surgical nursing; care of the dying patient, cardiovascular problems; calculations of drug dosage and administration of oral and topical medications; study of anatomy and physiology of the human body.

■ MENT 56L — Medical-Surgical Clinical Experience 4 Units Degree Applicable

(May be taken for Pass/No Pass only)

216 hours lab

Corequisite: MENT 56

Development of medical-surgical nursing skills. Application and assessment, intervention, evaluation of nursing treatment in the physiological modes of rest and exercise, regulation, nutrition, elimination, application of emergency procedures, circulation, ventilation, fluids, and electrolytes. Psychosocial aspects of care including interdependence, role function, self concept, care of aged, and cultural aspects. Application of nursing skills for those with medical-surgical problems and special needs. Calculation and administration of medications. Roy's Adaptation Model serves as the conceptual framework.

■ MENT 58D — Advanced Medical-Surgical Nursing 4 Units and Pharmacology for Psychiatric Technicians

Degree Applicable

72 hours lecture

Prerequisite: MENT 56, MENT 56L

Coreauisite: MENT 58L

Examines disease processes affecting body systems, etiology, required nursing care; study of drugs, standards, administration; dose calculations.

■ MENT 58L — Advanced Medical-Surgical Nursing 1.5 Units for Psychiatric Technicians Clinical

Degree Applicable

(May be taken for Pass/No Pass only)

90 hours lab

Prerequisite: MENT 56 and MENT 56L

Coreauisite: MENT 58D

Application of nursing skills to patients with medical and surgical disorders. Administration of medications.

■ MENT 70 — Introduction to Psychiatric Technology 1.5 Units Degree Applicable

27 hours lecture

Prerequisite: Admission to Psychiatric Technician Program Corequisite: MENT 70L

Role and function of the Psychiatric Technician. Includes mental health theories of personality development, self-concept, role function, and interdependence. Also includes developmental disabilities theories of sensorimotor techniques and behavior modification techniques.

■ MENT 70L — Introduction to Psychiatric 2 Units Technology Clinical Technicians

Degree Applicable

(May be taken for Pass/No Pass only)

108 hours lab

Corequisite: MENT 70

The clinical experience introduces the student to facilities within the community which serve the mental health field including both the mentally disordered and developmentally disabled.

■ MENT 72 — Nursing Care of the Developmentally 7 Units Disabled Person

Degree Applicable

126 hours lecture

Prerequisite: MENT 56, MENT 56L, MENT 70, MENT 70L

Corequisite: MENT 72L

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.

■ MENT 72L — Nursing Care of the Developmentally 5.5 Units Disabled Person - Clinical

Degree Applicable

(May be taken for Pass/No Pass only)

287 hours lab

Corequisite: MENT 72

Application of skills needed to teach, train, and provide care for the developmentally disabled person. Calculation and administration of medication.

■ MENT 73L — Psychiatric Nursing for 5.5 Units Psychiatric Technicians Clinical

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.

■ MENT 73T — Psychiatric Nursing for Psychiatric Technicians

Degree Applicable

6 Units

108 hours lecture

Prerequisite: MENT 56 and MENT 56L Corequisite: MENT 73 and PSYC 1A

Advisory: MENT 40

Theoretical instruction in the assessment and treatment of the mentally disabled, use of common medication, therapeutic communication, assertive language and leadership skills appropriate for the practicing Psychiatric Technician.

■ MENT 82 — Work Experience in Mental Health 2 Units Technology

Degree Applicable

(May be taken for Pass/No Pass only)

150 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog, MENT 72, and MENT 73T

Provides students with on-the-job experience in the field of mental health, nursing skills and/or developmental disability, related to classroom instruction, at an approved work site. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further experience.

METEOROLOGY

■ METO 3 — Weather and the Atmospheric Environment 3 Units Degree Applicable, CSU, UC

54 hours lecture

An introduction to the atmosphere. Processes that influence weather and climate: seasonality, structure of the atmosphere, atmospheric stability, severe weather (hurricanes, tornadoes, thunderstorms,) climate change, and the causes and effects of air pollution. Students will use a variety of weather instruments, and the course may include either field work or field trips.

■ METO 3L — Weather and Atmospheric 1 Unit Environment Laboratory

Degree Applicable, CSU, UC

54 hours lab

Corequisite: METO 3 (may have been taken previously)
Laboratory topics paralleling the course content of METO 3.

MICROBIOLOGY

■ MICR 1 — Principles of Microbiology 5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 10 or CHEM 40. One year of college chemistry is recommended for all transfer majors. CHEM 50/51 sequence is preferred for biology and most pre-health professional majors. Fundamental concepts of microbiology with emphasis on bacteria. Survey of microbial classification, morphology, physiology and genetics; beneficial and pathological aspects; growth and control of microbes; virology, immunology, and host-microbe interactions. Important infectious diseases of humans are surveyed. Laboratory exercises examine microbial morphology, physiology and genetics, as well as environmental influences of microorganisms. Laboratory techniques include culturing, examining, and identifying microorganisms. Field trips are required.

■ MICR 22 — Microbiology

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: CHEM 10 or CHEM 40

Advisory: BIOL 1, BIOL 4 or BIOL 4H

Fundamental concepts of microbiology including viruses, bacteria, fungi, protozoa and parasitic worms.

MUSIC

■ MUS 2 — Music Theory

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Corequisite: MUS 5A

Preparation for the study of harmony and form as it is practiced in Western tonal music. Topics include scales, intervals, chords, cadences, counterpoint and Roman numeral analysis. Ability to read music notation is advised. Required for music majors.

■ MUS 3A — Harmony

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MUS 2, MUS 5A

Corequisite: MUS 5B

An examination of the harmonic style of Western tonal music from the common practice period. Topics include elementary chord syntax, the principles of voice leading, simple figured bass realization, soprano harmonization, basic non-chord tones, seventh chords, basic modulation techniques, period forms and binaries. Students will compose original music in the harmonic and melodic style of Classical models.

■ MUS 3B — Harmony

3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MUS 3A, MUS 5B

Corequisite: MUS 6A

Further examination of the harmonic style of Western tonal music from the common practice period, with emphasis on the contrapuntal music of the Baroque Era. Topics include secondary function chords, advanced non-chord tones, advanced figured bass realization, harmonic sequences, modified species, 18th century counterpoint and imitative contrapuntal forms. Students will write analysis papers and compose original music in the harmonic and melodic style of Baroque models.

■ MUS 3C — Harmony

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MUS 3B, MUS 6A

Corequisite: MUS 6B

Further examination of the harmonic style of Western tonal music from the common practice period, with emphasis on 18th and 19th century repertoire. Topics include modal mixture, chromatic harmony, extended tonicization, advanced modulation techniques, lieder, rondo and sonata form. Students will write analysis papers and compose original music in the harmonic and melodic style of Romantic models.

■ MUS 5A — Musicianship - Ear Training and 1.5 Units Sight Singing

Degree Applicable, CSU, UC

18 hours lecture 18 hours lab

Corequisite: MUS 2

Training in diatonic sight singing, rhythm reading, aural recognition and the dictation of rhythm and diatonic melody. Ability to read music and match pitch is advised. Required for music majors.

■ MUS 5B — Musicianship - Ear Training and 1 Un Sight Singing

Degree Applicable, CSU, UC

18 hours lecture

Prerequisite: MUS 2, MUS 5A

Corequisite: MUS 3A

Provides further training in sight singing, aural perception and dictation, including soprano-bass dictation of diatonic Bach-style chorales. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion.

■ MUS 6A — Musicianship - Advanced 2 Units

Degree Applicable, CSU, UC

36 hours lecture

18 hours lab

Prerequisite: MUS 3A

Coreauisite: MUS 3B

Advanced training in sight singing, aural perception and dictation, including soprano-bass dictation of modulating Bach-style chorales and imitative counterpoint. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion.

■ MUS 6B — Musicianship - Advanced

ed 2 Units Degree Applicable, CSU, UC

36 hours lecture

18 hours lab

Prerequisite: MUS 3B, MUS 6A

Corequisite: MUS 3C

Provides further training in sight singing, aural perception and dictation, including soprano-bass dictation of chromatic chord progressions and aural reduction of decorated instrumental textures. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion.

■ MUS 7 — Fundamentals of Music

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Music notation and the elements of music for non-music majors. Topics include pitch, rhythm, key, intervals and chords.

■ MUS 9 — Introduction to Music Technology 3 Units Degree Applicable, CSU

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

36 hours lecture

36 hours lab

Advisory: Eligibility for ENGL 68

A survey of the uses of computers and electronic devices to capture, create, modify and disseminate music. Provides an introduction to the principles of musical acoustics, sound recording, and digital audio. Computer software for MIDI sequencing, sound synthesis, digital sampling, editing, music notation and composition will be demonstrated and practiced in class. Assignments will include the creation of original music.

■ MUS 10A — Keyboard Skills

1 Unit

Degree Applicable, CSU

54 hours lab

Advisory: Ability to read music notation

Keyboard (piano) skills required for music majors with an emphasis on practical skills applicable to professional positions in music education. Exercises include harmonization of melodies, transposition, sight-reading, and theory as applied to the keyboard. Emphasizes proficiency with scales, broken triads and seventh chords of major and minor keys, using hands separately and together, up to two octaves.

■ MUS 10B — Keyboard Skills

1 Unit

Degree Applicable, CSU

54 hours lab

Prerequisite: MUS 10A or admission by audition

Keyboard (piano) skills, required for music majors, including harmonization of melodies, transposition, sight-reading, and theory. Emphasizes proficiency with scales as well as arpeggios of triads and seventh chord of both major and minor keys up to two octaves; harmonization of melodies with tonic, subdominant, and dominant triads and seventh chords; transposition of simple melodies by a minor and major second, higher and lower; and realization of diatonic figured bass with first and second inversions.

■ MUS 11A — Music Literature Survey

Degree Applicable, CSU, UC

54 hours lecture

A survey of western music from the Medieval period through the 18th century including examples of music from several non-western cultures. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one live concert is required.

■ MUS 11B — Music Literature Survey

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

A survey of western music from the 18th to the early 21st century including examples from several non-western cultures that have influenced music of those style periods. Lectures are augmented by recordings and other support media pertinent to the cultures/period being studied. Attending at least one live concert is required.

■ MUS 12 — History of Jazz

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Advisory: Eligibility for ENGL 68

A survey of jazz as a significant American art form from its roots in African and Creole music to the present. Major styles, leading performers, significant compositions and recordings, and the social, economic, and cultural contexts of the music will be stressed.

■ MUS 13 — Introduction to Music Appreciation 3 Units Degree Applicable, CSU, UC

54 hours lecture

An introductory study of music from a variety of cultures including a survey of western music from the Medieval period through the 21st century. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one live concert is required.

■ MUS 13H — Introduction to Music Appreciation - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

An introductory study of music from a variety of cultures including a survey of western music from the Medieval period through the 21st century. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one live concert is required. An honors course designed to provide an enriched experience. Students may not receive credit for both MUS 13 and MUS 13H.

■ MUS 14A — World Music

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Examines the dominant musical cultures of the world within Africa, the Americas, and Asia and compares these to Western popular music. Identifies vocal and instrumental genres within selected cultures and examines the harmonic, melodic, and rhythmic characteristics of each style. Lectures, films, recordings, and media presentations will assist the student in exploring the ways in which music is used around the world for aesthetic, social, and spiritual purposes.

■ MUS 14B — American Folk Music

Degree Applicable, CSU, UC

54 hours lecture

The study of American folk music by both region and period. Instruction will include lecture, reading, and listening assignments, and various audio-visual materials. No previous musical experience required.

■ MUS 15 — Rock Music History and Appreciation 3 Units Degree Applicable, CSU, UC

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

Historical survey of rock music from its beginnings in the early 50's to the present. Rhythm and Blues, Rockabilly, the British Invasion, Motown, Soul, Folk Rock, Hard Rock, Punk, Heavy Metal, and various Alternative Rock styles will discussed. Personalities and musical styles will be related to the sociology of the time period being studied.

■ MUS 16 — Individual Instruction

.5 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

Prerequisite: Admission by audition

Applied music for students also enrolled in a major performing group. Instruction includes a private one-half hour lesson per week. Individual problems of performance techniques, interpretation, and repertoire are included. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 17A — Elementary Piano

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

32 hours lab

Reading and performance of piano literature with emphasis on scales, chord progressions, and sight reading. Students who repeat this course will improve skills through further instruction and practice. No prior musical experience is required.

■ MUS 17B — Intermediate Piano

1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Advisory: MUS 17A

Reading and performances of piano literature with emphasis on major and minor scales in multiple octaves utilizing multiple textures. Includes use of damper pedal.

■ MUS 18 — Advanced Piano

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Advisory: MUS 17B

Style, technique and interpretation of piano music from the 17th century to the present is studied collectively and individually. Sight reading, improvisation and ensemble playing will be emphasized. Students who repeat this course will improve skills through further instruction and practice. Recommended for music majors.

■ MUS 20A — Elementary Voice

1 Unit
Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Group singing instruction with an emphasis on breathing and posture and their importance in the singing of the musical line, performance techniques, and vocal quality. English and American songs are studied and performed. Open to non-music majors and recommended for all music majors. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 20B — Intermediate Voice

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Advisory: MUS 20A

Group and individual instruction concentrating on individual vocal development and emphasizing singing techniques required for singing popular, theatrical, and classical music. Includes singing in foreign languages. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 21 — Advanced Voice

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Advisory: MUS 20B

Group and individual study of the style, techniques, and interpretation of art songs and songs from operas and musicals. Emphasis will be placed on diction and pronunciation Italian, German, and French. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 22 — Conducting

1.5 Units

Degree Applicable, CSU

18 hours lecture

18 hours lab

Beat patterns, score reading, and rehearsal techniques for conducting. Includes techniques needed for group direction and leadership.

■ MUS 23A — Elementary Guitar

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Acoustic guitar playing, note reading, strumming, finger picking and improvisation. Students must furnish their own guitars. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 23B — Intermediate Guitar

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Advisory: MUS 23A

Techniques for reading and playing music arranged for the solo guitar. Students must furnish their own acoustic guitar. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 24 — Advanced Guitar

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

48 hours lab

Advisory: MUS 23B

Style, technique, and interpretation of guitar music of the 18th and 19th centuries. Includes sight reading and ensemble playing. Students must furnish their own acoustic guitars.

■ MUS 25A — Jazz Improvisation

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

40 11001 5 100

Styles and techniques of jazz improvisation. Students must furnish their own musical instruments to play for and with the class.

■ MUS 25B — Jazz Improvisation

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

48 hours lab

Advisory: MUS 25A

Advanced techniques of jazz improvisation. Includes minor, dominant, and pentatonic scales along with arpeggiating polychords, altered chords, chord progressions, and 32-bar jazz standards. Students must furnish their instruments and be able to perform individually and with the class. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 27 — Chamber Winds

1.5 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

72 hours lab

Prerequisite: Admission by audition

Select ensemble of wind and percussion instrumentalists specializing in the performance of high quality chamber music from the medieval period to the present. The course may include brass quintets, woodwind quintets, saxophone quartets, and mixed instrumental ensembles of two through twenty performers. Students must have previous instrumental experience and pass an entrance audition. Public performances on campus and in the community are required. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 29 — Choral Workshop

1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

Choral music of all genres with an emphasis on strengthening choral skills, including sight singing, tone, blend, balance and good vocal technique. Covers choral tone of the Renaissance to correct use of the microphone when singing pop or vocal jazz. Students who repeat this course will improve skills through further instruction and practice. Open to all students without an audition.

■ MUS 30 — Collegiate Chorale

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 hours lab

and practice.

A non-auditioned mixed choral ensemble open to all students. A variety of mixed choral repertoire will be studied and performed, from music of the Renaissance to contemporary Pop, Broadway, and Vocal Jazz. Rehearsal time will also be devoted to vocal development and improving music theory skills. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 31 — Concert Choir

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours lab

Prerequisite: Admission by audition the first week of class
A large mixed choral ensemble in which students perform a
variety of major choral works. Classical songs are rehearsed in
class and performed for a public audience. Sight singing skills
and proper vocal technique are emphasized. Voice placement
auditions are held the first week of class. Attendance at all
performances including those off-site is required. Students who
repeat this course will improve skills through further instruction

■ MUS 34 — Women's Vocal Ensemble

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours lab

Prerequisite: Admission by audition during the first week of class Women's vocal ensemble that studies and performs selected classical works, folk songs, spirituals, and popular compositions. Attendance is required at all public performances including off-campus locations. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 36 — Concert and Community Band

1.5 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

72 hours lab

Advisory: Previous band experience

A non-auditioned wind and percussion ensemble open to all students with prior instrumental experience. A variety of wind band repertoire will be studied and performed, from music of the medieval period to contemporary compositions. Rehearsal time will also be devoted to instrumental and aural skills development. Opportunities to conduct, arrange and compose music, and perform as a soloist may be provided. Students who repeat this course will improve skills through further instruction and practice. Public performances on campus and in the community are required each semester.

■ MUS 38 — Ensemble

.5 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 hours lab

Prerequisite: Ability to read music or admission by audition

The study and performance of music written for small ensembles. On 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)
108 hours lab

Prerequisite: Admission by audition

Study and performance of jazz and popular music of all types. Provides the necessary training and experience for MUS 47, Jazz Band, or for the improvement of jazz skills and understanding. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 44 — Vocal Jazz Ensemble

3 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

162 hours lab

Prerequisite: Admission by audition

A vocal ensemble appropriate for beginning and intermediate jazz singers. This group will perform vocal jazz charts accompanied by a rhythm section, as well as a cappella. Basics of singing jazz, vocal improvisation, group singing techniques, and microphone techniques. Ensemble will perform locally and/or at vocal jazz festivals. Attendance at performances and competitions is required. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 45 — Chamber Singers

3 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

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

162 hours lab

Prerequisite: Admission by audition

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.

■ MUS 46 — Mt. SAC Singers

1.5 Units
Degree Applicable, CSU, UC

(May be taken four times for credit)

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

Prerequisite: Admission by audition

The "Mt. SAC Singers" is a select choral ensemble, specializing in choreographed popular and musical theater literature. Includes a wide variety of music performed publicly several times every semester. Emphasizes advanced musical skills, vocal technique, choreography and showmanship skills. Off campus performances may be required. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 47 — Jazz Ensemble

2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

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

Prerequisite: Admission by audition

Study and performance of jazz and big band music. Provides an opportunity to learn techniques applicable to the large jazz ensemble. Off-campus public performance required. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 48 — Men's Vocal Ensemble

2 Units Degree Applicable, CSU, UC

. Degree Applicable,

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours lab

Prerequisite: Admission by audition the first week of class
Men?s vocal ensemble that studies and performs selected classical works, folk songs, spirituals, and popular compositions.
Attendance is required at all public performances including off-campus locations. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 49 — Wind Ensemble

2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

108 hours lab

Prerequisite: Admission by audition

The premier classical wind and percussion ensemble at the College. Students must have previous musical training, a standard band instrument and pass an entrance audition. A variety of wind band repertoire will be studied and performed, from music of the medieval period to contemporary compositions. Public performances on campus and in the community are required and a concert tour may be included. Opportunities to conduct, arrange and compose music, and perform as a soloist may be provided to capable students. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 50 — Jazz Improvisation and Performance Choir 3 Units Degree Applicable, CSU

(May be taken four times for credit)

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

An advanced vocal jazz choir. This choir will perform advanced vocal jazz arrangements and students will study the historical, theoretical and technical aspects of both instrumental and vocal jazz. Advanced solo singing techniques and scat singing will be rehearsed and the choir will perform at least one concert each semester at Mt. SAC along with attending and performing at a variety of musical venues. This class will have the opportunity to work with guest artists and make CD recordings. Attendance is required at assigned public performances. Students who repeat this course will improve skills through further instruction and practice. Admission by audition.

■ MUS 99 — Special Projects in Music

1 to 3 Units Degree Applicable, CSU

(May be taken four times for credit)

54 to 162 hours lab

Offered to selected students in recognition of academic interests and abilities to give them the opportunity to explore these interests and abilities in greater depth. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's approval before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. Projects must be approved in advance.

NURSING

■ NURS 1A — The Nursing Process I

5 Units

Degree Applicable, CSU

45 hours lecture

135 hours lab

Prerequisite: Admission to Nursing Program; ANAT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or equivalent

Corequisite: NURS 2

Principles of nursing as related to a culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process. Including meaning of illness, promoting health patterns, hygiene, safety, asepsis, medication administration, elimination, communication. The Betty Neuman Model serves as the conceptual framework.

■ NURS 1B — The Nursing Process II

5 Units

Degree Applicable, CSU

45 hours lecture

135 hours lab

Prerequisite: NURS 1A or Advanced Placement

Coreauisite: NURS 2

Principles of nursing as related to culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process including wound care, legal/ethical aspects, comfort, fluid and electrolytes, spirituality, and nursing trends. The Betty Neuman Model serves as the conceptual framework.

■ NURS 2 — Pharmacology

2 Units

Degree Applicable, CSU

36 hours lecture

Prerequisite: Admission to Nursing Program and eligibility for MATH 51

Coreauisite: NURS 1A

The ethical and legal responsibilities in the administration of medications. Application of mathematical concepts, the Nursing Process, and drug therapy to the administration of fluids and medications.

■ NURS 3 — Medical-Surgical Nursing: 3.5 Units Locomotion/Sensation/Integument/Oncolog

Degree Applicable, CSU

30 hours lecture

108 hours lab

Prerequisite: NURS 1B and NURS 2 or Advanced Placement

Concepts of nursing assessment and intervention with application to clients with integumentary and immunologic disorders as well as dysfunctions of sensation and locomotion. An introduction to oncology nursing is included. The Betty Neuman Model serves as the conceptual framework.

■ NURS 4 — Maternity Nursing

3 Units

Degree Applicable, CSU

27 hours lecture 81 hours lab

Prerequisite: NURS 3 or Advanced Placement

Concepts of nursing assessment and intervention with application to maternity and newborn clients. The Betty Neuman Model serves as the conceptual framework.

■ NURS 5 — Psychiatric Nursing

3 Units

Degree Applicable, CSU

27 hours lecture

81 hours lab

Prerequisite: NURS 4 or Advanced Placement and PSYC 1A
Concepts of nursing assessment and intervention with application to clients with psychiatric disorders in a mental health setting. The Betty Neuman Model serves as the conceptual framework.

■ NURS 6 — Pediatric Nursing

3 Units

7.5 Units

Degree Applicable, CSU

27 hours lecture

81 hours lab

Prerequisite: NURS 5 or Advanced Placement and CHLD 10 or PSYC 14

Concepts of nursing assessment and intervention with application to pediatric clients. The Betty Neuman Model serves as the conceptual framework.

NURS 7 — Medical-Surgical Nursing: Nutrition/Elimination/Surgical Asepsis

Degree Applicable, CSU

63 hours lecture

215 hours lab

Prerequisite: NURS 6 or Advanced Placement

Concepts of nursing assessment and intervention with application to clients with problems of nutrition, elimination, and the reproductive systems. Clients in pre-, intra-, and post-operative settings are included. The Betty Neuman Model serves as the conceptual framework.

■ NURS 8 — Medical-Surgical Nursing: Circulation 5.5 Units and Oxygenation

Degree Applicable, CSU

45 hours lecture 167 hours lab

Prerequisite: NURS 7 or Advanced Placement

Corequisite: NURS 9

Concepts for nursing assessment and intervention with application to clients with cardiovascular and pulmonary problems. The Betty Neuman Model serves as the conceptual framework.

■ NURS 9 — Leadership in Nursing

1 Unit Degree Applicable, CSU

18 hours lecture

Prerequisite: NURS 7 or Advanced Placement

Corequisite: NURS 8

Assists the second year student to develop cognitive and leadership skills for first level management positions. Includes exploration and analysis of current trends and issues in nursing.

■ NURS 10 — Medical-Surgical 4 Units Nursing: Integration/Regulation

Degree Applicable, CSU

45 hours lecture

96 hours lab

Prerequisite: NURS 8, NURS 9 or Advanced Placement

Concepts of nursing assessment and intervention with application to clients with neurological and endocrine disorders. The Betty Neuman Model serves as the conceptual framework.

■ NURS 11 — Preceptorship in Nursing

2 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

112 hours lab

Prerequisite: NURS 10 or Advanced Placement

Students participate as a pre-licensed health team member immediately prior to graduation. Students assume responsibility for a group of clients under direct supervision of a qualified registered nurse.

■ NURS 20 — Nursing Work Experience Program 1 to 4 Units Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing Program

On-the-job experience for nursing students in an approved work setting related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

■ NURS 70 — Role Transition

3 Units

Degree Applicable

(May be taken for Pass/No Pass only)

36 hours lecture

54 hours lab

Prerequisite: Advanced Placement; PT (Psychiatric Technician) or LVN (Licensed Vocational Nurse); ANAT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or equivalent, and PSYC 1A or equivalent, and CHLD 10 or equivalent or PSYC 14 or equivalent

For the LVN (Licensed Vocational Nurse), PT (Psychiatric Technician) or advanced placement student transitioning into the role of the RN (Registered Nurse). Theory and application of concepts of physical assessment, the relationship of homeostatic mechanisms to fluid and electrolyte balance/imbalance utilizing the Betty Neuman Model as the conceptual framework.

NUTRITION AND FOOD

■ NF 10 — Nutrition for Personal Health and Wellness 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Basic principles of human nutrition and their relationship to optimum health. Emphasizes nutrient needs, food selection and weight control during the various life stages from prenatal to adult. Student food intake is evaluated in several ways including computer diet analysis. This course is intended for non-health science majors.

■ NF 20 — Principles of Foods with Lab

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Food science principles and food preparation procedures. Emphasis is on ingredient functions and interactions, food preparation techniques and skills, sensory evaluation, food safety and sanitation, preparation equipment and utensils, storage, and nutrient retention.

■ NF 25 — Essentials of Nutrition

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Scientific concepts of nutrition related to the function of nutrients in basic life processes with emphasis on current health issues; individual needs; functions and sources of nutrients; scientific method for analysis and evaluation of nutrition information; dietary guidelines and current nutrition recommendations; digestion, absorption and metabolism; health, fitness and disease; nutrition in the life span.

■ NF 25H — Essentials of Nutrition - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Scientific concepts of nutrition related to the function of nutrients in basic life processes with emphasis on current health issues; individual needs; functions and sources of nutrients; scientific method for analysis and evaluation of nutrition information; dietary guidelines and current nutrition recommendations; digestion, absorption and metabolism; health, fitness and disease; nutrition in the life span. An honors course designed to provide an enriched experience. Students may not receive credit for both NF 25 and NF 25H.

■ NF 28 — Cultural and Ethnic Foods

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Regional, ethnic, cultural, religious, historical and social influences on food patterns and cuisines. Core components: specialized equipment and utensils related to cultures; traditional foods of selected cultures; geographic factors in food availability; global food issues; sanitation and safety practices.

■ NF 30 — Food Science Technologies

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68

Exploration of food chemistry, food processing and technology and how these affects the color, flavor, texture, aroma and quality of foods. Core components: government regulation of processing and labeling, sensory evaluation, scientific research methods, function of water in foods, pH and acidity, food processing technologies, nutritional labeling, packaging; dispersion systems, enzyme reactions, food additives, composition and properties of food.

■ NF 61 — Creative Foods

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Advisory: NF 20 or food preparation experience

Instruction in the skills necessary for more advanced methods of food preparation. Topics include garde manger, baking and pastry, and international cuisine, techniques of healthy cooking, and vegetarian cuisine with emphasis placed on knife skills, garnishing, plate presentation and creative decorating.

■ NF 62 — Meal Management

3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Advisory: NF 20 or equivalent food preparation experience

Develop management skills related to food preparation, emphasizing planning, preparing, and serving adequate and attractive meals while managing resources including time, money and labor. Includes laboratory experience in planning, preparing and serving meals.

■ NF 81 — Cooking for Your Heart and Health 1 Unit

Not Degree Applicable

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

12 hours lecture

18 hours lab

Principles and techniques of healthful food preparation emphasizing the reduction of fat, saturated fat, trans fat, cholesterol, and sodium, and the increase of fiber and nutrients in foods. The course includes laboratory experience in preparation of health promoting foods and meals.

■ NF 82 — Vegetarian Cuisine

1 Unit

Not Degree Applicable

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

12 hours lecture

18 hours lab

Principles and techniques of vegetarian food preparation and investigation of issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals.

OCEANOGRAPHY

■ OCEA 10 — Introduction to Oceanography 3 Units Degree Applicable, CSU, UC

An introduction to the ocean environment including the geologic, chemical, physical, and ecological aspects of the field. Topics include plate tectonics, currents, waves, tides, shores and human impact on the oceans. Field trips included.

■ OCEA 10H — Introduction to Oceanography - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

54 hours lecture

Prerequisite: Acceptance into the Honors Program

An honors course designed to provide an enriched experience. Introduces the geological, chemical, physical, and biological aspects of the Earth's ocean. Topics include plate tectonics, physiography of ocean basins and continental margins, ocean sediment, atmosphere and ocean circulation, waves and tides, coasts, and marine ecology. The companion Oceanography Lab (OCEA 10L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required. Students may not receive credit for both OCEA 10 and OCEA 10H.

■ OCEA 10L — Introduction to Oceanography Laboratory 1 Unit Degree Applicable, CSU, UC

54 hours lab

Corequisite: OCEA 10 or OCEA 10H (May have been taken previously)

Laboratory applications and problem-solving in oceanography, including related aspects of geology, meteorology, and marine biology. Recommended for students needing a lab to transfer to a 4-year college/university.

PHILOSOPHY

■ PHIL 3 — Logic in Practice

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions.

■ PHIL 3H — Logic in Practice - Honors

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 3 and PHIL 3 H.

■ PHIL 5 — Introduction to Philosophy

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

An exploration of basic issues in ethics, social philosophy, metaphysics, theories of knowledge and contemporary philosophies of life.

■ PHIL 5H — Introduction to Philosophy - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

An exploration of basic issues in ethics, social philosophy, metaphysics, theories of knowledge and contemporary philosophies of life. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 5 and PHIL 5H.

■ PHIL 8 — Critical Thinking

3 Units Degree Applicable, CSU, UC

54 hours lecture

Effective use of critical thinking in contemporary living, including recognizing faulty arguments, the usefulness of validity and truth. identifying and avoiding common fallacies in thinking.

■ PHIL 9 — Critical Thinking and Logical Writing 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: ENGL 1A

Function and use of formal and informal logic, argument, critical evaluation, and language in written composition.

■ PHIL 12 — Ethics

3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Critical analysis of empirical and normative factors involved in choice, including an examination of major ethical theories and their application to the study of moral problems.

■ PHIL 12H — Ethics - Honors

3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Critical analysis of empirical and normative factors involved in choice, including an examination of major ethical theories and their application to the study of moral problems. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 12 and PHIL 12H.

■ PHIL 15 — Major World Religions

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

Examines the salient features of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and aspirations of the peoples of the world. The following (or more) religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Islam, Judaism, and Christianity.

■ PHIL 15H — Major World Religions - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Examines the salient features of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and aspirations of the peoples of the world. The following religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Shinto, Judaism, Christianity, Islam, An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 15 and PHIL 15H.

■ PHIL 20A — History of Western Philosophy 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Major western philosophers and philosophical ideas from pre-Socratic times to medieval times.

■ PHIL 20AH — History of Western Philosophy - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Major western philosophers and philosophical ideas from pre-Socratic times to medieval times. An honors course is designed to provide an enriched experience. Student may not receive credit for both PHIL 20A and PHIL 20AH.

■ PHIL 20B — History of Western Philosophy 3 Units Degree Applicable, CSU, UC

54 hours lecture

Major western philosophy and philosophical ideas from the Renaissance to the present.

■ PHIL 20BH — History of Western Philosophy - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Progarm

Major western philosophy and philosophical ideas from the Renaissance to the present. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 20B and PHIL 20BH.

PHOTOGRAPHY

■ PHOT 1 — Laboratory Studies: Black and White Photography

1 Unit

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lab

Corequisite: PHOT 10 (may have been taken previously)

Extended black and white laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice.

■ PHOT 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 Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

The basic mechanical, optical, and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques.

■ PHOT 11 — Advanced Professional Photography 4 Units

Degree Applicable

36 hours lecture

108 hours lab

Prereauisite: PHOT 10

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

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Prerequisite: PHOT 10

Explores the use of continuous tone and alternative black and white techniques and processes. Emphasis will be on solving photographic problems through the use of current techniques such as montage printing, Polaroid and xerographic applications, hand coloring, and emulsion coating (cyanotype, Luminous/Liquid Light) as well as other special techniques.

■ PHOT 14 — Commercial Lighting

3 Units

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Prereauisite: PHOT 10

Use of studio equipment, and studio and location lighting techniques used in all aspects of commercial photographic applications. Students must furnish adjustable Single Lens Reflex camera.

■ PHOT 15 — History of Photography

3 Units

Degree Applicable, CSU, UC

54 hours lecture

History of photography from circa 1839 to the present. Invention of photography, technology tools and photographic representation and their impact on society.

■ PHOT 16 — Fashion Photography

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: PHOT 11

Illustrative, editorial and advertising fashion photography. Studio and location production in both black and white and color are emphasized. Aspects of business operation and working with clients are explored.

■ PHOT 17 — Photocommunication

3 Units
Degree Applicable

36 hours lecture

72 hours lab

Prerequisite: PHOT 10

Explores the application of the photosensitive materials, photochemicals and optics. The emphasis will be on the aesthetic and expressive uses to which these materials lend themselves. The student is expected to supply his/her own adjustable camera.

■ PHOT 18 — Portraiture and Wedding Photography 3 Units Degree Applicable

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

36 hours lecture

54 hours lab

Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In depth study and practice in professional wedding photography.

■ PHOT 20 — Color Photography

3 Units Degree Applicable

36 hours lecture 54 hours lab

Prerequisite: PHOT 10

Fundamentals of photographic color theory, editing, schemes and presentation of color photographs. Applying color psychology principles and HDR to enhance image messages.

■ PHOT 21 — Exploring Color Photography

3 Units

Degree Applicable

36 hours lecture 54 hours lab

Prerequisite: PHOT 20

Use of color principles as they relate to commercial and artistic styles and innovative use of color applications. Includes lighting and unusual techniques, exaggerated and unique color schemes, light-painting, lighting effects, high dynamic range effects, and oversize output.

■ PHOT 25 — Digital Capture Workflow

3 Units
Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: PHOT 11

Advanced application of digital capture and workflow using DSLR medium and large format digital camera systems and software to produce high-quality digital files as a photographer or as a digital photographic technician. Field trips may be required.

■ PHOT 28 — Photography Portfolio Development 3 Units Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: Minimum 12 units of photography at Mt. San Antonio College or equivalent preparation

Development of a photography portfolio for job application or gallery exhibition purposes.

■ PHOT 29 — Studio Business Practices for 3 Units Commercial Artists

Degree Applicable

54 hours lecture

Studio business practices for commercial artists. Small business operations, pricing services based on the licensing business model, copyright basics, branding, presentation and promotion, markets and finding clients, and estimating and invoicing.

■ PHOT 30 — Commercial and Illustrative Photography 3 Units Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: PHOT 11, PHOT 20

Application of photographic principles to commercial and illustrative photography. Practical experience in studio product photography, illustration, fashion, and architectural photography. Areas of promotion and pricing will be covered. Both black-and-white and color media will be used.

■ PHOT 98 — Work Experience in Photography 1 to 3 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 225 hours lab

Pr

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.

■ PHOT 99 — Special Projects in Photography

2 Units

Degree Applicable

(May be taken four times for credit)

36 hours lecture

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

PHYSICAL SCIENCE

■ PHSC 3 — Energy Science

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Advisory: Eligibility for MATH 51 and ENGL 68

Provides a broad technical understanding of the physical principles underlying the various forms of energy production, the role of energy in modern society, and an understanding of the wider environmental and societal impacts of different energy production technology choices. Course topics will include: fossils fuels, nuclear energy, hydro, wind, solar energy, biofuels, and energy distribution and storage. Field trips required.

■ PHSC 7 — Physical Science

3 Units

1 Unit

Degree Applicable, CSU, UC

54 hours lecture

Designed for the non-science major. A primarily non-mathematical, conceptual approach to basic principles of physics and chemistry and their practical applications. Critical thinking is stressed in such topics as motion, heat, electricity and magnetism, sound and light, radioactivity, atomic theory and modern physics. May be taken with Physical Sciences Laboratory for those students needing a laboratory science course.

■ PHSC 7L — Physical Science Laboratory

Degree Applicable, CSU, UC

54 hours lab

Corequisite: PHSC 7

Laboratory topics will parallel the course content of Physical Science lecture.

PHYSICAL THERAPY AIDE

■ PHTH 81 — Physical Therapy Aide

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: ANAT 50 or equivalent

Role and skills of physical therapy aide. Procedures commonly performed by aides will be explained, demonstrated and practiced; includes terminology and interpersonal skills.

PHYSICIAN ASSISTANT PREPARTORY

■ PAP 101 — Fundamentals for Physician
Assistant Preparatory Program

8 Units

Not Degree Applicable

144 hours lecture

Prepares students for entrance into Physician Assistant programs. Provides an overview of physician assistant fundamentals, ethics, financial aid, and interviewing techniques. Overviews physician assistant curriculum in family practice, pediatrics, orthopedics and various other topics presented in physician assistant programs. Analyzes stress coping mechanisms and time management for physician assistant students.

PHYSICS

■ PHYS 1 — Physics

4 Units
Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: Eligibility for MATH 71

Discovery of basic concepts of physics by working through guided activities in a workshop style. Topics include light and geometrical optics, electricity and DC circuits (with capacitors,) linear and rotational motion, forces, momentum, energy, harmonic motion and waves.

■ PHYS 2AG — General Physics

4 Units
Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: MATH 150

The basic principles of physics. Includes theory, applications, laboratory, and problem solving in mechanics, heat, fluids, and wave motion.

■ PHYS 2BG — General Physics

4 Units

Degree Applicable, CSU, UC

54 hours lecture

icable | 54 hours lab

Prerequisite: PHYS 2AG or equivalent

A continuation of Physics 2AG. Includes electricity and magnetism (including DC and AC circuits,) geometrical and physical optics, relativity, quantum physics, atomic and nuclear physics. Laboratory includes use of computers to analyze data and simulate electric circuits.

■ PHYS 4A — Engineering Physics

5 Units

Degree Applicable, CSU, UC

72 hours lecture

54 hours lab

Prerequisite: PHYS 2AG

Corequisite: MATH 181 (may have been taken previously)

Studies linear and rotational motion, forces, work, energy, oscillations, gravitation, properties of solids, and waves. Includes laboratory experience, with significant use of computers for data acquisition and analysis.

■ PHYS 4B — Engineering Physics

5 Units

Degree Applicable, CSU, UC

72 hours lecture

54 hours lab

Prerequisite: PHYS 4A

Corequisite: MATH 280 (may have been taken previously)

Heat, kinetic theory of gases, thermodynamics, electromagnetism (including DC and AC circuits,) and Maxwell's equations. Laboratory includes significant use of computers for data acquisition, analysis and simulation.

■ PHYS 4C — Engineering Physics

5 Units

Degree Applicable, CSU, UC

72 hours lecture

54 hours lab

Prerequisite: PHYS 4B

Fluids, sound, electromagnetic waves, optics, diffraction and interference of waves, relativity, quantum physics, atomic and nuclear structure, nuclear reactions and elementary particles. Laboratory includes significant use of computers for data analysis.

■ PHYS 99 — Special Projects in Physics

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (may have been taken

previously)

In order to offer selected students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will improve skills by further instruction and practice.

POLITICAL SCIENCE

■ POLI 1 — Political Science

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code.

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

■ POLI 1H — Political Science - Honors

Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both POLI 1 and POLI 1 H.

■ POLI 2 — Political Science

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A

Comparative study of constitutional principles, governmental institutions, political processes, and ideologies in selected countries

■ POLI 5 — Political Theory I - Ancient to Modern 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A

Anient to modern (mid-19th century) theories of political institutions, social change and social dynamics.

■ POLI 7 — Political Theory II - Early Modern 3 Units to Contemporary

Degree Applicable, CSU, UC

54 hours lecture Prerequisite: POLI 1

Advisory: Eligibility for ENGL 1A

Major political philosophers and theories from the late nineteenth century to the present. Intended to prepare students majoring in political science for further study in the discipline by providing adequate background preparation in political philosophy.

■ POLI 9 — Introduction to International Relations 3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 1A

Acquaints students with the historical and political background of international relations. Attention is given to world politics, international organization and America's place in world affairs.

■ POLI 10 — Environmental Politics

3 Units
Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A

Global environmental problems including an analysis of political theories and comparative policies in the emerging field of environmental politics.

■ POLI 25 — Politics of the Mexican American 3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Studies the impact that national, state and local governments have on the nation's largest ethnic minority (the Latino Community). Examines the national and state constitutions and the impact they have had on the Hispanic Community as a whole (not just Mexican Americans). Studies American institutions as they pertain to the Chicano Community and examines the Chicano Community's responses to the actions of the dominant political institutions.

■ POLI 30 — California State and Local Government 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68

Surveys the forces shaping California government and analyzes the operation of governmental institutions within California and the political and fiscal challenges facing California.

■ POLI 35 — African American Politics

cs 3 Units
Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Examines the methods and strategies employed by African-Americans in their quest to gain equal access and participation in American institutions. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code.

PSYCHOLOGY

■ PSYC 1A — Introduction to Psychology 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Develops an understanding of the basic principles of behavior and mental processes. The subject matter and research methods of scientific psychology are presented. Topics include; history, biopsychology, sensation, perception, states of consciousness, learning, memory, forgetting, language, cognition, life-span development, gender, sexuality, stress, health, motivation, emotions, social psychology, abnormality, treatment and social and diversity issues.

■ PSYC 1AH — Introduction to Psychology - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Develops an understanding of the basic principles underlying behavior and cognition. The subject matter and methods of scientific psychology are presented. Topics include scientific methodology, history, biopsychology, sensation, perception, states of consciousness, learning, memory, forgetting, language, cognition, intelligence, life-span development, personality, stress, health, motivation, emotions, psychopathology, psychotherapeutic approaches, and social factors. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 1A and PSYC 1AH.

■ PSYC 1B — Biological Psychology

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.

■ PSYC 3 — Introduction to Research Methods 4 Units in Psychology

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: PSYC 1A or PSYC 1AH and PSYC 10 or MATH 110 or MATH 110H

Advisory: ENGL 1A

Research methods in psychology. Includes systematic observation, research design, survey development, execution and analysis of experimental and other research methods, and American Psychological Association (APA) publication style writing.

■ PSYC 5 — Psychology of Reasoning and Problem Solving 3 Units Degree Applicable, CSU

54 hours lecture

The nature of critical thinking; models and strategies; common fallacies of reasoning; self-regulation in the thinking process; application of critical thinking to specific areas, such as comparison of cognitive and information-processing models; more specifically: memory, thinking and problem solving, creativity, learning and forgetting, decision making and reasoning.

■ PSYC 10 — Statistics for the Behavioral Sciences 4 Units Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: PSYC 1A or SOC 1 and eligibility for MATH 110
Statistical principles of the behavioral sciences emphasizing research design, scales of measurement, distributions, graphing, descriptive statistics, measures of central tendency, measures of variability, z-test, independent and dependent t-tests, inferential statistics, confidence intervals, linear correlations and regression, and analysis of variance, including multivariate factorial designs and chi square analyses. Statistical analyses through the use of computerized statistical packages are interpreted through lab experience.

■ PSYC 14 — Developmental Psychology 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 1A

Psychological principles of human development across the lifespan, from birth to death. This course does not fulfill the Title 22 requirements for Child Development majors.

■ PSYC 15 — Introduction to Child Psychology 3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Examines the psychology of the child from conception through adolescence. Emphasis on physical, cognitive, and psychosocial development as it pertains to the child?s psychological experiences. Includes psychological disorders and therapies specific to children and adolescents. This course does not fulfill Title 22 requirement for child development majors.

■ PSYC 17 — Introduction to Human Services 3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: PSYC 1A or PSYC 1AH or SOC 1 or SOC 1H

History, philosophy and development of human services in America. Explores careers in human services, self-exploration in matching personal and professional interests to entry levels of human services employment.

■ PSYC 19 — Abnormal Psychology

3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: PSYC 1A or PSYC 1AH

Application of principles of general psychology to the field of psychopathology. Major classifications of psychiatric disorders, their causes and treatment modalities. Includes theoretical perspectives used in abnormal psychology.

■ PSYC 25 — The Psychology of Women 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: PSYC 1A and ENGL 1A (taken prior or concurrently)

A bio-cultural analysis of women. Emphasis will be placed on biological, psychological and sociological data related to principles of development, socialization, learning, motivation, emotion and perception.

■ PSYC 26 — Psychology of Sexuality 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Explores the factors involved in establishing and maintaining intimate sexual relationships. The focus of the course is on the findings of social psychologists concerning sexuality and love relationships in our culture.

■ PSYC 33 — Psychology for Effective Living 3 Units Degree Applicable, CSU

54 hours lecture

Emphasis on comprehension and application of psychological principles to interpersonal relationships, personal growth, sexuality, vocation, marriage, parenting, aging, and other circumstances encountered in the life cycle. Considers personality development and psychological disorders as well as therapeutic approaches.

■ PSYC 99 — Special Projects in Psychology 2 Units Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

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

RADIO TELEVISION

■ R-TV 01 — Introduction to Broadcasting 3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Film and electronic media industries, concentrating on the United States. Includes cultural, historical, social, legal and economic issues in motion pictures, radio and television broadcasting, cable, satellite, internet, video games and related technologies.

■ R-TV 02 — On-Air Personality Development 3 Units Degree Applicable, CSU

54 hours lecture

Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)

Developing a broadcast voice, style and understanding of the business for all areas of the industry, including disc jockey, newscaster and voice over artist. Students will also develop an understanding of the workings of voice and diction as they pertain to broadcasting and learn to evaluate the effectiveness of voice work done by others. Emphasis will also be placed on developing the content of on-air shows. Students will review the basics of the production studio and its components.

■ R-TV 02A — On-Air Personality Development-Spanish Market

3 Units

Degree Applicable

54 hours lecture

Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)

Covers developing a broadcast voice, style and understanding of the business for all areas of Spanish-language broadcasting, including disc jockey, newscaster and voice over artist. Students will also develop an understanding of the workings of voice and diction as they pertain to broadcasting and learn to evaluate the effectiveness of voice work done by others. Emphasis will also be placed on developing the content of on-air shows suitable to the Spanish-language market. Students will review the basics of the production studio and its components. The course is taught in English.

■ R-TV 03 — Sportscasting and Reporting

1.5 Units Degree Applicable

27 hours lecture

Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)

Covers in-studio sportscasting, interviewing, field reporting and play-by-play for radio and television. Students will learn the legalities and ethics of covering sports, and how to work with professional sports teams and equipment technicians. Practical experience will be provided through coverage of Mt. SAC's athletic teams. Students who repeat this course will improve skills through further instruction and practice.

■ R-TV 04 — Broadcast News Field Reporting

3 Units Degree Applicable

Degi

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.

■ R-TV 05 — Radio-TV Newswriting

3 Units

Degree Applicable

54 hours lecture

Writing, editing and reporting radio and TV news, utilizing the Associated Press Wire Service, AP Newsboss software. Students will rewrite news wire copy as well as create stories from interviews and from covering news events, including the incorporation and selection of sound bites from actualities. Emphasis will be on factual and concise content and the ability to work under deadline.

■ R-TV 06 — Broadcast Traffic Reporting

1.5 Units Degree Applicable

27 hours lecture

Corequisite: R-TV 01 (may have been taken previously)

History and development of techniques involved in radio and television traffic reporting through lecture and hands-on practice. Interpretation and reading of police codes as they relate to traffic, accidents, and emergency situations including broadcast rules and liabilities as they apply to traffic reporting. Emphasis on both production and delivery of anchored and airborne reports.

■ R-TV 07A — Beginning Commercial Voice-Overs 3 Units Degree Applicable

54 hours lecture

Advisory: R-TV 01

Development of voices for radio and television commercials, character voices, narrations, and animation. Also covers auditioning, working with agents and agencies, and understanding voice-over contracts.

■ R-TV 07B — Advanced Commercial Voice-Overs 3 Units

Degree Applicable

36 hours lecture 54 hours lab

Prereauisite: R-TV 07A

Instruction in advanced techniques used in the art of voicing for radio and TV commercials, animation and narration. Further development of audition and recording session skills.

■ R-TV 09 — Broadcast Sales and Promotion 3 Units

Degree Applicable

54 hours lecture

Corequisite: R-TV 01 (May have been taken previously)

Strategies and legalities for creating commercial campaigns for radio and television including demographic targeting, marketing strategies and copywriting. Includes creation of contests and promotional campaigns.

■ R-TV 10 — Radio Programming and Producer Techniques 3 Units Degree Applicable

54 hours lecture

Corequisite: R-TV 01 (May have been taken previously)

Programming, management and producing techniques for various radio stations formats such as music, news, talk, and sports.

■ 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 tapebased 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.

R-TV 11B — Advanced Radio Production 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: R-TV 11A

Techniques in non-linear recording, editing and mixing using Pro Tools technology as these skills apply to a variety of applications in the broadcasting industry. Develop mastery of the concepts and skills 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

Creation and production of radio and television commercials. Includes using demographic research to target specific audiences, truth in advertising, slogan and campaign development, character creation, commercial formats, and the use of visual and audio appeals.

■ R-TV 14 — Media Aesthetics

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Media aesthetics for television and film presentation. Stresses critical, theoretical and practical analysis. Material is presented from a producer/artist point of view and is intended for those pursuing a career in film, television, and other electronic visual media.

■ R-TV 15 — Broadcast Business Practices

3 Units

Degree Applicable

54 hours lecture

Corequisite: R-TV 01 (may have been taken previously)

Radio and television industry as a business for profit. Basic techniques in negotiating with station management and agents as well as dealing with contracts, residuals, re-use rights, mergers, protection of intellectual properties, union representation and Federal Communications Commission (FCC) law. Professional ethics and broadcasters' responsibilities to their audiences are also discussed.

■ R-TV 17 — Internet Radio and Podcasting

Degree Applicable

3 Units

54 hours lecture

Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)

Covers all aspects of Internet broadcasting and podcasting including programming, announcing, promotions, and legal and copyright issues through the use of an actual Internet radio station.

■ R-TV 18 — Writing for Television and Film 3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Characterization, visualization, structure and form in various types of writing for television and motion picture production.

■ R-TV 19A — Beginning Video Production

Degree Applicable, CSU

3 Units

3 Units

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

36 hours lecture

54 hours lab

Prerequisite: R-TV 14

Video production using studio, remote multicamera, and film-style techniques. Includes instruction in lighting, audio recording for motion video, basic directing and producing, editing software, and production of short narratives.

■ R-TV 19B — Advanced Video Production

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

Video production techniques emphasizing narrative storytelling, film-style aesthetics and production.

■ R-TV 20 — Television News Production

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prereauisite: R-TV 05 or R-TV 19A

TV newscast production using writing, announcing, production, equipment, direction, graphics, and editing skills both in and out of the studio.

■ R-TV 21 — Remote Television Production and 3 Units Engineering

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: R-TV 19A

Remote video production using both multi-camera and single camera techniques. Topics include video engineering, directing, and remote production truck setup.

■ R-TV 22 — Editing for Film and Television

3 Units

Degree Applicable

54 hours lecture

Aesthetics and use of non-linear editing software for film and television.

■ R-TV 23 — Reality Show Production

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: R-TV 19A

Types and production of Reality Show television programs. Authoring and pitching of reality show concepts. Instruction in specific equipment skills in lighting, wireless multicamera shooting, editing and related skills. Includes production of a reality show.

■ R-TV 26 — Current Issues in Entertainment Law 3 Units

Degree Applicable

54 hours lecture

Advisory: R-TV 01 or PLGL 30

Overview of the major legal and FCC regulatory issues facing broadcasting, cable and developing media. Also covers the growing importance of intellectual property law as it applies to digital media and the Internet.

■ R-TV 30 — Introduction to Careers in Entertainment 2 Units Degree Applicable

36 hours lecture

An overview of broadcasting as a potential career. Examines the skills and training needed to work in radio, television and film in such areas as D-J, news anchor/reporter, sports reporter, commercial voice-over artist, production director, writer, producer and director.

■ R-TV 31 — History of Radio DJs

3 Units Degree Applicable

54 hours lecture

Traces the history of music radio through study of the most influential disc jockeys in broadcasting history.

■ R-TV 32 — Radio - TV Internet Applications

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.

■ R-TV 33 — Radio Show Producer Techniques and Procedures

Degree Applicable

3 Units

54 hours lecture

Corequisite: R-TV 01 (may have been taken previously)

Covers the behind-the-scenes aspects of producing a radio show, with special emphasis on generating ideas for specific audiences, identifying and booking guests and preparing interviews for broadcast.

■ R-TV 34 — On-Camera Performance

1.5 Units Degree Applicable

27 hours lecture

Advisorv: R-TV 01

On-camera techniques used in news and sports anchoring and reporting including make-up, hair, wardrobe and overall presentation.

■ R-TV 96 — Campus Radio Station Lab

1 to 2 Units Degree Applicable

(May be taken four times for credit)

54 to 108 hours lab

Prereauisite: 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.

■ R-TV 97A — Radio/Entertainment Industry Seminar 1 Unit Degree Applicable

(May be taken four times for credit)

18 hours lecture

Prerequisite: R-TV 01 and any other three R-TV units

Coreauisite: R-TV 97B

A capstone class for students preparing for a career in the radio/ entertainment industry. Students share and critique experiences emphasizing professionalism and problem-solving techniques related to their internship experience. Students who repeat this course will improve skills through further instruction and practice.

■ R-TV 97B — Radio/Entertainment Industry Internship Degree Applicable

(May be taken four times for credit)

75 hours lab

Prerequisite: R-TV 01 and any other three R-TV units

Coreauisite: R-TV 97A

Provides the student with on-the-job experience in the radio/ entertainment industry in order to strengthen and broaden his/ her skills in the workplace. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

■ R-TV 99 — Radio/TV Special Projects

2 Units

Degree Applicable

(May be taken four times for credit)

36 hours lecture

Prerequisite: Completion of six R-TV course units

Students earn credit via a broadcasting or film course of study customized for the student. Instructor authorization is needed prior to enrollment.

■ R-TV 100 — Work Experience in Film and Television 1 to 3 Units

Degree Applicable

(May be taken four times for credit)

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

75 to 225 hours lab

Prerequisite: Completion of 12 units of R-TV courses from among the following: R-TV 1, 14, 18, 19A, 19B, 20, 21, 22, 23, taken at Mt. San Antonio College. Compliance with work experience regulations as designated in the college catalog.

Provides students with on-the-job experience in the film or TV industry, related to classroom instruction, at an approved work site. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further experience.

■ R-TV 101 — Work Experience in Broadcast Entertainment

1 to 2 Units

Degree Applicable

(May be taken four times for credit)

75 to 150 hours lab

Prerequisite: Completion of RTV 01, RTV 97A, RTV 97B and any three other RTV units, taken at Mt. San Antonio College. Compliance with Work Experience regulations as designated in the College Catalog.

On-the-job experience at an approved work site in the Broadcast or Entertainment industries. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each credit. Students who repeat this course will improve skills through further experience.

RADIOLOGIC TECHNOLOGY

■ RAD 30 — Radiographic Pathology

1.5 Units

Degree Applicable

24 hours lecture Corequisite: RAD 63

Advisory: RAD 54

Concepts of disease and pathological processes demonstrated in diagnostic radiography; etiology; diagnosis, and prognosis of systemic disease processes.

■ RAD 31 — Fluoroscopy

2 Units Degree Applicable

36 hours lecture

Prerequisite: RAD 55B

Corequisite: RAD 64 and RAD 56

Components and characteristics of fluoroscopic systems including regulatory requirements for operation. Includes quality control and quality assurance systems relative to radiology.

■ RAD 32 — Digital Imaging in Radiology

2 Units

Degree Applicable

36 hours lecture

Prerequisite: RAD 52A and RAD 61A

Corequisite: RAD 52B

Components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-based and digital imaging systems. Principles of digital system quality assurance and maintenance presented.

■ RAD 50 — Radiologic Technology

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Admission to the Radiologic Technology Program and CHEM 10

Radiation protection, darkroom technique, general principles of x-ray production and production of the radiograph in the hospital environment. Includes professional ethics and the legal considerations of health care.

■ RAD 52A — Techniques of Radiologic Technology 5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

263 hours lab

Prerequisite: ANAT 10A Coreauisite: RAD 61A

Practical application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructors. Emphasis on chest, upper and lower limbs, from digits to shoulder, from toes to knee, abdomen, and kidney, ureters, and bladder (KUB).

■ RAD 52B — Techniques of Radiologic Technology 2.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

140 hours lab

Prereauisite: RAD 52A

Continued application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructor. Emphasis on upper and lower limbs.

■ RAD 53 — Techniques of Radiologic Technology 5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

263 hours lab

Prerequisite: RAD 52B

Coreauisite: RAD 62A

Practical application of radiographic theories and principles in an affiliated hospital under direct supervision of clinical personnel and college instructors. Emphasis on abdominal and thoracic viscera, spine, common contrast exams, and generalized skull radiography.

■ RAD 54 — Techniques of Radiologic Technology 3 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

167 hours lab

Prerequisite: RAD 62A

Practical experience in a hospital setting under the supervision of clinical personnel and college instructors. Emphasis on skull, portable radiography, surgical studies and the development of nursing skills as it relates to radiologic technology.

■ RAD 55A — Techniques of Radiologic Technology 7.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

383 hours lab

Coreauisite: RAD 63

Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on cystograms, urethrograms, foreign body localization, tomography, and venography.

■ RAD 55B — Techniques of Radiologic Technology 2.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

140 hours lab

Prereauisite: RAD 55A

Continued experience in a hospital setting under guidance of clinical personnel and college instructors. Emphasis on E.R.C.P., sialogram, retrograde and other advanced procedures.

■ RAD 56 — Techniques of Radiologic Technology 7 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

380 hours lab

Coreauisite: RAD 64

Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on basic vascular procedures (angiograms), mammograms, tube placement, myelograms, arthrograms, and hysterosalpingograms.

■ RAD 57 — Techniques of Radiologic Technology 4.5 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 61A — Theory of Radiologic Technology 4 Units Degree Applicable, CSU

72 hours lecture

Prerequisite: RAD 50, MEDI 90

Corequisite: RAD 52A, RAD 61B, RAD 61C

Concepts of radiation, fundamentals of physics, the atom, electromagnetic radiation, electricity and magnetism, electromagnetism, the X-ray machine and fluoroscopic equipment and procedures.

■ RAD 61B — Radiographic Positioning

3 Units

Degree Applicable, CSU

54 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.

■ RAD 61C — Radiologic Technology Seminar 1.5 Units

Degree Applicable, CSU

18 hours lecture

18 hours lab

Corequisite: RAD 61A and RAD 61B

Analysis of technical performance when producing radiographs of the chest, upper and lower extremities, and abdomen. Documentation of radiographic exposure techniques.

■ RAD 62A — Theory of Radiologic Technology 4 Units Degree Applicable, CSU

72 hours lecture

Prerequisite: ANAT 10A, RAD 61A

Corequisite: RAD 53, RAD 62B and RAD 62C

Areas of X-ray production and interaction with matter, X-ray emissions, beam restricting devices, grids, film processing, screens, radiographic quality and special equipment/accessories and procedures.

3 Units ■ RAD 62B — Radiographic Positioning

Degree Applicable, CSU

54 hours lecture

Prerequisite: RAD 32 and RAD 52B

Corequisite: RAD 62A and RAD 62C and RAD 53

Radiographic positioning and procedures of the abdomen, digestive and urinary systems, thorax, vertebral column, general cranial, facial and introduction to temporal bone radiography to include radiologic anatomy, terminology, radiation protection, pediatric radiography and ethics.

■ RAD 62C — Radiologic Technology Seminar 1.5 Units Degree Applicable, CSU

18 hours lecture 18 hours lab

Corequisite: RAD 62A and RAD 62B

Analysis of the technical performance of radiographic examination of the vertebral column, bony thorax, digestive system, urinary system, abdomen and skull radiography.

■ RAD 63 — Theory of Radiologic Technology 4 Units

Degree Applicable, CSU

72 hours lecture Prerequisite: RAD 54 Corequisite: RAD 55A

Special radiographic studies, contrast media usage and radiographic pathology. Includes principles of radiation protection and radiobiology.

■ RAD 64 — Theory of Radiologic Technology 4 Units

Degree Applicable, CSU

72 hours lecture Prerequisite: RAD 63

Corequisite: RAD 31 and RAD 56

Analytical review of the radiologic technology core curriculum. Serves as preparation for State Certification and National Registry exams.

■ RAD 91 — Nursing Procedures in Radiologic 1.5 Units **Technology**

Degree Applicable, CSU

18 hours lecture 47 hours lab

Coreauisite: RAD 50

Nursing techniques and procedures; provides students with knowledge of proper patient care and management; includes patient transfer, disinfection and/or sterilization, isolation techniques, monitoring vital signs, common emergency situations and monitoring medical equipment.

READING

■ READ 70 — Improving Reading Comprehension 3 Units Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Prerequisite: Satisfactory score on appropriate placement test Introduction to reading, comprehension, and vocabulary strategies using narrative text. Introduction to self-awareness of reading capabilities.

■ READ 80 — Developing Reading Comprehension 3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Prerequisite: READ 70 or satisfactory score on reading placement

Further development of reading comprehension and vocabulary strategies including self-awareness of reading capabilities.

■ READ 90 — Preparing for College Reading 3 Units

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.

■ READ 100 — Analysis and Critical Reading 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: READ 90 or satisfactory score on reading placement

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.

RESPIRATORY THERAPY

■ RESD 50 — Theory and Principles of Respiratory 2 Units Therapy

Degree Applicable, CSU

36 hours lecture

Prerequisites: ANAT 10A, ANAT 10B, CHEM 10, MATH 51, and MEDI

Corequisite: RESD 51A and RESD 52

Properties of liquids, gases, kinetic theory of gases, units of measurements, gas laws, lung mechanics, flow of fluids, and pressure measuring devices used in respiratory therapy.

■ RESD 51A — Respiratory Therapy Science 4 Units

Degree Applicable, CSU

54 hours lecture 54 hours lab

Corequisite: RESD 50 and RESD 52

Principles of respiratory therapy equipment. Emphasis placed on methods of administration of therapy and application of specialized equipment in the clinical setting. Also includes respiratory physiology and oxygen transport.

■ RESD 51B — Respiratory Therapy Science 4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: RESD 50 and RESD 51A

Corequisite: RESD 53 and RESD 60

Basic principles of respiratory therapy equipment will be presented. Emphasis is placed on the methods of administration of therapy and the application of specialized equipment in the acute care setting and the application of mechanical ventilation in the clinical setting.

■ RESD 52 — Pulmonary Anatomy and Physiology 3 Units

Degree Applicable, CSU

54 hours lecture

Corequisite: RESD 50 and RESD 51A

Anatomy and physiology of the cardiopulmonary, neurological and renal systems emphasizing clinical application of physiological concepts.

■ RESD 53 — Cardiopulmonary Pathophysiology 3 Units Degree Applicable, CSU

54 hours lecture

Coreauisite: RESD 51B

Anatomic alterations of the lungs, etiology, overview of the cardiopulmonary clinical manifestations, and general management of commonly encountered cardiopulmonary diseases.

■ RESD 55 — Adult Respiratory Intensive Care 3 Units Degree Applicable, CSU

54 hours lecture

Coreauisite: RESD 56B

Provides an in-depth approach to the current modalities and monitoring tools of respiratory care. Emphasis is on the adult patient who is critically ill with primary and/or secondary cardio-

pulmonary failure.

■ RESD 56A — Techniques of Respiratory Therapy 2.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

143 hours lab

Prerequisite: RESD 51B Corequisite: RESD 57B

Clinical practice in intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients in a hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first academic sessions of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the general management and treatment of adult and pediatric patients requiring respiratory care are introduced.

■ RESD 56B — Techniques of Respiratory Therapy 6 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

324 hours lab

Prerequisite: RESD 56A

Corequisite: RESD 55 and RESD 58

Clinical practice in the hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first three semesters of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric patients requiring respiratory care are done. Emphasis of intensive care and mechanical ventilator procedures are introduced.

■ RESD 56C — Techniques of Respiratory Therapy 2.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

143 hours lab

Prerequisite: RESD 55

Clinical practice in the hospital setting. Continued practice of intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients.

■ RESD 56D — Techniques of Respiratory Therapy 6 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

325 hours lab

Prerequisite: RESD 56C

Corequisite: RESD 59 and RESD 61

Clinical practice in the hospital setting. Application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric intensive care patients. A six-week rotation is done in the neonatal intensive care unit. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first four semesters of the Respiratory Therapy Program.

■ RESD 57A — Special Procedures for Respiratory Care 1.5 Units Degree Applicable, CSU

27 hours lecture

Prereauisite: RESD 50

Application of and skills development in bronchoscopy, blood drawing and analysis, chest drainage, microbiology for respiratory care, intermittent positive pressure breathing (IPPB), and blood gas data analysis.

■ RESD 57B — Special Procedures for Respiratory Care 1.5 Units Degree Applicable, CSU

27 hours lecture

Prerequisite: RESD 51B Corequisite: RESD 56A

Application and skills development in pharmacology, bronchoscopy, mechanical ventilation, and arterial blood gas puncture.

■ RESD 58 — Neonatal Intensive Care

3 Units

Degree Applicable, CSU

54 hours lecture

Corequisite: RESD 56B and RESD 55

Emphasizes neonatal pathophysiologies, etiologies, and ramifications. Encompasses the newest techniques in monitoring equipment used in the treatment and maintenance of the premature infant. Designed primarily for respiratory therapists and nurses.

■ RESD 59 — Respiratory Therapeutic Modalities 3 Units Degree Applicable, CSU

54 hours lecture

Coreauisite: RESD 56C

Advanced practitioner review and evaluation of patient data, equipment manipulation, and therapeutic respiratory therapy procedures. Student self assessment and preparation for board examinations, credentialing and employment. Students are required to purchase self-assessment examinations.

■ RESD 60 — Comprehensive Pulmonary Assessment 2 Units Degree Applicable, CSU

36 hours lecture

Corequisite: RESD 51B and RESD 53

Techniques of pulmonary assessment including history taking, clinical laboratory data, pulmonary function testing data, chest X-rays, physician exam findings, arterial blood gas data, hemodynamic monitoring data, exhaled gas monitoring data, nutrition, and synopsis of findings; extensive practice in collecting and recording this data.

■ RESD 61 — Current Issues in Respiratory Care 3 Units Degree Applicable, CSU

54 hours lecture

Corequisite: RESD 56D and RESD 59

Explores recently developed health care techniques and strategies for diagnostics, assessment, and therapeutics and their impact on respiratory therapists.

SERVICE LEARNING

■ SL 2 — Linked Service Learning

1 Unit

Degree Applicable, CSU

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

Links service learning with content-specific courses across the college curriculum. Allows students to explore interests or career objectives through community involvement and service. Requires arranged hours of community-based activity. Must be enrolled concurrently in a course with a service learning Link.

SIGN LANGUAGE, INTERPRETING

■ SIGN 101 — American Sign Language 1

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Fundamentals of American Sign Language. Preparation for visual/gestural communication followed by intensive work on comprehension skills; modeling of grammatical structures; general information about Deaf Culture.

■ SIGN 102 — American Sign Language 2

4 Units

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: SIGN 80 or SIGN 101 or equivalent fluency

Further study of fundamentals of American Sign Language focusing on comprehension skills, grammatical structures and practice in the expressive aspects of the language, as well as exposure to Deaf culture.

■ SIGN 103 — American Sign Language 3

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: SIGN 81 or SIGN 102 or equivalent fluency
Further study of American Sign Language focused on developing
comprehension skills, advanced grammatical structures with
continued emphasis on expressive skills in narrative. Aspects of
Deaf culture will be studied.

■ SIGN 104 — American Sign Language 4

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: SIGN 82A or SIGN 103 or equivalent fluency
Emphasis on expressive/conversational skills in American Sign
Language along with continued focus on grammatical and cultural
features.

■ SIGN 105 — American Sign Language 5

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.

■ SIGN 108 — Fingerspelling

2 Units

4 Units

Degree Applicable

(May be taken for Pass/No Pass only)

36 hours lecture

Prerequisite: SIGN 81 or SIGN 102

Skill development in receptive and expressive fingerspelling.

■ 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.

■ SIGN 202 — American Deaf Culture

I

e 3 Units Degree Applicable, CSU, UC

54 hours lecture

American Deaf cultural norms, values, mores and institutions.

■ SIGN 210 — American Sign Language Structure 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: SIGN 103

Linguistic structure of American Sign Language, including phonology, morphology and syntax. Sociolinguistic issues will also be discussed.

■ SIGN 220 — Translation: American Sign Language/English

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: SIGN 104

Corequisite: SIGN 210 (May have been taken previously.)

American Sign Language and English translation by comparing texts in both languages.

■ SIGN 223 — Principles of Interpreting

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: SIGN 103 and Eligibility for ENGL 1A

Aspects of interpreting theory and process including the history of sign language interpreting. Examines the interpreter's role and ethical standards.

■ SIGN 225 — Ethical Decision Making for Interpreters 2 Units Degree Applicable

36 hours lecture

Prerequisite: SIGN 223 and SIGN 231

Development of ethical decision-making skills through the analytical construct of the Demand/Control Schema (DC-S) for interpreting work. Includes professional work effectiveness and professional wellness.

■ SIGN 227 — Cognitive Processing for Interpreters 4 Units Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

54 hours lab

Prerequisite: SIGN 104 and Engl 1A

Corequisite: SIGN 223 (May have been taken previously)

Development of cognitive processing skills necessary for interpreting between American Sign Language (ASL) and English. Constructing and deconstructing meaning, memory, listening and attending will be covered. Includes memory building, restating, cloze, and listening exercises.

■ SIGN 231 — Interpreting

4 Units Degree Applicable

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

54 hours lecture

54 hours lab

Prerequisite: SPCH 1A and SIGN 227

Skill development in consecutive interpreting from American Sign Language (ASL) to English and English to ASL. Processing skills and task management will be emphasized.

■ SIGN 232 — Advanced Interpreting

4 Units
Degree Applicable

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

54 hours lecture

54 hours lab

Prerequisite: SIGN 231

Refines basic interpreting skills with emphasis on simultaneous interpreting. Intensive skill development in interpreting from English to American Sign Language (ASL) and ASL to English.

■ SIGN 239 — Practicum

1 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lab

Prerequisite: SIGN 88B or SIGN 232

Develops and hones interpreting skills in supervised interpreting situations.

■ SIGN 240 — Vocabulary Building for Interpreters 2 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

36 hours lecture

Prerequisite: SIGN 104

Vocabulary expansion in both ASL and English with the goal of improving interpretations between these two languages. The course will focus on context, semantics, and parts of speech in determining culturally appropriate vocabulary choices. Interpreting students will learn to apply their growing vocabularies to ASL-English interpretations.

■ SIGN 250 — Interpreting with Classifiers

1.5 Units

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.

■ SIGN 260 — Video Interpreting

1.5 Units Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

27 hours lab

Prerequisite: Sign 231

Video interpreting and skill development as a video interpreter. Includes video relay interpreting (VRS), video remote interpreting (VRI), technical components used in video interpreting, and ethical consideration of the video interpreter. Lab portion of the course will focus on skill development in video interpreting.

SOCIOLOGY

■ SOC 1 — Sociology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

A systematic study of human relations and social structures which emphasizes the interaction between personality, culture and society. Special consideration is given to an understanding of group behavior, personality formation, social organization, and social change.

■ SOC 1H — Sociology - Honors

3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

A systematic study of human relations and social structures which emphasizes the interaction between personality, culture and society. Special consideration is given to an understanding of group behavior, personality formation, social organization, and social change. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 1 and SOC 1H.

■ SOC 2 — Sociology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

The application of basic sociological principles and concepts to the study and understanding of social problems. Special emphasis on the analysis of social values, social organization, role, status and stress, and also on the study of controversial public issues that arise in contemporary American society. Students will be encouraged to evaluate and discuss both the theoretical and practical approaches to social problems. Individual student projects will be undertaken.

■ SOC 2H — Sociology - Honors

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

The application of basic sociological principles and concepts to the study and understanding of social problems. Special emphasis on the analysis of social values, social organization, role, status and stress, and also on the study of controversial public issues that arise in contemporary American society. Students will be encouraged to evaluate and discuss both the theoretical and practical approaches to social problems. Individual student projects will be undertaken. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 2 and SOC 2H.

■ SOC 4 — Introduction to Gerontology 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Characteristics, contributions, and problems of older persons. Emphasizes theoretical perspectives on the process of aging. Topics include gender, race, ethnicity, religion, stratification, and health care. Attention is given to gerontology as an academic discipline and a field of practice.

■ SOC 5 — Introduction to Criminology 3 Units

Degree Applicable, CSU, UC

54 hours lecture

A scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society.

■ SOC 5H — Introduction to Criminology - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

A scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinguency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 5 and SOC 5H.

■ SOC 7 — Sociology of Religion

3 Units

Degree Applicable, CSU, UC

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.

■ 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.

■ SOC 14H — Marriage and the Family - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

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. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 14 and SOC 14H.

■ SOC 15 — Child Development

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Theoretical aspects of physical, social, emotional and cognitive development from conception through adulthood. Requires observation of children.

■ SOC 20 — Sociology of Ethnic Relations

Degree Applicable, CSU, UC

54 hours lecture

Provides insight to the culture diversity that exists in the United States. An extensive study of four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) is provided with emphasis placed on historical experiences, contemporary circumstances and future trends. Origins and theories of stereotypes, prejudices and discrimination are explored along with an analysis of racial stratification.

■ SOC 20H — Sociology of Ethnic Relations - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Provides insight to the culture diversity that exists in the United States. An extensive study of four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) is provided with emphasis placed on historical experiences, contemporary circumstances and future trends. Origins and theories of stereotypes, prejudices and discrimination are explored along with an analysis of racial stratification. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 20 and SOC 20H.

■ SOC 36 — Asian American Communities

3 Units

Degree Applicable, CSU, UC

54 hours lecture

18 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.

■ SOC 91 — Service Learning for Sociology

1 Unit Degree Applicable, CSU

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

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.

■ 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.

■ SOC 99 — Special Projects in Sociology 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

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

SPANISH

■ SPAN 1 — Elementary Spanish

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Conversing, reading, and writing in Spanish at the elementary level. Includes essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to Hispanic culture.

■ SPAN 2 — Continuing Elementary Spanish 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: SPAN 1 or equivalent

Further development of conversational, reading and writing skills in Spanish with special emphasis on verbs, grammar and expansion of vocabulary. Further study of Hispanic culture.

■ SPAN 3 — Intermediate Spanish

4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: SPAN 2 or equivalent

Further development of communicative proficiency in Spanish. Further study and review of grammar. Increasing emphasis on reading and writing as tools in exploring Hispanic civilization.

■ SPAN 4 — Continuing Intermediate Spanish 4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: SPAN 3 or equivalent

Emphasis on increased proficiency in speaking, reading and writing Spanish. Review of grammar, increased vocabulary building. Readings and discussions on Hispanic cultural topics. Introduction to Hispanic literature.

■ SPAN 5 — Advanced Spanish

4 Units

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: SPAN 4 or equivalent

Emphasis is placed on increased proficiency in speaking, reading and writing Spanish. Cultural insights are developed through videos, movies and readings in Hispanic culture through different literary genres.

■ SPAN 6 — Continuing Advanced Spanish

panish 4 Units Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: SPAN 5 or equivalent

Advanced reading, discussing and writing in Spanish designed to provide further cultural insights into the Hispanic world through the study of cultural and literary readings. High level of proficiency in Spanish will be emphasized.

■ SPAN 11 — Spanish for the Spanish Speaking 4 Units Degree Applicable, CSU, UC

72 hours lecture

Provides Spanish-speaking students opportunity to improve skills in standard Spanish grammar and vocabulary and to broaden their understanding of Hispanic cultures. Focuses on developing vocabulary, improving orthography and the use of grammatical structures, both oral and written. Class instruction conducted in Spanish.

■ SPAN 12 — Continuing Spanish for the Spanish Speaking 4 Units Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: SPAN 11 or equivalent

Provides Spanish-speaking students with previous formal study of Spanish with further development and improvement of skills in standard Spanish and a broader understanding of Hispanic cultures. Culturally-based topics are the focus of readings and class discussions. Class instruction conducted in Spanish.

■ SPAN 25 — Spanish Literature

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: SPAN 4 or equivalent

Introduction to the literatures of Mexico, other Spanish-American countries and Spain. All reading and lectures are in Spanish.

■ SPAN 40 — Intermediate Spanish for Health Professionals

4 Units

Degree Applicable, CSU

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

72 hours lecture

Prerequisite: SPAN 2 or equivalent

Intermediate level Spanish for health care professionals emphasizing speaking, oral comprehension and cross-cultural communication within a health care setting. Includes the study of vocabulary, grammar, spoken and written language in context, and Hispanic culture in the U.S. especially as it relates to health care issues.

■ SPAN 53 — Conversational Spanish

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: SPAN 2 or equivalent

Development of intermediate Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context.

■ SPAN 54 — Continuing Conversational Spanish 3 Units Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: SPAN 53

Development of advanced Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context.

SPEECH

■ SPCH 1A — Public Speaking

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: Eligibility for ENGL 68

Study and apply rhetorical principles to research and analyze topics, write basic and advanced speech outlines, and deliver effective public speeches. Perform speaking and listening assignments that utilize effective verbal, vocal and physical communicative strategies, and critical/analytical techniques. Students may not receive credit for both SPCH 1A and SPCH 1AH.

■ SPCH 1AH — Public Speaking - Honors 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: Acceptance into the Honors Program

Study and apply rhetorical principles to research and analyze topics, write basic and advanced speech outlines, and deliver effective public speeches. Perform speaking and listening assignments that utilize effective verbal, vocal, and physical communicative strategies and critical/analytical techniques. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 1A and SPCH 1AH.

■ SPCH 1B — Intermediate Public Speaking

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: SPCH 1A or SPCH 1AH

Extemporaneous, impromptu, manuscript and memorized speaking focusing on organization, research and delivery skills. Includes skills to analyze, synthesize, criticize, and advocate ideas using inductive and deductive reasoning, distinguishing fact from opinion and avoiding argumentative fallacies.

■ SPCH 2 — Fundamentals of Communication 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Corequisite: ENGL 1A or ENGL 1AH (May have been taken previously.)

Fundamental theories and competencies in interpersonal, small group, public, and intercultural communication. Oral presentations are required.

■ SPCH 3 — Voice and Diction

3 Units

3 Units

Degree Applicable, CSU, UC

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

Improvement of the speaking voice and oral communication style, including proper use for control and projection of the voice, vocal expressiveness, articulation and pronunciation. Develops accuracy of sound production for standard American speech through use of the International Phonetic Alphabet. Emphasizes individual diagnosis and extensive oral practice.

■ SPCH 4 — Performance of Literature 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Theory, principles, and techniques of the performance of literature in solo and duo formats. Texts will include prose, poetry, drama, nonfiction and other forms. Appreciation of various genres of literature through textual analysis, oral reading, and evaluation. Practical training is given in critical reading, editing, and performance of poetry, prose, drama, essay, and experimental forms of performance text drawn from a diverse range of cultural viewpoints and voices.

■ 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.

■ 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 competence for more effective interactions with others in a diverse society. Students may not receive credit for both SPCH 7 and SPCH 7H.

■ SPCH 7H — Intercultural Communication - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Admittance into the Honors Program

Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication competence for more effective interactions with others in a diverse society. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 7 and SPCH 7H.

■ SPCH 8 — Professional and Organizational Speaking 4 Units Degree Applicable, CSU

72 hours lecture

Corequisite: ENGL 1A or ENGL 1AH (may have been taken previously)

Speech communication principles as employed in organizations, including decision making, leadership, conflict resolution and communication networks as well as substantial skills development in preparing and delivering oral presentations within professional contexts and in the workplace. Oral presentations are required.

■ SPCH 8H — Professional and Organizational Speaking 4 Units - Honors

Degree Applicable, CSU

72 hours lecture

Prerequisite: Acceptance into the Honors Program

Corequisite: ENGL 1A or ENGL 1AH (may have been taken previously)

Speech communication principles as employed in organizations, including decision making, leadership, conflict resolution and communication networks as well as substantial skills development in preparing and delivering oral presentations within professional contexts and in the workplace. Oral presentations are required. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 8 and SPCH 8H.

■ SPCH 10 — Speech Enhancement

1 Unit Degree Applicable, CSU

18 hours lecture

Coreauisite: SPCH 1A

Provides hands-on research, outlining, and anxiety reduction activities designed to enhance student success as a linked course with the basic public speaking course.

■ SPCH 15 — Forensics: Fundamentals of Contest 2 Units Speech and Debate

Degree Applicable, CSU

(May be taken four times for credit)

18 hours lecture

54 hours lab

Advisory: SPCH 1A or SPCH 1AH

Participation in intercollegiate speech tournaments through Mt. SAC Forensics Team. Instructions in preparatory procedures for these tournaments, including techniques in persuasive oratory, extempore, interpretation, expository, impromptu, discussion, speech analysis, debate. Student has option to choose area of interest and also an opportunity to participate in public community programs. Attendance required at one competition. Students who repeat this course will improve skills through further instruction and practice.

■ SPCH 16 — Forensics: Individual Event Team 3 Units

Degree Applicable, CSU

(May be taken four times for credit)

167 hours lab

Prerequisite: Admission by audition.

Speech performance skills and participation in multiple intercollegiate speaking competitions, festivals, and/or public events as members of the Mt. SAC Forensics Team. Emphasis is on individual speaking events, including public address and oral interpretation of literature along with receiving critiques from judges and utilizing directed self-study. Students who repeat this course will improve skills through further instruction and practice. Off-campus public or tournament performance required.

■ SPCH 17 — Forensics: Debate Team

3 Units Degree Applicable, CSU

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(May be taken four times for credit)

167 hours lab

Prerequisite: SPCH 15 or SPCH 20

Speaking and argumentation skills and participation in multiple inter-collegiate speaking competitions, festivals, and/or public events as members of the Mt. SAC Forensics Team. Emphasis is on parliamentary debate and limited preparation speaking. Students who repeat this course will improve skills through further instruction and practice. Off-campus public or tournament performance required.

■ SPCH 18 — Forensics: Readers Theater Team 3 Units Degree Applicable, CSU

(May be taken four times for credit)

167 hours lab

Prerequisite: SPCH 15

Speech performance skills and participation in multiple intercollegiate speaking competitions, festivals, and/or public events as members of the Mt. SAC Forensics Team. Students will perform in one or more reader?s theater pieces. Students who repeat this course will improve skills through further instruction and practice. Off-campus public or tournament performance required.

■ SPCH 20 — Argumentation and Debate 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: SPCH 1A or SPCH 1AH

Rhetorical principles of argumentation in both theory and practice. Emphasis is given to rational discussion and reasoned advocacy.

■ SPCH 20H — Argumentation and Debate - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: SPCH 1A or SPCH 1AH and acceptance into the Honors Program

Equips the student to engage in rational discussion and reasoned advocacy. Emphasis is given to rhetorical principles of argumentation, both theory and practice. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 20 and SPCH 20H.

■ SPCH 26 — Interpersonal Communication 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Principles of verbal and nonverbal transactions that occur in everyday face-to-face communication. Study of theory and research findings and their application to communication in professional and personal relationships.

■ SPCH 26H — Interpersonal Communication - Honors 3 Units Degree Applicable, CSU, UC

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 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH (May have been taken previ-

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

Degree Applicable, CSU

2 Units

(May be taken four times for credit)

36 hours lecture

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

STUDY TECHNIQUES

■ STDY 80 — Studying and Learning: Foundations 3 Units for Success

Not Degree Applicable

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

54 hours lecture

Advisory: Eliaibility for ENGL 67 or READ 80

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.

■ STDY 85A — Test-Taking and Stress Management 1 Unit Not Degree Applicable

18 hours lecture

Advisory: Eliaibility for ENGL 67

A single purpose course designed to support learning in either an academic field or in a vocation. Provides support in understanding how the brain functions and applying that knowledge to testtaking and stress management strategies.

■ STDY 85B — Notetaking and Listening

1 Unit

Not Degree Applicable

18 hours lecture

Advisory: Eligibility for ENGL 67

A single purpose course designed to support learning in either an academic field or in a vocation. Provides awareness of how the brain functions and applications of that knowledge to notetaking and effective listening strategies.

■ STDY 85C — Study Techniques and Skills for 1 Unit Online Learning

Not Degree Applicable

18 hours lecture

Advisory: Eligibility for ENGL 67

A single purpose course designed to support learning in either an academic field or in a vocation. Focuses on skills for successful online learning and prepares students to take online classes and learn about effective online communication tools.

■ STDY 85D — Goal Setting and Time Management 1 Unit

Not Degree Applicable

18 hours lecture

Advisory: Eligibility for ENGL 67

A single purpose course designed to support learning in either an academic field or in a vocation. Provides support in understanding how the brain functions and applying that knowledge to goal setting and time management strategies.

■ STDY 85E — Memory and Concentration

1 Unit

Not Degree Applicable

18 hours lecture

Advisory: Eligibility for ENGL 67

A single purpose course designed to support learning in either an academic field or in a vocation. Provides support in understanding how the brain functions and applying that knowledge to memory and concentration strategies.

■ STDY 100 — Student Achievement and Fundamentals 3 Units of Learning

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68 or READ 100

Designed to increase student success in transfer college level courses. Provides a systematic approach to advanced study techniques for academic success in higher education. Develops the steps leading to successful transfer/transition to four-year institutions or careers.

SURVEYING

■ SURV 1A — Surveying

3 Units

Degree Applicable, CSU, UC

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

36 hours lecture

54 hours lab

Prereauisite: MATH 150

Surveying fundamentals; use and care of surveying instruments including steel tape, engineer's level, theodolite and total station: horizontal and vertical measurements; layout, traverse, area computations; analysis and adjustments of systematic and random errors; stadia surveying; mapping.

■ SURV 1B — Surveying

3 Units

Degree Applicable, CSU, UC

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

36 hours lecture

54 hours lab

Prerequisite: SURV 1A

Land surveying including coordinate geometry, missing data, construction surveying, volumes, property surveying, control surveying, California Coordinate System, and horizontal and vertical curves. Introduces photogrammetric methods, 3-D laser scanning, Global Positioning System (GPS), Geographic Information System (GIS), mapping project, method of least squares, and land survey descriptions. Field trips are required.

TECHNOLOGY-RELATED COURSES

■ TECH 60 — Customer Relations for the Technician

Degree Applicable

1 Unit

3 Units

(May be taken for Pass/No Pass only)

18 hours lecture

Customer relations (soft skills) for the technician including benefits of knowing and using effective customer contact tools, proper customer interactions, ethics, and maintaining customer satisfaction.

THEATER ARTS

■ THTR 9 — Introduction to Theatre Arts

Degree Applicable, CSU, UC

54 hours lecture

Aesthetic, artistic, technical, and business aspects of theater.

■ THTR 10 — History of Theatre Arts

3 Units
Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Dramatic literature and the development of dramatic art. Representative plays and the history and development of the living stage will be stressed.

■ THTR 11 — Principles of Acting I

3 Units 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.

■ 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.

■ THTR 14 — Stagecraft

3 Units
Degree Applicable, CSU, UC

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.

■ THTR 15 — Play Rehearsal and Performance

formance 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)

Planning, preparation, and presentation of college-sponsored dramatic presentations. Emphasis on acting with some technical theater assignments. Students who repeat this course will improve skills through further instruction and practice. Attendance at performances is required.

■ THTR 16 — Theatrical Make-Up

2.5 Units

Degree Applicable, CSU, UC

36 hours lecture

36 hours lab

An introduction to the theory and practice of makeup for the stage. Emphasis will be on the design and application of straight, stylized, character, and other make-up techniques.

■ THTR 17 — Acting for the Camera

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: 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

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)

hours lab

Participation in the technical preparation and operation of productions presented to the community. The student will be involved in one or more of the following areas: stage scenery construction, stage lighting set up, property construction, stage sound set up, costume construction and make-up. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production. Students who repeat this course will improve skills through further instruction and practice.

■ THTR 19 — Theatrical Costuming

3 Units

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Theatrical costuming design and construction. Includes the study of costume history, principles of costume design, fibers and textiles, basic costume construction, and design rendering techniques.

Costume crew assignments for major productions will provide practical instruction in actual performance demands on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television, and reenactments.

■ THTR 25 — Theatrical Playwriting

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 1A

Playwriting for the stage. Students will create and critique their own plays, as well as study and critique plays from established authors and productions. Includes basics of linear, episodic, 'A'-'B' and ritual structures.

■ THTR 60 — Children's Theater

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

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

108 hours lab

Practice of children's theater through the creation and performance of new work for young audiences. Includes experience in story development, design, directing and performance culminating in the practical application of a series of public presentations. 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)

18 hours lecture

54 hours lab

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

TRANSPORTATION

■ TRAN 17 — Air Transportation

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23

A survey course of the air transportation industry. Topics include a historical perspective, regulators and associations, general aviation industry, airline industry, economic characteristics of the airlines, airline management, air cargo, airline labor relations, international aviation, and aviation career planning.

■ TRAN 19 — Air Law and Regulation

2 Units Degree Applicable

36 hours lecture

Develops a basic understanding of the legal environment surrounding aviation, the fundamentals of the U.S. legal system, and the impact of the U.S. constitution on aviation activities. Topics include criminal law for aviators and air carriers, tort liability and air commerce, government regulations, contract and commercial law in aviation related businesses, property law for aircraft owners and airport operators, labor and employment law in aviation industries, international law and treaties that affect aviation.

TUTOR TRAINING

■ TUTR 10A — Introduction to Tutoring

1 Unit

Not Degree Applicable

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

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population.

■ TUTR 10B — Tutoring in the English Language 1 U

Not Degree Applicable

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

18 hours lecture

Prerequisite: Eligibility for ENGL 1A

Tutoring in the English language with an emphasis on approaches to working with students on written drafts and addressing the needs of non-native speakers.

■ TUTR 10C — Tutoring as a Supplemental Instructor 1 Unit

Degree Applicable

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

18 hours lecture

Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.

■ TUTR 10D — Tutoring in Mathematics

Not Degree Applicable

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

Prerequisite: MATH 71 or higher

Tutoring in mathematics with an emphasis on strategies to promote active learning using manipulatives and dealing with specific obstacles in developmental algebra.

■ TUTR 10R — Tutoring in Reading

1 Unit

Not Degree Applicable

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

18 hours lecture

Advisory: Eligibility for READ 100

Introduction to tutoring reading. Includes methods of assessment, management of sessions, and application of strategic reading processes. This course prepares students to become reading tutors for all READ students.

WATER TECHNOLOGY

■ WATR 60 — Introduction to Water Systems

3 Units

Degree Applicable

54 hours lecture

Water sources, hydrological cycle, pre-treatment, water mathematics, basic water chemistry, treatment plant processes, safety, disinfection, corrosion, bacteriology and the public health aspects of potable water. Distribution systems, wells, valves and pumps. Prepares the student for Grade I and II State Water Treatment Operator Certification and Grade I AWWA Water Distribution Operator Certification.

■ WATR 61 — Water Treatment

3 Units
Degree Applicable

54 hours lecture

Advisory: WATR 60 taken prior

Emphasizes public health aspects of potable water supply, wells, process control procedures, chlorination systems, water softening, safety, review laboratory procedures, laboratory techniques and equipment, advanced water mathematics and State Health Department Title 22, Water Quality Standards. Prepares students for the Grade II and III State Water Treatment Operator Certification.

■ WATR 62 — Water Distribution

3 Units

Degree Applicable

54 hours lecture

Advisory: WATR 60 taken prior

Water distribution systems operation, administration, safety, maintenance, introduction to Cross-connection Control Title 17. Prepares student for Grade II and III AWWA Distribution Operator Certification.

■ WATR 63 — Cross Connection Control - Certified Tester 3 Units Degree Applicable

54 hours lecture

Advisory: WATR 60 taken prior or concurrently

Offers knowledge necessary to understand the operation of and testing procedures for backflow prevention assemblies. Analyzes Title 17 of the California Administrative Code and Chapter 6 of the Uniform Plumbing Code as they relate to cross-connection control. Prepares students for County Health Department and AWWA certification as Backflow Prevention Device Testers.

■ WATR 64 — Cross Connection Control - Certified Specialist

3 Units

Degree Applicable

54 hours lecture

Advisory: WATR 60 taken prior

Offers knowledge necessary to apply the principles of backflow prevention, as outlined in Title 17 of the California Administrative Code, to the administration of a cross-connection control program. Also teaches a student about the use of recycled water as outlined in Title 22 of the California Administrative Code. Prepares students who are otherwise qualified to take the AWWA Cross-Connection Specialist Certification Exam.

■ WATR 65 — Water Hydraulics and Instrumentation 3 Units Degree Applicable

54 hours lecture

Advisory: WATR 60 taken prior

Practical water supply hydraulics and instrumentation, with emphasis on distribution system capacity, hydraulic analysis, pumping analysis, customer service lines and meters, automation, instrumentation and control, system maintenance and records.

WELDING

■ WELD 30 — Metal Sculpture

2 Units

Degree Applicable, CSU

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

18 hours lecture

54 hours lab

Welding processes used in the metal sculpting industry to create three-dimensional art forms. Covers design, pre-construction analysis, and cost estimates for projects. Includes use of equipment for oxyfuel welding, gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), shielded metal arc welding (SMAW), and flux-cored arc welding (FCAW). Includes demonstrations and exercises in welding as it relates to the art industry.

■ WELD 40 — Introduction to Welding

2 Units Degree Applicable, CSU

18 hours lecture

54 hours lab

Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries.

■ WELD 50 — Oxyacetylene Welding

2 Units Degree Applicable

18 hours lecture

54 hours lab

Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices.

■ WELD 51 — Basic Electric Arc Welding

2 Units

Degree Applicable

18 hours lecture

54 hours lab

Advisory: WELD 50

Basic electric arc welding, weld symbols, standard electrode and alloy electrode selection. American Welding Society (A.W.S.) procedure for certification.

■ WELD 53A — Welding Metallurgy

3 Units

Degree Applicable, CSU

54 hours lecture

Designed for students seeking a career in welding and welding inspection. Covers structure of matter, chemical, physical, and mechanical properties of metals, principles of alloying, solid state diffusion, plastic deformation, and heat treatment.

■ WELD 60 — Print Reading and Computations for Welders 3 Units Degree Applicable

54 hours lecture

Reading prints and performing computations for welding fabrication operations. Interpreting and visualizing prints, title blocks, welding symbols, specifications, notes, and bills of materials. Computations necessary to calculate materials, costs, sizes, and fractional, decimal and metric conversions.

■ WELD 70A — Beginning Arc Welding

3 Units

Degree Applicable

18 hours lecture

108 hours lab

Develops manipulative skills and techniques for the beginning student welder on the shield metal arc (SMAW) and the flux cored arc (FCAW) welding processes in the flat and horizontal positions using AC and DC welding currents on carbon steel.

■ WELD 70B — Intermediate Arc Welding

3 Units Degree Applicable

18 hours lecture

108 hours lab

Advisory: WELD 70A taken prior

A continuation of Beginning Arc Welding (WELD 70A), Emphasis is on welding high alloy steel with both SMAW and FCAW processes in the vertical and overhead positions. Designed to refine previously acquired welding skills.

■ WELD 70C — Certification for Welders

3 Units

Degree Applicable

18 hours lecture

108 hours lab

Advisory: WELD 70A taken prior

Study of building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American Welding Society's (AWS) D1.1 and D1.3.

■ WELD 80 — Construction Fabrication and Welding 3 Units Degree Applicable

18 hours lecture

108 hours lab

Advisory: WELD 40, WELD 51, WELD 70A

Theory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards. Includes project models such as ornamental iron gates and fences and material storage components.

■ WELD 81 — Pipe and Tube Welding

3 Units Degree Applicable

18 hours lecture

108 hours lab

Advisory: WELD 70B, WELD 70C

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.

■ WELD 90A — Gas Tungsten Arc Welding 3 Units

Degree Applicable, CSU

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

108 hours lab

Advisory: WELD 70B taken prior

Advanced level class in Gas Tungsten Arc Welding (GTAW, also known as TIG) of steel, aluminum, CRES and exotic metals, All position welds with many surfaces and transitions.

■ WELD 90B — Semiautomatic Arc Welding Process 3 Units

Degree Applicable, CSU

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

18 hours lecture

108 hours lab

Advisory: WELD 70B taken prior

An integrated review of Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thickness will be covered.

■ WELD 91 — Automotive Welding, Cutting and Modification

1 Unit

Degree Applicable

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

18 hours lecture

Coreauisite: WELD 91L

Advisory: WELD 70B taken prior

Welding and cutting metals used in the automotive industry. Gas Metal Arc (GMAW/MIG), Gas Tungsten Arc (GTAW/TIG), Plasma Arc Cutting (PAC), and Oxy-fuel Cutting (OFC) welding will be covered.

■ WELD 91L — Automotive Welding, Cutting and 2 Units **Modification Lab**

Degree Applicable

(May be taken four times for credit)

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

108 hours lab

Corequisite: WELD 91 (may have been taken previously)

Advisorv: WELD 70B

Practical lab applications for sheet metal forming, metal inert gas (MIG), tungsten inert gas (TIG), resistance spot (RSW), and Oxy-fuel welding, plasma arc cutting (PAC) and Oxy-fuel cutting. Includes design, fabrication and assembly of automotive suspension and chassis components.

■ WELD 96 — Work Experience in Welding

1 to 4 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Compliance with work experience regulations as designated in the college catalog.

Advisory: WELD 70B

Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further instruction and practice.

SECTION ELEVEN

Continuing Education



Committed to Student Success

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 the Bursar's Office in Building 9A. 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 213 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.

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 non-credit 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.**

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

Certificates of Competency GED Preparation......215 **Certificates in Occupational Training**

Business Management218	Ω
Business Management — Level 1	
-	
Business Management – Level 2	
Business Management – Level 3	
Human Resource Management	
International Business — Level 1	
International Business — Level 2	
Retail Management – Level 1	9
Retail Management – Level 2	9
Retail Management – Level 3	9
Small Business Management – Level 1	9
Small Business Management – Level 2	9
Small Business Management – Level 3	
Electronics220	0
Computer and Networking Technology — Level 1 220	0
Computer Systems Technology220	0
Electronic Assembly and Fabrication	0
Electronic Systems Technology — Level 1	0
Electronic Systems Technology — Level 2	
Electronic Technology	
Electronics and Computer-Engineering Technology	0
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Health Careers221	
Certified Nursing Assistant	

NONCREDIT LIST OF CERTIFICATES

Interior Design	22
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Office Computer Applications	
Photographics	
Photography	
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Welding	
Licensed Welder	
Welder with Concentration in Automotive Welding,	
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Welder with Concentration in Gas Tungsten ARC Welding	
Welder with Concentration in Semiautomatic	
ARC Welding	223
Fee Based Certificate Program	
Bookkeeping Program	
Makeup Artistry	
Medical Insurance Billing Specialist	
Phlebotomy Technician I	
RN/LVN Re-Entry Into Practice	
,	

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.

CERTIFICATES OF COMPETENCY

Basic Career Readiness

Basic Skills

Career Development

English as a Second Language

ESL – Beginning Level

ESL - Intermediate Level

ESL - Advanced Level

GED Preparation

alb riepaiation

Secondary Education

Basic Career Readiness #30805

This certificate provides courses that will improve the entry level basic skills needed for employment. Courses will also offer career development skills including personal career assessment, basic interview skills, and job search techniques that students can apply to current and future employment. Students will increase basic skills in reading comprehension, writing, math and basic computer literacy. Elective courses will provide students with an orientation to college enrollment procedures and assessment of placement tests. Note: Students are required to take all 3 core courses. Elective courses are optional to further prepare the student for career success. For more information, please call (909) 274-4845.

Certificate Requirements:

Course ID Course Title Required Courses:

BS ABE01 Career Information and Guidance

BS ABE02 Adult Basic Education

BS LRN06 Personal Computer Applications

Elective Courses:

BS ABE04 Guidance and Orientation to Special

Programs

BS ABE05 Career Development

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 ritte
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

Career development provides students with information and guidance on college opportunities, careers and life planning. Students can apply skills gained to their current employment and personal lives and will improve their opportunities to advance in their careers or transition into a new career. This sequence of courses is offered days and evenings to accommodate adults with alternating schedules. For more information, please call (909) 274-4845.

Certificate Requirements:

	1
Course ID	Course Title
BS ABE01	Career Information and Guidance
BS ABE02	Adult Basic Education
BS ABE03	Adult Basic Education
	 Leadership Development
BS ABE04	Guidance and Orientation
	to Special Programs
BS ABE05	Career Development
BS ABE06	Basic Skills Foundation
BS ABE07	Re-Entry Work Skills Needed for Today's
	Workforce
BS CNSL5	Career/Life Planning

English as a Second Language #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
FSI PIVI 1	FSI - Pre-l evel

	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
	Certificate L	Electives:
s	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

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 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.

for Health Professionals

Courses are offered all year long, including winter and summer intersessions. Classes are offered days, evenings and weekends. For more information, please call (909) 275-5235.

Certificate Requirements:

Course ID Course Title

Required Courses:

ESL PLVL1 ESL – Pre-Level 1
ESL LVL1 ESL – Level 1
ESL LVL2 ESL – Level 2

Certificate Electives:

ESL SPKA ESL — Speaking A
ESL WRTA ESL Writing A
ESL LANG2 English for Special III

ESL – Intermediate Level #30374

ESL students are placed within the following sequence of intermediate courses according to their English abilities. Students progress through this sequence based on individual need transitioning into advanced 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) 275-5235.

Certificate Requirements:

Course ID Course Title Required Courses:

ESL LVL3 ESL — Level 3 ESL LVL4 ESL — Level 4

Elective Courses:

ESL SPKB ESL — Speaking B ESL WRTB ESL Writing B

ESL LANG2 ESL Computer and Language Skills Lab

ESL - Advanced Level #30376

ESL students are placed within the following sequence of advanced courses according to their English abilities. Students progress through this sequence based on individual need transitioning 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) 275-5235.

Certificate Requirements:

Course ID Course Title Required Courses:

ESL LVL5 ESL – Level 6

ESL LVL6 ESL — Level 6

Elective Courses:

ESL SPKC ESL — Speaking C ESL WRTC ESL Writing C

ESL LANG2 Computer and Language Skills Lab

ESL LANG3 English for Special Uses ESL TOEFL TOEFL Preparation

ESL VHLTH ESL for Health Professionals

GED Preparation

#30778

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

Course is	course ritie	
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:

	Course ID	Course Title
	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 HLTH	High School Health
BSHS KEY	High School Typing/Keyboarding
BSHS LSC	High School Life Science
BSHS MUSC	High School Music Appreciation
BSHS PHSC	High School Physical Science
BSHS PLNG	High School Planning and Guidance
BSHS PREA	High School Pre-Algebra
BSHS PSY	High School Psychology
BSHS SSK	High School Study Skills
BSHS SOC	High School Sociology
BSHS SPN1	High School Spanish 1
BSHS SPN2	High School Spanish 2
BSHS USHS	High School United States History
BSHS WHS	High School World History
BSHS WREX	High School Expository Writing
	OCCUPATIONAL TRAINING

OCCUPATIONAL TRAINING CERTIFICATES OF COMPLETION

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 Continuing, or state licensing mandates and/or certification. However, if a course needed for certificate completion is not offered in a timely man-

ner, the course may be taken for credit and applied to the noncredit certificate.

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 feebased Certificate Programs. These include:

- Bookkeeping Preparation
- CPR and First Aid
- Makeup Artistry
- Medical Insurance Billing Specialist
- Phlebotomy Technician
- RN Re-Entry into Practice

Specific certificate content and more information can be found in the Continuing Education 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
- Satisfactorily complete coursework, papers and projects, take and pass mid-terms and final with the equivalent of a "C" grade as outlined by each individual course syllabus
- When all courses are completed, submit a request to the Continuing Education Division Office, building 40.

If any courses for a noncredit certificate program have been taken for college credit, students must contact the Continuing Education Division office, (909) 274-4220, for instructions.

Certificate criteria will be verified by 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 Continuing Education registration area, Building 40. 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.

Noncredit Occupational Training Certificates of Completion are available in the following programs:

Accounting:

Bookkeeping Computerized

Payroll

Agricultural Sciences:

Floral Design

Horse Ranch Management

Interior Landscaping

Landscape and Park Maintenance

Landscape Design and Construction

Landscape Equipment Technology

Landscape Irrigation

Livestock Management

Nursery Management

Park Management

Pet Science

Sports Turf Management

Tree Care and Maintenance

Business Management:

Business Management – Level 1

Business Management – Level 2

Business Management – Level 3

Human Resource Management

International Business – Level 1

International Business – Level 2

Retail Management – Level 1

Retail Management – Level 2

Retail Management – Level 3

Small Business Management – Level 1 Small Business Management – Level 2 Small Business Management – Level 3

Electronics:

Computer and Networking Technology — Level 1 Computer Systems Technology

Electronic Assembly and Fabrication

Electronic Systems Technology — Level 1

Electronic Systems Technology — Level 2

Electronic Technology

Electronics and Computer-Engineering Technology

Flectronics Communications

Industrial Electronics

Interior Design:

Interior Design - Level 1

Manufacturing Technology:

MasterCAM

Office Technology:

Administrative Assistant - Level 1 Administrative Assistant – Level 2

Data Entry

Office Computer Applications

Tutoring:

Tutor Training

Photographics:

Computer Graphics Design / Photography Photography

Welding Technology:

Welding

Licensed Welder

Welder with Concentration in Automotive Welding,

Cutting and Modification

Welder with Concentration in Gas Tungsten

ARC Welding

Welder with Concentration in Semiautomatic ARC Welding

Fee-Based Certificate Programs:

Certificate Program in Bookkeeping

Makeup Artistry

Medical Insurance Billing Specialist

Phlebotomy

RN/LVN Re-Entry into Practice

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
VOC BA07	Principles of Accounting — Financial, <u>or</u>
VOC BA72	Bookkeeping — Accounting
VOC BA53	Ten-Key Calculations
VOC B005	Business English, <u>or</u>
VOC 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

PLUS the following courses:

VOC CSB31

Course ID	Course Title
VOC BA75	Using Microcomputers in Financial
	Accounting
VOC BA76	Using Microcomputers in Managerial
	Accounting
VOC CSB15	Microcomputer Applications
	VOC BA75 VOC BA76

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 journals/ledgers.

Certificate Requirements:

Completion of Accounting — Bookkeeping Certificate

PLUS the following courses:

Course ID	Course Title
VOC BA70	Payroll and Tax Accounting
VOC BS75	Using Microcomputers in Financial
	Accounting
	<u>and</u>
VOC BA76	Using Microcomputers in Managerial
	Accounting

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.

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 or
VOC AGL18	Horse Ranch Management
VOC AGL19	Horse Hoof Care
VOC AGL96	Animal Sanitation and Disease Control
VOC AGL97	Artificial Insemination of Livestock

Interior Landscaping #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
	Installation
VOC AGR64	Landscape Irrigation — Drip and Low
	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
VOC AGR01	Horticultural Science
VOC AGR24	Integrated Pest Management
VOC AGR29	Ornamental Plants — Herbaceous
VOC AGR30	Ornamental Plants — Trees and Woody Shrubs
VOC AGR39	Turf Grass Production and Management
VOC AGR40	Sports Turf Management
VOC AGR51	Tractor and Landscape Equipment Operations
VOC AGR62	Landscape Irrigation — Design and Installation
VOC AGR63	Landscape Irrigation System Management
VOC AGR71	Landscape Construction 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 ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR13	Landscape Design
VOC AGR29	Ornamental Plants — Herbaceous
VOC AGR30	Ornamental Plants – Trees and Woody
	Shrubs
VOC AGR50	Soil Science and Management
VOC AGR51	Tractor and Landscape Equipment
	Operations
VOC AGR62	Landscape Irrigation — Design and
	Installation
VOC AGR71	Landscape Construction Fundamentals
VOC AGR72	Landscape Hardscape Applications
VOC AGR73	Landscape Laws, Contracting
	and Estimating

Landscape Equipment Technology

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 Reauirements:

Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR51	Tractor and Landscape Equipment
	Operations
VOC AGR52	Hydraulics
VOC AGR53	Small Engine Repair I
VOC AGR55	Diesel Engine Repair
VOC AGR56	Engine Diagnostics
VOC AGR57	Power Train Repair
VOC AGR71	Landscape Construction Fundamentals
VOC AGR72	Landscape Hardscape Applications

Landscape Irrigation #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 ID	Course little
VOC AGR01	Horticultural Science
VOC AGR13	Landscape Design
VOC AGR39	Turf Grass Production and Managemen
VOC AGR50	Soil Science and Management
VOC AGR51	Tractor and Landscape Equipment
	Operations
VOC AGR62	Landscape Irrigation — Design and
	Installation
VOC AGR63	Landscape Irrigation System
	Management
VOC AGR64	Landscape Irrigation — Drip and Low
	Volume
VOC AGR71	Landscape Construction Fundamentals
	•

Livestock Management #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 Reauirements:

Course ID	Course Title
VOC AGG01	Food Production, Land Use and Politics
	 a Global Perspective
VOC AGN01	Animal Science
VOC AGN02	Animal Nutrition
VOC AGN94	Animal Breeding
VOC AGL14	Swine Production
VOC AGL16	Horse Production
VOC AGL17	Sheep Production
VOC AGL30	Beef Production
VOC AGL34	Livestock Judging and Selection
VOC AGL96	Animal Sanitation and Disease Control
Plus select	2 courses from the following:
VOC AGR71	Landscape Construction Fundamentals
VOC BM20	Principles of Business
VOC BM66	Small Business Management
VOC BS35	Professional Selling
VOC BS36	Principles of Marketing
	VOC AGG01 VOC AGN01 VOC AGN02 VOC AGN94 VOC AGL14 VOC AGL16 VOC AGL30 VOC AGL30 VOC AGL34 VOC AGL96 Plus select VOC AGR71 VOC BM20 VOC BM66 VOC BS35

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
	Shrubs
VOC AGR32	Landscaping and Nursery Management

Continuing Education

VOC AGR39	Turf Grass Production and Management
VOC AGR62	Landscape Irrigation — Design and
	Installation
VOC AGR64	Landscape Irrigation — Drip and Low

Volume

Park Management #24374

This certificate is designed to enable students to prepare for a career in park management, and provides students with hands-on experience, designed to give them a combination of practical skills and technical knowledge.

Certificate Requirements:

Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR04	Park Management
VOC AGR05	Park Facilities
VOC AGR24	Integrated Pest Management
VOC AGR30	Ornamental Plants — Trees and Woody
	Shrubs
VOC AGR39	Turf Grass Production and Management
VOC AGR51	Tractor and Landscape Equipment
	Operations
VOC AGR62	Landscape Irrigation — Design and
	Installation
VOC AGR63	Landscape Irrigation System
	Management
VOC AGR75	Urban Arboriculture

Pet Science #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 Reauirements:

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	
	Shrubs	
VOC AGR39	Turf Grass Production and Management	
VOC AGR40	Sports Turf Management	
VOC AGR50	Soil Science and Management	
VOC AGR51	Tractor and Landscape Equipment	
	Operations	
VOC AGR62	Landscape Irrigation — Design and	
	Installation	
VOC AGR63	Landscape Irrigation Systems	
	Management	

Tree Care and Maintenance #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
	Shrubs

VOC AGR32	Landscape and Nursery Management
VOC AGR50	Soil Science and Management
VOC AGR51	Tractor and Landscape Equipment
	Operations
VOC AGR53	Small Engine Repair 1
VOC AGR75	Urban Aboriculture

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

Course is	course ritie
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 Ruciness Management Level I DITIS

completion of business Management — Lever 17 Los		
Course ID	Course Title	
VOC BM60	Human Relations in Business	
VOC BM62	Human Resource Management	
VOC CSB15	Microcomputer Applications	

Business Management - Level 3

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 – Levels 1 and 2

PLUS the following courses:

VOC BA07	Principles of Accounting — Financial
VOC BM10	Principles of Continuous Quality
	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.

Course Title
Principles of Business
Business Organization and Management
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 courses:

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Course ID	Course Title	
VOC BM61	Business Organization and Management	
VOC BM66	Small Business Management	

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 B025	Business Communications
VOC CSB15	Microcomputer Applications
VOC FSH62	Retail Store Management
	and Merchandising
	<u>or</u>
VOC BS50	Retail Store Management
	and 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:

Course ID Course Title

Completion of Retail Management — Level 1 Certificate

PLUS the following courses:

AOC RATT	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:

Course ID Course Title

Completion of Retail Management Levels 1 and 2

PLUS the following courses:

VOC BA07	Principles of Accounting — Financial
VOC BM60	Human Relations in Business
VOC B026	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 courses:

Course ID	Course Title
VOC BM60	Human Relations in Business
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 of management strategies and practices which will enable them to prosper in an ever-changing small business environment. Computer skills applicable to small business will be developed. Students will have a strategic perspective across all small business functions. Students will acquire the skills and abilities necessary to build a successful business career.

Certificate Requirements:

Completion of Small Business Management — Levels 1 and 2

PLUS the following courses:

Course ID	Course Title
VOC BA07	Principles of Accounting — Financial
VOC BM10	Principles of Continuous Quality
	Improvement (CQI)
VOC CSB15	Microcomputer Applications

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 Requirements:

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	Microcontroller Systems
VOCTCH 60	Customer Relations/Technician

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)
	or
VOC EST50	Electrical Fundamentals
	for Cable Installations
VOC EL61	Electronic Assembly and Fabrication
VOC EL62	Advanced Surface Mount Assembly
	and Rework

Electronic Systems Technology

Level 1

#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.

Course ID Course Title

Course in	Course ritte
VOC EST50	Electrical Fundamentals for Cable
	Installations
VOC EST52	Fabrication Techniques for Cable
	Installations
VOC EST54	Cabling and Wiring Standards
VOC EL11	Technical Applications
	in Microcomputers
	<u>or</u>
VOC CSB15	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 Requirements:

Completion of Electronic Systems Technology Level 1 Certificate

PLUS the following courses:

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Electronics Technology #24073

and Rework

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 Requirements:

cer timeate negati ements.	
Course ID	Course Title
VOC EL11	Technical Applications in Microcomputers
VOC EL12	Computer Simulations/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
VOCTCH60	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

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	Microcontroller Systems
VOCTCH60	Customer Relations for the Technician
Recommend	ded Electives:
VOC FDT11	Technical Engineering Drawing I

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:

eer errreate r	icquirements.
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 EL54A	Industrial Electronics
VOC EL54B	Industrial Electronic Systems
VOC EL56	Digital Electronics
VOC EL61	Electronics Assembly and Fabrication
VOC TCH60	Customer Relations for the Technician

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 HTH 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.

INTERIOR DESIGN

Interior Design – Level 1 #31012

The primary purpose of this certificate is to provide a foundation for further training in careers including Interior Design, furnishings and maintenance; Interior Decorating; and Environmental Interior Design & Architecture.

Certificate Requirements

Certificate Requirements:		
Course ID	Course Title	
VOC ID10	Introduction to Interior Design	
VOC ID12	Materials and products for Interior	
	Design	
VOC ID14	History of furniture and Decorative Arts	

MANUFACTURING TECHNOLOGY

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 little
VOC MF11	Manufacturing Processes I
VOC MF38	MasterCAM I
VOC MF38B	Advanced MasterCAM
VOC MF85	Manual CNC Operations

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
V0C CS11	Computer Keyboarding 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 Administrative Assistant — Level I Certificate

PLUS the following courses:

Course ID Course Title

VOC B025	Business Communications
VOC CSB31	Microsoft Word

Office Computer Applications #24410

This certificate in Office Computer Applications is customized to meet the needs of the entry-level adult student or professional, who is seeking to acquire an array of office computer skills required in a computerized office environment.

Certificate kequirements:		
Course Title		
Basic Computing — Level 1		
Basic Computing — Level 2		
Basic Computing — Level 3		
Internet Research — An Introduction		
Creative Computing		

PHOTOGRAPHICS

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 Requirements:

Course ID	Course Title
VOC GRP10	Photshop Imagery
VOC PH010	Basic Digital and Film Photography
VOC PH011	Advanced Professional Photography
VOC PH012	Photographic Alternatives OR
VOC PH021	Exploring Color Photography
VOC PH016	Fashion Photography OR
VOC PH018	Portraiture and Wedding Photography
VOC PH017	Photocommunication
VOC PH020	Color Photography
VOC PH028	Photography Portfolio Development
VOC PH030	Commercial and Illustrative
	Photography

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 PH001 Laboratory Studies: Black and White Photography

VOC PHO15 History of Photography

TUTOR TRAINING

Tutor Training

#Pending

This certificate provides skills for those interested in becoming tutors and will prepare students for jobs as educational aides while also providing early education and experience for students pursuing undergraduate and graduate degrees for the teaching profession.

Certificate Requirements:

Course ID	Course Title
VOCTR10A	Introduction to Tutoring
VOCTR10B	Tutoring in the English Language
VOCTR10C	Tutoring as a Supplemental Instructor
VOCTR10D	Tutoring in Mathematics
VOC TR10R	Tutoring in Reading

WELDING TECHNOLOGIES

Welding Technologies #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	Course	Titl
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VOC WL40 Introduction to Welding
VOC WL70A Beginning ARC Welding
Note: Any higher level welding course may be substituted for VOC WL 70A.

VOCWL70B Intermediate ARC Welding

Recommended Electives:

The Welding faculty recommends that students complement their studies with selected elective courses chosen from the list below. Students should meet with a professor of Welding to help you determine which of those electives would best suit your career plans.

VOC WL60 Print Reading and Computations

for Welders

VOC WL70C Certification for Welders

Licensed Welder #24223

This certificate is designed to prepare students for entry-level employment as a licensed welder in the broad field of welding, including manufacturing, construction, fabrication and repair. Through theoretical and hands-on skills coursework, students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

cer tintate negan ements.		
Course ID	Course Title	
VOC WL40	Introduction to Welding	
VOCWL50	Oxyacetylene Welding	
V0C WL51	Basic Electric Arc Welding	
VOC WL53A	Welding Metallurgy	
VOC WL60	Print Reading and Computations for	
	Welders	
VOC WL70A	Beginning Arc Welding	
VOC WL70B	Intermediate Arc Welding	
VOC WL70C	Certification for Welding	
VOC WL80	Fabrication and Construction Welding	
V0C WL81	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

VOC WL90A Gas Tungsten ARC Welding

Welder with Concentration in Semiautomatic ARC, Welding #24379

Preparation as a Licensed Welder with additional skills and theoretical development in Semiautomatic ARC Welding.

Certificate Requirements:

Completion of Licensed Welder Certificate

PLUS the following:

Course ID Course Title

VOC WL90B Semiautomatic ARC Welding Process

FEE-BASED CERTIFICATE PROGRAM

Bookkeeping Preparation

This seven-week course in bookkeeping preparation provides a core curriculum in the Accounting and Bookkeeping field. The Program is recommended for individuals seeking employment opportunities and/or improving their job skills. To receive a certificate, all classes must be attended and work completed.

This is a hands-on bookkeeping program. Students must supply their own calculator.

Makeup Artistry

Through live demonstrations and hands-on experience, students will discover the professional secrets to beautiful makeup applications. They will develop improved skills and greater confidence in working with clients or on a personal basis. The program consists of six classes. Students must attend all class sessions in order to receive a certificate of completion.

Medical Insurance Billing Specialist

This six-course program is designed for those who are new to the medical field and for those currently working in the field who wish to expand their knowledge in specific areas. Students will become versed in the terminology of the medical profession, knowledgeable in the areas of billing procedures and coding, credit and collection, legal issues and risk management. When you complete the program, you will be able to effectively deal and help with problemsolving activities in a medical business environment. HPAA Compliance and Regulations are included. The program consists of the following six courses which must be taken in order.

- 1. Medical Terminology
- 2. Codina: ICD-9CM/CPT-4/HCPCS
- 3. Medical Insurance Billing Principles
- 4. Medical Credit and Collection of Unsecured Assets
- 5. Legal Issues and Risk Management
- 6. Computerized Medical Insurance Billing

In order to receive a Mt. SAC Continuing Education Certificate of Completion, all students must meet attendance requirements as explained in class, and successfully complete all assignments and exams.

Phlebotomy Technician 1

The Mt. SAC Phlebotomy Technician Program is designed to prepare students to become a California Certified Phlebotomy Technician 1. The program consists of classroom lecture, skills practice and externship in a clinical laboratory. Upon successful completion, the student will be awarded a certificate of completion and will be eligible to take the California State Exam for CPT 1.

RN/LVN Re-Entry into Practice

Theory and clinical skills for Standards of Practice and clinical competency for California Registered Nurses and Licensed Vocational Nurses with active unrestricted licenses.

The Mt. SAC Health Careers Resource Center will provide a state-of-the-art learning lab with active simulated participation in learning of theory and application of skills using high tech human patient simulators and virtual learning aids.

Focus is on current JCAHO Requirements, Safety Trends/Issues and HIPAA Regulations. Guided learning modules, simulated hands on skill practice sessions; skills competency assessments/validation will be utilized. The opportunity for guidance, direction and supervision in an acute care clinical practicum, will be provided with an experienced clinical instructor.

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Levels 1-6 and Pre-Level 1
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·
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Concepts of Enforcement Services
Concepts of Traffic Services
Gangs and Corrections
Legal Aspects of Evidence
Narcotics Investigation
Principles and Procedures of Justice System
Principles of Investigation
Vice Control
Occupational —Agricultural Science
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Animal Handling and Restraint
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Horticultural Science 234 Occupational —Architectural Technology Architectural Computer Aided Design (CAD) 3-D Illustration

Occupational —Business
Accounting, Fundamentals of
Accounting, Payroll and Tax
Accounting, Principles of Financial
Bookkeeping – Accounting
Business Communications
Business English
Business Mathematics
Business Organization and Management
Business Vocabulary
Business, Principles of
Continuous Quality Improvement (CQI), Principles of
Continuous Quality Improvement (CQI), Team Building
E-Commerce, Principles of
Exporting and Importing, Principles of
Financial Planning
Human Relations in Business
Human Resource Management
International Business, Principles of
Marketing, Principles of
Oral Communications for Business
Professional Selling
Real Estate Practice
Retail Store Management and Merchandising
Small Business Management
Special Issues in Business
Special Issues in Marketing
Spelling and Vocabulary for Success
Using Microcomputers in Financial Accounting
Using Microcomputers in Managerial Accounting
Ten-Key Calculations
Occupational —Computer Operations
Basic Computing, Levels 1, 2, and 3
Computer Keyboarding
Computer Keyboarding, Intermediate
Computer Laboratory
Creative Computing

NONCREDIT COURSE LISTINGS (continued)

Data Entry	
Desktop Publishing Software	
Internet Research, Introduction to	
Microcomputer Applications	
Microsoft Powerpoint	
Microsoft Word	
Office Management Skills	
Web Site Development	
Occupational —Computer Technology	
A+ Certification Preparation	238
Home Theater, Home Integrations and Home Security Systems	
Network+ Certification Preparation	
PC Operating Systems	
PC Servicing	
PC Troubleshooting	
Occupational —Correctional Science	
Control and Supervision of the Offender	238
Correctional Law	
Correctional Science, Introduction to	
Crime and Delinquency	
Ethnic Relations in Corrections	
Interviewing and Counseling in Corrections	238
Probation and Parole	238
Violent Offender, The	238
Occupational —Electronics	
Communications Circuits Theory	238
Computer Simulation and Troubleshooting	238
Customer Relations for the Technician	239
Digital Electronics	238
Electronic Devices Theory	238
Electronic Assembly and Fabrication Lecture/Laboratory	238
Electronics Technology, Laboratory Studies in	238
Electronics Theory A & B	
Industrial Circuits Theory	
Industrial Electronic Systems	
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NONCREDIT COURSE LISTINGS (continued)							
Mathematics of Electronics – DC	239	Health Care Interpreting, 1 and 2	240	Illustrator Graphics	241		
Mechatronics, An Introduction	238	Health Care Interpreting, Externship		InDesign Graphics	241		
Microcontroller Systems	238	Health Care Interpreting Seminar	240	Laboratory Studies in Black & White Photography	242		
Microwave Communications	238	In-Home Care of Alzheimer's and Dementia Clients	240	Laboratory Studies in Color Photography	242		
Microcomputers, Technical Applications	238	Intravenous Therapy for Radiologic Technology	240	Multimedia Graphics	241		
Radio/Telephone Communications	238	Medical Terminology	240	Photocommunication	242		
Surface Mount Assembly and Rework, Advanced	238	Occupational —Interior Design		Photographic Alternatives	242		
Occupational —Electronics & Computer Technolog	у	Fundamentals of Interior Design	241	Photography Portfolio Development			
C-7 Low Voltage Systems License Preparation	239	Introduction to Interior Design		Photoshop Imagery			
Cabling and Wiring Standards		History of Furniture and Decorative Arts		Photoshop Imagery Extended			
Electrical Fundamentals for Cable Installation		Materials and Products for Interior Design		Portraiture and Wedding Photography			
Electronic Troubleshooting 1 and 2		Occupational —Manufacturing Technology		Professional Photography, Advanced	242		
Fabrication Techniques for Cable Installation		Manual CNC (Computerized Numerical Control) Operations	2/1	Occupational —Service Learning			
Home Electronic Systems				Service Learning/Seminar for Health Occupations	242		
Occupational —Fashion Design		Manufacturing Processes, 1 and 2		Service Learning/Seminar in Community Involvement			
Clothing Construction 1 and 2	239	MasterCAM, Advanced		Service Learning and Community Involvement	242		
Fashion, Introduction to		MasterCAM Solids		Occupational —Theater & Theater Arts			
Fashion Computer Assisted Drawing		Mathematics and Blueprint Reading for Manufacturing		Children's Theater	243		
Fashion Design and Product Development 1, 2 and 3		Manufacturing and Blueprint Reading for Manufacturing		Play Rehearsal and Performance			
Fashion Design by Draping		Occupational —Nutrition		Stagecraft			
Fashion Patternmaking by Computer		•	244	Technical Theater Practicum			
Fashion Strategies		Cooking for your Heart and Health		Theatrical Costuming			
History of Costume Fashion		Vegetarian Cuisine	241	Theatrical Make-Up			
Illustration for Fashion and Costume Design		Occupational —Photography & Photographics		Occupational —Tutor Training			
Patternmaking 1		3D Graphics Imagery	241		2.42		
Patternmaking 2		Color Photography	242	Introduction to Tutoring			
Retail Store Management and Merchandising		Commercial and Illustrative Photography	242	Tutoring in the Language Arts			
Textiles	239	Computer Graphics Laboratory	241	Tutoring as a Supplemental Instructor			
Occupational —Geography		Digital and Film Photography, Basic		Tutoring in Mathematics			
Geographic Information Systems, Introduction to	240	Digital Cameras and Composition			Z43		
Occupational —Health	240	Digital Color Management		Occupational —Welding			
•		Digital Design Systems, Introduction to		Arc Welding, Beginning			
Acute Care Nursing Assistant		Digital Photography for the Beginner		Arc Welding, Intermediate			
Anatomy and Physiology, Basic		Digital Portfolio		Automotive Welding, Cutting and Modification			
BLS Heartsaver Course — Adult		Exploring Color Photography		Certification for Welders			
Certified Nursing Assistant		Fashion Photography		Electric Arc Welding, Basic			
Geriatric Resource Specialist		History of Photography	242	Fabrication and Construction Welding	243		
Health Careers Resource Center	240						

NONCREDIT COURSE LISTINGS (continued) Oil Painting 232 **Older Adults** Healthy Aging — Principles of Posture and Flexibility232 Healthy Aging — Principles of Slow Movement232

BASIC SKILLS

BS ABEO1 — Career Information and Guidance

Orientation to the college including enrollment procedures, test score interpretation, course selection, and career information. Course includes academic placement tests and/or vocational assessments available.

BS ABEO2 — Adult Basic Education

Improves basic skills of adult learners. Content includes reading comprehension, language, and mathematics. Prepares students for the General Education Development (GED) Exam and the Armed Services Vocational Aptitude Batter (ASVAB) exam.

BS ABE03 — Adult Basic Education - Leadership Development

Leadership styles and individual leadership skills including effective communication, facilitation, problem-solving, decision-making and conflict resolution. Introduction to organizational structures, governance, models and group process.

BS 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 self-management 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 ALG1 — High School Algebra 1

Key components of the first year of algebra. Use of symbolic reasoning and calculations with symbols as applied to solving and graphing equations, functions and inequalities. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS ALG2 — High School Algebra 2

Key components of second year algebra. Expands on basic algebra and geometry concepts, including solutions of quadratic equation and functions, equations and inequalities, fractional exponents and exponential functions, polynomials, real numbers, rational and irrational expressions, logarithmic functions, computations, permutations and probabilities, statistics, series and sequences, and the complex number system.

Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS CPTC — High School Computer Technology

Fundamental computer concepts, keyboarding skills, Internet applications, word processing, multi-media presentations, spreadsheets and electronic publishing. Application of technology in the educational and workplace settings. Includes file-management and appropriate technology use in a network environment as well as copyright law and safety. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS EASC - High School Earth Science

General economic principles and practices including: scarcity and choice, opportunity and trade-offs, economic systems, institutions and incentives, markets and prices, supply and demand, competition, income distribution, monetary policy, international economics and government roles. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS ECON — **High School** - **Economics**

General economic practices including: 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 government roles. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS EELA — CAHSEE Prep: English Language Arts

Examination preparation for the reading and writing portions of the California High School Exit Exam. Supports progress toward a high school diploma or equivalent.

BSHS EEMA — CAHSEE Math Prep

Preparation for the mathematics portion of the California High School Exit Exam. Supports progress toward a high school diploma or equivalent.

BSHS ENG1 — High School - English 1

Foundations of literature using a variety of genres and theme experiences; analysis of works based on themes. Writing, editing and critical thinking skills; vocabulary, concept development, grammar and writing mechanics. Supports progress towards a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS ENG2 — High School English 2

Expands on the foundations of literature from English 1 using a variety of genres and themes. Improves skills in reading comprehension, literary analysis, mechanics of writing and oral presentations. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS ENG3 — High School English 3

Foundations of literature through American literature using the historical approach. Includes social, political, and intellectual trends connected with the following time periods: Pre-Colonial Era, the American Revolution, the New England Renaissance, Slavery and the Civil War, the Frontier Era, the Harlem Renaissance, and the Modern Era. Development of writing and critical thinking skills. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS ENG4 — High School English 4

Foundations of literature through British literature using the historical approach. Includes social, political and intellectual trends connected with the following time periods: Anglo-Saxon, Medieval, English Renaissance, Renaissance drama, the early 17th century, the Restoration and the 18th century, the Romantic Era, the Victorian Age, and contemporary British poetry and prose. Development of writing, critical thinking, and the use of literary tools. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS GEOG — High School-Geography

Patterns and processes that have shaped human understanding, use and alteration of earth's surface; spatial concept and landscape analysis to examine human social organization and its environmental consequences and the inter-relationship of natural processes and systems. Methods and tools geographers use. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS GEOM — High School Geometry

Geometric applications and connections. Definitions, constructions, theorems, proofs, area, volume and geometric relationships. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports

BSHS MUSC — High School - Music Appreciation

government and culture on musical style. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS PHSC — High School Physical Science

Overview of chemistry and physics topics. Basics of the periodic table, matter and atoms. Newtonian physics including motion, momentum and forces. Machines, energy, waves, light, electricity and magnetism. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS PREA — High School Pre-Algebra

Preparatory course for first year algebra. Review of basic mathematic skills and the basic principles of algebra. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS PSY — High School Psychology

Methods, facts and theories of the behavior and processes of human beings and animals. 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. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS SOC — High School Sociology

Concepts and theories of social interaction. Theories, characteristics and implications of culture, socialization, society, groups, deviations and control, social stratification, race, gender, age, family, education, politics, religion, sports and change. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS SPN1 — High School Spanish, Conversation and Writing

Fundamentals of Spanish language. Communication about self and immediate environment using simple sentences and phrases. Includes writing and speaking. Cultural connections to geography and customs of Spanish-speaking countries. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS SPN2 — High School Spanish 2

Intermediate Spanish. Culture, listening, speaking, reading and writing. Emphasis on skills needed to communicate in a variety of modes with increased complexity and proficiency. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS SSK — High School - Study Skills

Effective work habits in preparation for the school or work environment. Basic approaches to organization skills, effective learning tools, and career path development. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS USH — High School United States History

History, politics, economics, religion and culture in United States history from its beginning to contemporary times. Significant events and people that comprise American history. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

BSHS WHS — High School World History

World history from prehistory to the modern era. Major turning points that shaped the modern world, focusing on the late 18th century through the present, including causes and courses of the two world wars. Rise of democratic ideas and the historical roots of current world issues pertaining to international relations, historical, geographic, political, economic and cultural contexts. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

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

Enhance student's communication skills by providin 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, prealgebra, 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, percentages, 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, spread-sheet, 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 computer-assisted 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 ELLO1 — Lifelong Learning for the Special Needs Population

Educational activities for special needs students emphasizing physical, cognitive, social and emotional skill development.

DSPS LRND1 — Clinical Speech Instruction

Designed to accommodate individual and group instruction for adults with speech and/or learning problems. Includes individual evaluation and speech improvement plan. Disorders addressed include phonology, fluency, voice and resonance, hearing impairment, cerebral vascular accident and acquired brain injury. Instruction is not available for students with dialectal problems.

DSPS LRND2 — High Tech Center Tutorial/ Assistance Class

Advisory Prerequisite: Students must be referred by a counselor in Disabled Student Programs and Services (DSP&S) in order to register for this class. 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.

ENGLISH AS A SECOND LANGUAGE

ESL LANG3 — English for Specific Uses (ESL)

Advanced ESL students improve speaking, writing, vocabulary and SCANS competencies related to vocations. Includes critical thinking, customer service, teamwork and autonomous learning strategies.

ESL LVL1 — ESL - Level 1

Beginning to low English students build vocabulary, grammar and communication skills.

ESL LVL2 — ESL - Level 2

High beginning English students build upon their base of vocabulary and improve grammar understanding through practice of listening, speaking, reading and writing skills. Students work independently and in groups to develop projects and make presentations that are meaningful to them.

ESL LVL3 — ESL - Level 3

Low intermediate level students improve English communication and grammar through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams in preparation for academic/vocational success and encourage civic participation.

ESL LVL4 — ESL - Level 4

High intermediate level students improve English communication and grammar through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams, in preparation for academic/vocational success and encourage civic participation.

ESL LVL5 — ESL - Level 5

Low advanced level students improve English communication and grammar understanding through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams in preparation for and academic/vocational success and encourage civic participation.

ESL LVL6 — ESL - Level 6

High advanced level students improve English communication skills and prepare to transition into academic, vocational programs, or general community classes. Activities include teamwork, projects, presentations and exams to ensure life-long learning, civic participation and overall success.

ESL PLVL1 — ESL - Pre-Level 1

Literacy-level English students build a base of vocabulary and grammar through practice of listening, speaking reading and writing skills.

ESL SPKA — ESL - Speaking A

Beginning level students develop English listening comprehension and speaking fluency. Activities include talking in small groups or with partners, listening and responding to simple conversations, short presentations and pronunciation practice.

ESL SPKB — ESL - Speaking B

Intermediate level students improve English oral proficiency in areas of pronunciation, listening comprehension and speaking skills. Through group discussions and short presentations, students practice speaking with clarity and fluency, present their ideas and opinions, and make cultural comparisons.

ESL SPKC — ESL - Speaking C

Advanced level students expand listening and speaking strategies to facilitate academic preparation, workplace advancement and civic participation. Focus is on fluency, grammatical accuracy and appropriate social register. Activities include use of authentic material in group tasks and class presentations.

ESL TOEFL — TOEFL Preparation

Advanced ESL students improve grammar, speaking and writing in preparation for standardization tests such as TOEFL.

ESL VHLTH — English As A Second Language for Health Professionals

Advanced ESL students improve medical vocabulary and English skills for healthcare situations.

ESL WRTA — ESL Writing - A

Beginning level students develop reading and writing skills that set the foundation for their English literacy. Material is based on familiar topics and American customs. Focus is on vocabulary expansion, introduction to reading passages, and accuracy in sentence-level writing

ESL WRTB — ESL Writing – B

Intermediate level students improve English reading and writing proficiency through a variety of reading material and writing topics. Students gain fluency and confidence through abridged book reports, process writing and peer editing, primarily at the paragraph level.

ESL WRTC — ESL Writing - C

Advanced level students expand English reading and writing proficiency through a range of genres. American-style process writing is practiced in order to facilitate academic preparation and workplace advancement. Focus will be on interpretation of authentic material and development of editing strategies.

OLDER ADULTS

OAD ELLO2 — Lifelong Learning for Older Adults - Physical Fitness

Maintain and/or improve overall physical fitness through a variety of conditioning exercises specifically designed for the older adult.

OAD ELLO3 — Lifelong Learning for Older Adults - Crafts

Develops creative and artistic skills through visual and fine motor coordination utilizing various arts and crafts material. Students will learn skills to make crafts while sharing individual artistic expertise with peers.

OAD ELLO4 — Lifelong Learning for Older Adults

Improve and/or maintain the mental fitness of the older adult through educational activities promoting critical thinking skills. Students will be presented with mental exercises and intellectual stimulation to enhance cognitive skills.

OAD ELLO5 — Lifelong Learning Through Current World Events

Presents current events in a variety of ways to provide education about local, national and world issues to promote mental fitness of the older adult.

OAD 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 MOXO2 — Healthy Aging – Principles of Slow Movement

Heath aging, including diet, nutrition, disease prevention, and application of Tai Chi principles to maintain health while aging.

OAD MOXO4 — Healthy Aging – Principles of Posture and Flexibility

Health aging, including diet, nutrition, disease prevention, and application of Yoga principles to maintaining health while aging.

OAD MOXO6 — 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 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-a-kind creations. Learn to solve fitting problems and make professional looking garments. Tailoring, pattern making, cutting and style design will be taught. Students are responsible for their own supplies and equipment. Proper maintenance of equipment and organization of work will be covered. Students will receive a supply list at the first class meeting.

VOC ESD10 — Beginning Decorative Art Production for Retail Sales

Introduction to acrylic paints and associated mediums including painting on a variety of surfaces. The use of tole decorative art brush strokes will be incorporated into a step-by-step method on specific projects.

Marketing and pricing of finished products will be presented.

VOC ESD11 — Intermediate Decorative Art Production for Retail Sales

Use of acrylic paints and associated mediums including painting on a variety of surfaces. Patterns are provided for student's use. More advanced tole decorative art brush stroke techniques will be incorporated into a step-by-step method on specific projects. Includes marketing and pricing of products. Students will receive a supply list at the first class meeting,

VOC ESD15 — Jewelry/Lapidary Production Design

Jewelry making and stone cutting/polishing, lapidary work. Includes appropriate maintenance of equipment and workshop safety. Includes outings to jewelry suppliers, shows and rock hunting trips.

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 sub-system procedures from initial incident to final disposition.

VOC ADJ03 — Concepts of Criminal Law

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

VOC ADJ04 — Legal Aspects of Evidence

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

VOC ADJ05 — Community Relations

A comprehensive exploration of community problems designed for individuals in public service with major emphasis on community-oriented policing. Reviews public service image, diversity issues, human relations and reactions, crisis areas and confrontations with the public.

VOC ADJ06 — Concepts of Enforcement Services

Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences.

VOC ADJ13 — Concepts of Traffic Services

A study of traffic management, collision reconstruction, collision factors including law violations and human factors, collision evidence, traffic enforcement techniques and specialization in traffic management. Emphasis is placed on service to the motoring public.

VOC ADJ20 — Principles of Investigation

This course covers the fundamentals of investigation including crime scene search and recording; collection and preservation of physical evidence; modus operandi; scientific aids; sources of information; interviews and interrogation; follow up and case preparation.

VOC ADJ38 — Narcotics Investigation

Investigation techniques for drug enforcement. Drug effects, use of informants, amendment issues and handling of evidence.

VOC ADJ59 – Gangs and Corrections

Exploration of contemporary street and prison gang issues, including historical and current perspectives, prison gang dynamics, identification of characteristics, cultural differences of gang philosophy. Includes law enforcement/corrections role in intervention/suppression.

VOC ADJ68 — Administration of Justice Report Writing

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

VOC ADJ74 — Vice Control

Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of laws dealing with gambling, prostitution, and sex crimes.

OCCUPATIONAL AGRICULTURAL SCIENCE

VOC AGG01 — Food Production, Land Use and Politics - A Global Perspective

Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture.

VOC AGN01 — Animal Science

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

VOC AGN02 — Animal Nutrition

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

VOC AGN51 — Animal Handling and Restraint

This course will cover the methods of properly handling large and small animals and will include chemical and physical techniques of restraint.

VOC AGN94 — Animal Breeding

The science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included.

VOC AGL12 — Exotic Animal Management

Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals.

VOC AGL14 — Swine Production

A study of the various types of swine enterprises and the ways and means of entering them. Swine management, including handling, feeding, breeding, furrowing, butchering, and marketing.

Practical skills are taught using the college farm.

VOC AGL16 — Horse Production

Selection, utilization, and management of the light horse emphasizing recreational aspects of the modern horse. Laboratory work includes actual experience in the care of horse and tack.

VOC AGL17 — Sheep Production

A study of the various types of sheep enterprises and the ways and means of entering them. Includes class, laboratory and project work concerning all phases of sheep management, sheep handling, feeding, shearing, breeding, lambing and marketing. Practical skills taught on the school farm and sheep farms in the area.

VOC AGL18 – Horse Ranch Management

Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm layout, estrous cycles, breeding problems and stallion care.

VOC AGL19 - Horse Hoof Care

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

VOC AGL20 — Horse Behavior and Training

Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading.

VOC AGL30 — Beef Production

Principles and practices in the selection and management of feeder, market and breeding beef cattle.

Economics of production, utilization of farm-grown feeds, and feedlot operations will be stressed.

VOC AGL34 — Livestock Judging and Selection

Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation.

VOC AGL96 — Animal Sanitation and Disease Control

Prevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmissions of infectious diseases, principles of sanitation and fundamentals of immunology.

VOC AGL97 — Artificial Insemination of Livestock

Theory and application of artificial insemination of livestock, including semen evaluation and processing. Pregnancy diagnosis will be covered as an aid to the inseminator.

VOC AGR-G — Home Gardening

Includes lectures, demonstrations and hands-on experience in organic gardening, indoor plants, introduction to bonsai, fruit orchards, traditional gardening and information on pesticides. The study of design, propagation methods, pruning, fertilizing, and a general understanding of horticulture will be included.

VOC AGR01 — Horticultural Science

The basic horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development.

VOC 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 AGRO5 — 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 low-flow irrigation practices. Design, installation techniques, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and low-flow devices, and uniformity of water distribution. Students will gain hands-on experience in design and installation techniques.

VOC 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 CAD and BIM

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 — Architectural CAD Illustration and Animation

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 BOO5 — Business English

Skills and techniques of English, as applied to business situations. Emphasis on effective paragraphs and memos.

VOC B025 — Business Communications

Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports.

VOC BO26 — Oral Communications for Business

Designed to help business people communicate more effectively in spoken communication situations such as training sessions, presentations, and professional discussions.

VOC B096 — Spelling and Vocabulary for Success

Advisory Prerequisite: VOC 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 B0 96A and VOC B0 96B are equivalent to VOC B0 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 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 CPBC1 — Basic Computing Level 1

Introduction to the personal computer, including terminology and basic computer operations in a Windows environment. Instruction is hands-on. Note: Students may take this class only 2 times consecutively.

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.

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.

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 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)

OCCUPATIONAL COMPUTER TECHNOLOGY

VOC CNT50 — PC Servicing

PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment.

VOC CNT52 — **PC Operating Systems**

Current operating systems required for A+ and Network+ Certification and general computer servicing. Topics include: identification of major components, installation, configuration, upgrading and troubleshooting.

VOC CNT54 — PC Troubleshooting

Advanced microcomputer servicing. Includes: isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam.

VOC CNT56 – Home Theater, Home Integration and Home Security Systems

Home theater, home integration, and other home management systems. Emphasis on home theater, home management PLCs, security hardware and programming and the installation and servicing of such systems. Prepares the student for the California State Contractors C-7 voltage systems license.

VOC CNT60 — A+ Certification Preparation

Prepares the student and qualified computer technician for the A+ certification examination. All aspects of the Core and OS test modules will be stressed through both lecture review and test simulation software.

VOC CNT62 — Network+ Certification Preparation

Prepares the student and/or A+ certified technician for the Network+ Certification Examination. Individuals preparing for a job in the computer networking industry or who wish to become Network+ certified will find this course invaluable.

OCCUPATIONAL CORRECTIONAL SCIENCE

VOC CRS10 — Introduction to Correctional Science

Overview of the field of corrections: county jail, probation, the California Youth Authority and the Department of Corrections as a member of the Criminal Justice System. Includes philosophy, past and the present practices and the criminal justice and correctional processes.

VOC CRS15 — Control and Supervision of the Offender

Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions.

VOC CRS20 — Correctional Law

Legal and due process rights for inmates. Inmate rights vs. needs of society, State, federal and appellate court decisions.

VOC CRS25 — Probation and Parole

Historical development of probation and parole with emphasis on current California programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies.

VOC CRS30 — Ethnic Relations in Corrections

A historical survey of minority roles, problems and relationships in America. Stresses cultural and racial differences and interpersonal relationships of correctional staff and clients.

VOC CRS35 — Interviewing and Counseling in Corrections

Techniques of interviewing and counseling in the field of corrections with emphasis on practical application. Needs of the client and agency will be stressed.

VOC CRS40 — Crime and Delinquency

Criminal behavior and types of crime and effects on society and victims. Stresses property crime, property offender, motivation and methods of control used by society.

VOC CRS45 — The Violent Offender

Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim.

OCCUPATIONAL ELECTRONICS

VOC EL10 — Introduction to Mechatronics

An introduction to the field of mechatronics, a combination of conventional electronic technology with mechanical and computer technology. Special emphasis is on robotics. Hands-on activities include the building of a robot.

VOC EL11 — Technical Applications in Microcomputers

Use of the personal computer (PC) in electronics for technically related applications. Includes word processing, spreadsheet, database, computer presentation methods, e-mail and job searches. Students who repeat this course will improve skills through further instruction and practice.

VOC EL12 — Computer Simulation and Troubleshooting

Use of the personal computer for simulation and troubleshooting of both analog and digital electronic circuits. Circuit analysis, value substitution, and fault diagnostics will be done with the emphasis on "Electronics Workbench/Multisim" software. Students who repeat this course will improve skills through further instruction and practice.

VOC EL50A — Electronics Theory

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.

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 — Microcontroller 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 FASHION AND FASHION DESIGN

VOC FSH08 — Introduction to Fashion

Examines scope of the fashion industry from concept to consumer: industry background and technology. Includes design, manufacturing, distribution, sales and promotion with emphasis on career opportunities and qualifications.

VOC FSH09 — History of Costume and Fashion

A survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on style development as it relates to social, economic and political forces, and the relationship of historic styles to current fashion.

VOC FSH10 — Clothing Construction 1

Development of a basic understanding of industry standard apparel construction techniques using a variety of machines and equipment. Included are marker preparation, commercial patterns, basic block fusing, and garment construction of slim skirt/pants, dress/shirt. and knit "T" shirt.

VOC FSH12 — Clothing Construction 2

Industry-quick alternatives to traditional construction and tailoring techniques, using overlock and single needle machines. Hands-on experience using woven fabrics for tailored clothing and novelty knits.

VOC FSH15 — Fashion Strategies

An investigative overview of sociological, psychological, cultural and fashion industry influences on clothing selection. The elements and principles of design and their impact on dress will be explored.

VOC FSH17 — Textiles

Examines the manufacturing of textiles/fabrics and factors that determine the suitability for end use. Topics covered include natural and synthetic fibers, yarns, fabric construction, dyes, finishes, legislation and care. Emphasis is placed on selection criteria for textile product design and recent developments in the textile field.

VOC FSH20 — Illustration for Fashion and Costume Design

Drawing techniques for fashion and theatrical costume design. Application of the basic techniques used in drawing a well-proportioned male and female figure and in rendering garment flats using texture, fabric and design detail. Students will explore a variety of mediums.

VOC FSH21 — Patternmaking 1

Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, slopers will be created, constructed and fitted.

VOC FSH22 — Fashion Design By Draping

Three-dimensional dress design through draping fabrics directly to a dress form to create original designs or to interpret fashion illustrations.

VOC FSH23 — Patternmaking 2

Intermediate pattern drafting and flat patternmaking, with the introduction to the sizing of patterns/grading. Development of patternmaking skills to include two-way stretch knits, swimwear, and complex construction. Students apply commercial manufacturing standards in producing size ranges for misses' and women's wear, to include skirts, pants, bodices, sleeves and collars.

VOC FSH24 — Fashion Patternmaking by Computer

Applications of Computer Aided Design (CAD) pattern-making 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 HHA — Home Health Aide

Preparation for certification as a Home Health Aide by the state of California. Incudes federal and state regulations, client needs, quality of care and clinical hours. Note: Priority registration for HHA (Home Health Aide and ACNA (Acute CNA) classes is given to students who are continuing from successful completion of the Mt. SAC CNA course and have a current* Mt. SAC History and Physical Form on file with the college. (*Within 1 year or less. This is a Mt. SAC contractual requirement.)

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:

Fnrollment in VOC HITH 05

VOC HTH04 — Acute Care Nursing Assistant

This course will enhance the existing skills of the CNA and provide the knowledge and job skills to work in various departments of acute care hospitals including med-surgical, obstetrics and pediatrics.

Prerequisites:

- Documentation of completion of CNA Course and successful pass on CNA certification exam
- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA ID card)
 and Social Security card

VOC 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 IHSS — In-Home Support Services

Preparation to assist elderly, disabled and ill persons living at home. Communication skills, maintenance of a healthy environment and procedures for emergencies. Physical, emotional and developmental characteristics of the patients served; personal hygiene, safe transfer techniques and basic nutrition.

VOC RDTEC — Intravenous Therapy for Radiologic Technology

This course prepares the Radiologic Technologist student to perform venipuncture in an upper extremity to administer contrast materials under the general supervision of a licensed physician and surgeon. Principles and techniques of venipuncture will be covered including: anatomy and physiology of sites, instruments, I.V. solutions, equipment, puncture techniques, hazards, complications, emergency care, post puncture care. Procedure practice and safe competency evaluation will be performed on training aids under supervision.

OCCUPATIONAL INTERIOR DESIGN

VOC ID10 – Introduction to Interior Design

Practice of interior design and the planning of total interior environments that meet individual, functional and environmental needs. Fieldtrips may be required.

VOC ID12 – Materials and Products for Interior Design

Analysis, application and evaluation of products and materials used in interior design. Fieldtrips are required.

VOC ID14 – History of Furniture and Decorative Arts

Historic development of structure, interior spaces, furniture and decorative arts throughout the world. Interior architecture is illustrated in this overview of design heritage and antiquity to present. Emphasis is placed on style development as it relates to social, economic and political influences as well as the use of materials and technology. Fieldtrips may be required.

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 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 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 GRP10 – Photo 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 GRP15 — InDesign Graphics

Adobe InDesign software skills, techniques and digital workflow practices commonly created for use in essential computer graphics production processes for commercial design, printing and publishing, the Internet and multimedia authoring production.

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 PH004 — Digital Cameras and Composition

Use of digital cameras, lenses, filters, and exposure to compose quality photographs. Shooting assignments are given for analysis in class. Camera will be required after the second week.

VOC PHO10 — Basic Digital & Film Photography

The basic mechanical, optical and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques.

VOC PHO11 — Advanced Professional Photography

Exploration of current professional techniques. Includes studio and field assignments related to problems encountered in advanced photography. Topics include but are not limited to: medium and large format cameras, studio product and portraiture, strobe and tungsten lighting, and computer basics for professional photographers.

VOC PH012 — Photographic Alternatives

Explores the use of continuous tone and alternative black and white techniques and processes. Emphasis will be on solving photographic problems through the use of current techniques such as montage printing, Polaroid and xerographic applications, hand coloring, and emulsion coating (cyanotype, Luminous/Liquid-Light) as well as other special techniques.

VOC PHO15 — History of Photography

Survey of the history of photography from circa 1839 to the present. An introduction to concepts of photographic representation and their impact on society.

VOC PH016 — Fashion Photography

Illustrative, editorial and advertising fashion photography. Studio and location production in both black and white and color are emphasized. Aspects of business operation and working with clients are explored.

VOC PH017 — Photocommunication

Explores the application of the photosensitive materials, photochemicals and optics. The emphasis will be on the aesthetic and expressive uses to which these materials lend themselves. The student is expected to supply his/her own adjustable camera.

VOC PH018 — Portraiture and Wedding Photography

Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In-depth study and practice in professional wedding photography.

VOC PHO20 — Color Photography

An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints.

VOC PHO21 — Exploring Color Photography

Use of color principles as they relate to commercial and artistic styles and innovative use of color applications. Includes lighting and unusual techniques, exaggerated and unique color schemes, light-painting, lighting effects, high dynamic range effects and oversize output.

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 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.

SECTIONTWELVE

College Policies and Notices



Committed to Student Success

COLLEGE POLICIES

For detailed information regarding Mount San Antonio College Board of Trustees Policies (BP) and Administrative Procedures (AP), go to http://www.mtsac.edu/administration/trustees/policies/bp_complete.pdf and

http://www.mtsac.edu/administration/trustees/administrative-procedures.pdf

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 (BP 4290 and AP 4290).

Cheating and Plagiarism Cheating

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 in one's place
- 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 the Director of Student Life. A 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.

Accommodations 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 qualified student with a disability. The College is also required to have a policy and procedure for responding to students with verified disabilities who request academic adjustments. Students with disabilities have the right to receive reasonable academic adjustments in order to create an educational environment where they have equal access to instruction without fundamentally altering any course, educational program or degree. The Board Policy (BP 5140) and Administrative Procedure (AP 5140) for Individuals with Disabilities may be found at the following links: http://www.mtsac.edu/administration/trustees/policies/bp_complete.pdf http://www.mtsac.edu/administration/trustees/administrative-procedures.pdf and in Disabled Student Programs & Services, Ext. 4290.

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 Drug-Free Schools and Communities Act Amendments of 1989, P. L. 101-226 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 current Schedule of Classes for the College's Alcohol and Other Drugs Policy (BP 3550, AP 3550).

Animals on Campus

Board Policy (BP 3940) 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. Section 626), 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 current 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 (BP 3930).

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 Student Programs and Services (DSP&S) may authorize a person to be a Personal Care Attendant (PCA) when the need for such accommodation is authorized by DSP&S prior to beginning service as a PCA (BP 4700, AP 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.

College Policies and Notices

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 rules and regulations adopted pursuant to Section 21113 of the California Vehicle Code and the Mt. San Antonio College Board of Trustees (BP 6750).

All vehicles parked in designated student lots MUST bear a valid parking permit. The Student Parking Permit is valid in designated student lots except pay lots or in spaces controlled by parking meters or reserved signage. Student Parking Permits are not valid in designated employee parking lots. Free 30-minute parking is available north of the Bookstore (Building 9A), west of the Administration Building (Building 4), and south of the Performing Arts Center. Permit parking regulations are strictly enforced 24 hours a day, 7 days a week.

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 National Standards Institute Safety Code.

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 of, 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, marital 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. (BP 3410, AP 3410)

Human Resources/Equal Employment Opportunity Officer ADA/504 Compliance Officer Human Resources Office

Ext. 4225

Reserve Officer Training Corps (ROTC)

Students interested in a military career can join an approved Reserve Officer Training Corps (ROTC) program offered through local universities. These programs are open to community college students pursuing an undergraduate degree, prior to transfer. Air Force ROTC programs are offered through Cal State San Bernardino, Loyola Marymount University, University of Southern California (USC) and UCLA; Army ROTC programs are offered at Claremont McKenna College, Cal Poly Pomona, USC, UCLA and Cal State Fullerton; and Navy ROTC programs are offered through USC and UCLA. Competitive scholarships are available to qualified applicants as well as allowances for books and other costs. Students are advised to contact the ROTC program at the participating university.

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 (BP 3430, 3500, 3540 and AP 3430, 3500, 3540). All applicable punishment, including criminal charges and disciplinary action, shall be applied whether the violator is an employee, student or member of the general public.

Services available to help assure student safety include:

- Public Safety Escorts are available during evening hours to escort students safely to their car. Escorts are stationed throughout campus or are provided upon request. Please call ext. 4555 or (909) 274-4555.
- Blue emergency telephone towers located throughout the campus and parking lots access Public Safety immediately for assistance.
- Public Safety can be reached at (909) 274-4555.

- Call 911 for any emergency. Be prepared to identify your exact location.
- Contact Student Life Office at ext. 4525 to report incidents.
- Student Health Services provides personal counseling and medical attention.

For additional information, go to www.mtsac.edu/students

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, smoking will be prohibited on Mt. San Antonio Community College District property except in designated smoking areas. Designated smoking areas can be found on campus maps and the College website. Violations of this policy will be subject to a citation and a fine, as allowed per Government Code 7597.1. Appeals may be submitted in writing to Public Safety within twenty-one (21) calendar days of issuance of the citation.

Standards of Conduct (BP 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:

- Causing, attempting to cause, or threatening to cause physical injury to another person.
- Possession, sale or otherwise furnishing any firearm, knife, explosive
 or other dangerous object, including but not limited to any facsimile
 firearm, knife or explosive, unless, in the case of possession of any
 object of this type, the student has obtained written permission
 to possess the item from a College employee, which is concurred with
 by the College President/CEO.

- 3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- 4. Committing or attempting to commit robbery or extortion.
- 5. Causing or attempting to cause damage to College property or to private property on campus.
- Stealing or attempting to steal College property or private property on campus, or knowingly receiving stolen College property or private property on campus.
- 7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.
- Committing sexual harassment as defined by law or by College policies and procedures.
- Engaging in harassing or discriminatory behavior based on nationa origin, religion, age, sex (gender), race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because a person is perceived to have one or more of the foregoing characteristics.
- 10. Willful misconduct that results in injury or death to a student or to College personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the College or on campus.
- 11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
- 12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- 13. Dishonesty, forgery, alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.
- 14. Unauthorized entry upon or use of College facilities.
- Lewd, indecent or obscene conduct on College-owned or controlled property, or at College-sponsored or supervised functions.
- 16. Engaging in expression which is obscene, libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation of lawful College administrative procedures, or the substantial disruption of the orderly operation of the College.
- 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.
- 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: any act or threat of intimidation, discrimination, harassment, or physical aggression, arbitrary action, violation of student rights, or imposition of sanctions without proper regard to College policy as specified in the Education Code, Board Policy, and/or Administrative Procedures, violation of Title IX Education Amendments of 1972, or violation of Section 504 of the Rehabilitation Act of 1973 with reference to the rights of disabled students. Discrimination Complaints involve complaints based upon discrimination on the basis of ethnic group identification, religion, age, gender, sexual orientation, color, or physical or mental disability and any other category of unlawful discrimination. Students should contact the College's Affirmative Action Officer/504 Compliance Officer/Equal Employment Opportunity Representative located in the Office of Human Resources.

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 obtain 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 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 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 submits 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 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 Trustees; their decision concludes the grievance process (AP 5530).

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 (BP 3410, AP 3410).

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 (BP 5052, AP 5052).

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 in Building 23. A Public Safety crime log is published bi-monthly in the student newspaper and Emergency Procedures are posted throughout the campus.

College Policies and Notices

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) 274-4555, 24 hours a day, seven days a week. Public Safety may also be contacted during and after business hours from public telephone locations on campus by dialing *91. In the event of an emergency, students and staff are requested to make a prompt and accurate report to the Public Safety Department. The Public Safety Department is located at the southeast portion of the campus off Bonita Drive in Building 23.

Enforcement

The Mt. San Antonio College Public Safety Department has the authority to enforce the Student Discipline Code of Conduct and the State of California Penal Code under Education Code Section 72330. The Mt. San Antonio College Board of Trustees has established the Public Safety Department as a community college police department under Education Code Section 72330(a), which authorizes the governing board of a community college district to establish a community college police department under the supervision of a community college chief of police. Although a designated police department, the Mt. San Antonio College Public Safety Department has a memorandum of understanding mandated by the "Crime Awareness and Campus Safety Act of 1990," that the Los Angeles County Sheriff's Department has jurisdiction to investigate all crimes occurring on Mt. San Antonio College Campus.

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

PUBLIC SAFETY DEPARTMENT STATISTICAL CRIME REPORT			
Violation	2009	2010	2011
Non-Negligent Manslaughter	0	0	0
Negligent Manslaughter	0	0	0
Sex Offenses - Forcible	0	0	1
Sex Offenses - Non-Forcible	0	0	1
Robbery	6	0	0
Aggravated Assault	9	5	3
Burglary	14	8	6
Burglary from Motor Vehicle	27	29	11
Motor Vehicle Theft (GTA)	12	17	5
Theft from Vehicle	45	16	24
Theft	53	67	62
Arson	0	0	0
Vandalism	31	32	30
Liquor Law Violations	3	1	3
Drug Law Violations	4	2	11
Illegal Weapons Violations	1	0	3
Hate Crimes - Race	0	4	1
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	205	182	166

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 23. 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 (BP 3505, AP 3500, 3503).

Notice of Students' Rights and Privacy Act

Students at Mt. San Antonio College are notified annually of their rights under FERPA (Family Educational Rights and Privacy Act) within this section of the Catalog. More detailed information on student rights is available from http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html
Following is a summary of the Mt. San Antonio College policy related to the Family Educational Rights and Privacy Act of 1974 (FERPA), P.L. 93-380 (also referred to as the Buckley Amendment) and [Chapter 1297, Statutes of 1976, State of California.]: 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 Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Ave., S.W., Washington, D.C., 20202-5920, concerning alleged failure of the College to comply with the provisions of FERPA.

Access to Educational Records

All former and present students have the right to review and inspect their educational records in the Office of Admissions and Records provided they make a written request fifteen (15) days in advance. Such a review will be under the direct supervision of a classified or certificated employee in the Admissions and Records Office. Expressly exempted from the right of review and inspection are the following materials:

- 1. Financial records of the parents of the student(s).
- Confidential letters and statements of recommendation maintained by the College on or before January 1, 1975, provided that such letters or statements are not used for purposes other than those for which they were specifically intended.
- Records of instructional, supervisory, counseling, and administrative personnel which are in the sole possession of such personnel and are not accessible or revealed to any other person except a substitute.
- 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.

- Representatives of the Comptroller General of the United States, the Secretary of Education, and administrative head of an educational agency, state education officials, and the United States Office of Civil Rights, where such information is necessary to audit a program.
- Accrediting organizations in order to carry out their accrediting functions.
- d. Organizations conducting studies on behalf of the institution.
- e. Officials of other schools or school systems in which the student seeks or intends to enroll subject to the rights of students.
- f. Agencies or organizations in connection with a student's application for financial aid.
- g. Organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, and administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students or their parents by persons other than representatives of such organizations and such information will be destroyed when no longer needed for the purpose for which it is compiled.
- h. Appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons.

- i. Courts or other agencies in compliance with a subpoena or judicial order. A reasonable effort will be made to notify the student in advance of the compliance by the College.
- 3. Directory Information:
 - a. "Directory Information" means a student's name, community of residence, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student.
 - Any student desiring to withhold "Directory Information" may file
 a written request with the Dean, Enrollment Management,
 within fifteen (15) days of the opening day of each semester or
 session that the student does not want such information
 released.
 - The College reserves the right to limit or deny the release
 of specific categories of directory information based upon a
 determination of the best interests of the student(s).

Students may file a complaint with the United States Department of Education regarding alleged institutional FERPA violations.

Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, D.C. 20202-5920

The 1996 Solomon 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 (AP 5040).

Student Right-to-Know Rates

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. For this calculation, a fall cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students are 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. A Completer is a student who attained a certificate or degree or became "transfer-prepared" during a three-year period. Students who are "transfer-prepared" have completed 60 transferable units with a GPA of 2.0 or better. Transfer students are those who transferred to another postsecondary institution (UC, CSU or another California Community College) prior to attaining a degree, certificate, or becoming "transferprepared" during a five-semester period. For up-to-date rates please see http://srtk.ccco.edu/index.asp

SECTIONTHIRTEEN

Faculty and Academic Administrators



Committed to Student Success

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., Lovola 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, Mava (2000)

Enalish, 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 Conditionina & Weldina 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

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

Aguino, Llovd (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 Ed.D., California State University, Long Beach

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)

Enalish, 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

Bartman, Sydney (1986)

Enalish, 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

Belinski, Victor A. (2006)

Chief Technology Officer B.A., M.A., University of California, Los Angeles

Ed.D., California State University, Long Beach

Beydler, David (2011)

Mathematics B.S., Harvey Mudd College M.S., California State University, Los Angeles Birca, Alina (2005)

Mathematics, Computer Science B.S., University Alexandru 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

Blvzka, 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)

Kinesiology/Athletics/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)

Nursina

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

Bray-Ali, Julie (2001)

Earth Sciences, Astronomy

B.A., California State Polytechnic University, Pomona

M.S., University of Southern California

Briggs, Christopher (2012)

Biological Sciences

B.S., University of California, Berkeley M.S., University of California, Riverside

Bro, Glenda (1991)

American Language

B.A., Dana College

M.S., University of Nebraska

TESOL Certificate, California State University, Fullerton

Brouillette, Ronald (1989)

English, Literature & Journalism
B.A., M.A., California State University, Fullerton

Brown, Ronald (2006)

Fine Arts

B.F.A., M.F.A., Art Center College of Design

Burgoon, Steve (2002)

Commercial and Entertainment Arts

B.A., University of Phoenix

M.A., California State Polytechnic University, Pomona

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, Michael (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

Cavion, Deborah (1994)

Associate Dean, Kinesiology/Athletics / Dance 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

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)

Nursina

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

Ph.D., Western University of Health Sciences

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

Clements, Todd (2012)

Chemistry

B.S., Harvey Mudd College

M.S., Ph.D., University of California, San Diego

Condra, Denise (2006)

Nursing

B.A., Whittier College

B.S.N., M.S.N., Azusa Pacific University

Cooper Mark J. (1997)

Biological Sciences

B.S., M.S., California State Polytechnic University, Pomona

Coreas, Kelly (2000)

Respiratory Therapy

A.S., East Los Angeles College

B.S., Loma Linda University

M.S., Western University Pomona

Curran, Karen O'Brien (1998)

Child Development

B.S., California State University, Fullerton M.S., Pacific Oaks College

D

Daland, William (2005)

Counseling

B.A., California State University, Fullerton M.S., California State University, Long Beach

Daum, Sarah (1998)

Dean, Technology & Health

A.B., Stanford University

M.S., University of Michigan

Ed.D., Nova Southeastern University

Davis, Maria (2005)

Consumer Science & Design Technologies
B.A., American InterContinental University

Degtyareva, Anna (1999)

Computer Information Systems

B.S., M.S., Leningrad University for Economics Engineers

M.S., California State University, San Bernardino

Deines, Craig B. (1997)

Fine Arts

B.A., M.F.A., Central Washington University

Denny, Joseph (2010)

Electronics and Computer Technology

B.A., Azusa Pacific University

B.S., California Polytechnic State University, Pomona

M.A., California State University, Fullerton

DePaola, Gina (1991)

English, Literature & Journalism
B.S., Metropolitan State College, Denver
M.S., California State University, Long Beach

Diem, Andrea (1991)

Sociology, Philosophy

B.A., University of California, San Diego

M.A., Ph.D., University of California, Santa Barbara

Di Mauro, Eileen (1991)

Chemistry

B.A., University of California, Santa Barbara M.S., University of California, Irvine

Distante, Debbie (2000)

Librarian

B.A., Morningside College

M.A., University of Iowa

Domico, Brenda L. (1997)

Accounting & Management
B.S., M.B.A., California State Polytechnic
University, Pomona
Certified Managerial Accountant

Dorough, George D. (1991)

Sign Language

A.A., Rochester Institute of Technology

B.A., M.Ed., University of Massachusetts

Dougherty, Michelle (2007)

English, Literature & Journalism
B.A., M.A., California State Polytechnic University,
Pomona

Dowdle, Michael (2005)

Psychology, Education

A.A., Butte Community College

B.A., M.A., California State Polytechnic University, Chico

Dua, Amrik Singh (1990)

Business Administration

B.A., M.A., Panjab University

M.A., Dalhousie University

Ph.D., Southeastern University

Ε

Earhart, Kimberly (2005)

History & Art History

A.A., Riverside Community College

B.A., M.A., Ph.D., University of California, Riverside

Eastman, Ralph M. (1980)

Theater

B.A., Antioch College, Ohio

M.A., Trinity College, Connecticut

M.F.A., University of California, Los Angeles

Eatman, Elisabeth (2006)

Consumer & Design Technologies B.F.A., California State University, Long Beach

Edson, Thomas (2006)

English, Literature & Journalism B.A., University of California, Irvine M.A., Chapman University

Edwards, William (2005)

Mathematics, Computer Sciences
B.S., M.S., California State Polytechnic University,
Pomona

Eisley, Benjamin N. (1990)

Air Conditioning & Welding

A.A., Cerritos College

B.S., M.S., Eastern Michigan University

Ellwood, Jeffrey (2006)

Music

B.M., Berklee College of Music

M.M., California State University, Fullerton

Emanuel, Elaine S. (1998)

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 M.A., Psy.D., Biola University

Enke, Gary D. (1990)

English, 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, California 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)

Counseling

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

Fisher, Damany (2009)

History & Art History
B.A., University of California, Davis
M.A., Ph.D., University of California, Berkeley

Ford, Kelly (2001)

Kinesiology/Athletics /
Head Coach, Women's Softball
A.S., Central Arizona College
B.S., University of Oklahoma
M.Ed., Azusa Pacific University

Fowler, Jamaika (2011)

Counseling

B.S., California State Polytechnic University, Pomona

M.S., California State University, Long Beach

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

G

Galbraith, Jennifer (1988)

Mathematics, Computer Science
A.A., Chaffey College
B.S., M.S., California State Polytechnic University,
Pomona

Gallarde, Marlene (2007)

Sociology, Philosophy
B.A., M.A., California State University, Fullerton

Garcia, Daniel (2007)

Welding

B.S., Azusa Pacific University, Azusa

Garrett, Jean (1989)

English, Literature & Journalism
A.A., Mt. San Antonio College
B.A., M.A., California State Polytechnic University,
Pomona

Garrett, LeAnn (2001)

Librarian

B.S., University of Wisconsin — Stout M.L.I.S., Ph.D., University of Hawaii at Manoa

Garwick, Jennifer (2006)

Agricultural Sciences
B.S., California State Polytechnic University,
Pomona

Gau, Jim (2000)

Computer Information Systems
B.E., Feng Chia University
M.B.A., California Lutheran University

Goff, Michael (1998)

Kinesiology/Athletics /
Head Coach, Men's Cross Country /
Head Coach, Women's Track and Field
A.A., Bakersfield College
B.A., M.A., Whittier College

Golden, Dafna (2001)

Geography & Political Science
B.S., Humbolt State University
M.S., California State University, Los Angeles

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)

Mental Health Technology B.S.N., Montana State University

Graham, Chris Giles (1991)

Mathematics, Computer Science
B.A., Pomona College
M.S., Chadron State College
M.S., California State University, Los Angeles
Ph.D., Claremont Graduate University

Greco, Victoria (1999)

Disabled Student Programs & Services
B.A., California State University, Fullerton
M.A., California State University, San Bernardino

Gregoryk, Michael D. (2005)

Vice President, Administrative Services
M.S., University of California, Los Angeles

Griffith, Hugh M. (1998)

Mathematics, Computer Science
B.A., University of California, Berkeley
M.S., California State University, Los Angeles

Grimes-Hillman, Michelle (2000)

Psychology, Education B.A., M.A., California State University, Fullerton

Guth, Scott A. (1990)

Mathematics, Computer Science

A.A., San Bernardino Valley College

B.S. M.S. California Polytochnic State University

B.S., M.S., California Polytechnic State University, San Luis Obispo

Н

Hagner, Dirk (2007)

Fine Arts

M.A., University of Essen, Duisburg, Germany

Halabi, Solene (2008)

Foreign Languages

M.A., California State University, Fullerton

Hall, Martha (2007)

Learning Assistance

 $B.A., University \ of \ California, \ Riverside$

M.A., Claremont Graduate University

Hanson, Grace (1996)

Director, Disabled Student Programs & Services
B.A., M.A., California State University, Long Beach
Transition Services for Individual with Disabilities
Certificate

Harper, Michael W. (2000)

English, Literature & Journalism B.A., M.A., San Diego State University

Hart, Jeremy (2012)

Counseling

B.A., California State University, Dominguez Hills M.A., California State University, Dominguez Hills

Hartman, Laurie (2007)

Commercial and Entertainment Arts B.F.A., Rochester Institute of Technology

Hatch, Rebecca (2001)

Sociology, Philosophy
B.A., California Lutheran University
M.S., Ph.D., University of Southern California

Heard, Lance (2008)

Public Services

B.S., United States Military Academy, West Point M.S., University of Cincinnati

Henry, Anthony (2007)

Child Development

B.A., Humbolt State University

M.A., California State University, Los Angeles M.A., Azusa Pacific University

Hernandez, Alina (1988)

Counseling

A.A., Santa Ana Community College B.A., M.A., California State University, Fullerton Ph.D., University of Southern California

Hernandez, Corie (2011)

Psychiatric Technician

B.S., California State University, Fullerton

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

Hill-Enriquez, Evelyn (1991)

American Language

A.A., Mt. San Antonio College

B.A., M.A., California State University, Fullerton TFSOL Certificate

Hirsch, Jamie (2012)

Fire Technology

B.S., California State University, Long Beach

Hischar, Paul (1998)

Accounting & Management

B.S., California State Polytechnic University, Pomona

M.B.A., West Coast University

Ho, Robert I. (1984)

Architecture & Engineering Design Technology
B.S., Cheng Kung University
M.Arch., University of Minnesota
NCARB, National Council of Architectural
Registration Boards

Hoffman, Harlan (2005)

California Licensed Architect

History, Art History, Geography, Political Science B.A., M.A., California State University, Fullerton Ph.D., University of California, Riverside

Hoffman, Ruth Jean (1997)

Agricultural Sciences

A.S., Mt. San Antonio College

B.V.E., California State University, San Bernardino

Hoggan, Lynda Smith (1996)

Biological Sciences

B.S., Slippery Rock University

M.P.H., University of California, Los Angeles

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

Horton, Tamra (2000)

English, Literature & Journalism B.A., University of California, Davis M.A., University of Wyoming Ph.D., Louisiana State University

Hosea, Phebe (2007)

Mathematics, Computer Science B.S., M.S., University of California, Irvine

Howell, Luisa (2002)

Foreign Languages

B.A., M.A., California State University, Sacramento

Hseih, Mei Ling (2011)

Communication

B.A., M.A., California State University, Long Beach

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

Hutchinson, James. (2011)

Respiratory Technology
B.A., University of Phoenix

Hymer, Jonathan (2005)

Electronics & Computer Technology B.A., University of California, Davis

Ī

Impara, Carol (2005)

Consumer & Design Technologies B.A., Davidson College M.S., University of Maryland

J

Jackson, Christopher (2005)

Kinesiology/Athletics/

Head Coach, Women's Water Polo and Swimming

B.S., California State University, Fullerton

M.S., Azusa Pacific University

Jagodka, Ralph F. (1997)

Accounting & Management
B.S., Western Illinois University
M.B.A., Pepperdine University
Ed.D., University of La Verne

James, Stephen (2012)

Industrial Design

B.A., California State University, Northridge

Jastrab, Robert (2001)

Kinesiology/Athletics / 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)

Dean, Humanities & Social Sciences
B.A., M.A., California State Polytechnic University,
Pomona

Jennum III, Joe E. (1997)

Dean, Kinesiology/Athletics / Dance / Athletic Director

B.S., California State Polytechnic University, Pomona

M.S., California State University, Fullerton

Jobbitt, Rafaela (2012)

History & Art History
B.S., University of Lisbon, Portugal
M.A., University of Toronto, Canada

Johnson, Mary T. (1997)

Computer Information Systems
B.A., California State University, Fullerton
M.S., Azusa Pacific University

Johnson, Michelle (1998)

Mathematics, Computer Science
B.S., M.S., University of California, Irvine

Jones, Lorraine (2008)

Human Resources
B.A., Millersville University of Pennsylvania
M.S.W., Howard University

Jones, William D. (1992)

History & Art History

A.A., Mt. San Antonio College

B.A., University of California, Los Angeles M.A., Ph.D., Claremont Graduate School

Judd, Matthew T. (1990)

Associate Dean, Natural Sciences
B.A., University of California, Berkeley
M.A., Claremont Graduate School

K

Kakiba-Russell, Karyn N. (1990)

Biological Sciences

B.S., M.S., California State University, Los Angeles

Kaljumagi, Eric (1999)

Learning Assistance
B.S., University of California, Davis
M.A.T., University of California, Davis

Kamaka, Ron (2006)

Kinesiology/Athletics /
Assistant Coach, Cross Country and Track and Field
B.A., Sonoma State University
M.S., Azusa Pacific University

Karn, Tamara (2001)

English, Literature & Journalism B.A., University of California, Los Angeles M.A., Chapman University

Kauk, Melissa (2012)

Fine Arts

B.A., M.F.A., California State University, Long Beach

Kemp, Kurt A. (2000)

Foreign Languages

A.A., Mt. San Antonio College B.A., California State University, Fullerton

M.A., University of California, Los Angeles

Keys, S. Carolyn (2001)

Dean, Student Services

B.A., California State University, Fullerton M.B.A., National University, La Jolla

Khan, M. Zahir (1990)

Physics & Engineering
B.E., University of Poona
M.S., Ohio State University
Registered Professional Engineer

Khoddam, Kambiz (1999)

Mathematics, Computer Science
B.S., M.A., California State University, Long Beach

Kido, Janine (2005)

Biological Sciences

B.A., M.S., California State University, Fullerton

Kim, Candice S. E. (2000)

Mathematics, Computer Science
B.S., M.S., California State University, San Diego

King, Nancy L. (1988)

Counseling

B.S., University of California, Los Angeles M.S., University of Southern California

Kirchgraber, Albert (1999)

Mathematics, Computer Science
B.S., California State Polytechnic University,
Pomona
M.A., California State University, Fullerton

Kittle, Paul (2004)

Librarian

B.A., University of California, Riverside

M.S., Loma Linda University

M.S.L.S., University of Southern California

Klawitter, Kenneth (1991)

Communication

B.S., Bradley University, Illinois

M.A., Miami University, Ohio

M.A., California State University, Los Angeles

Knapp, Joshua (2000)

Psychology, Education

B.A., University of California, Berkeley Ph.D., University of California, Santa Barbara

Kojima, Tetsuro (2000)

Mathematics, Computer Science
B.A., M.S., California State University, Los Angeles
Ph.D., University of Southern California

Kokorowski, Heather (2012)

Earth Science & Astronomy
B.S., University of Arizona
M.S., University of Washington
M.S., University of Washington

Kolchakian, Misty (2005)

Psychology, Education
B.S., University of Florida
M.A., Ph.D., University of Maryland, College Park

Kunkler, Constance (2006)

Nursing

A.S.N., A.A. Mt. San Antonio College B.S.N., M.S.N., C.S.N., P.H.N., California State University, Dominguez Hills

Kuo, Tiffany (2011)

Music

B.A., Stanford University
M.A., The Juilliard School
Ph.D., New York University

Kuykendall, Carolyn (2009)

Director, Honors Program M.A., Chapman University

Lackey, Hilary (2010)

Earth Sciences and Astronomy
B.A., Smith College
M.S., Ph.D., University of Wisconsin

Lancaster, Stephen (2011)

Mathematics

M.A., Ph.D., The University of Oklahoma

Landeros, Darlene (2001)

Child Development
A.A., Rio Hondo Community College
B.A., University of La Verne
M.A., Pacific Oaks College

Lane, David C. (1989)

Sociology, Philosophy

A.A., Los Angeles Valley Community College B.A., California State University, Northridge M.A., Graduate Theological Union, Berkeley M.A., Ph.D., University of California, San Diego

Lawlor, Elizabeth (2000)

Biological Sciences

A.B., Brown University

M.A., Ph.D., University of California, Riverside

Leader, Jennifer (2006)

American Language

M.A., Azusa Pacific University

Ph.D., Claremont Graduate University

Ledeboer, Lisa (2006)

Consumer Science & Design Technologies

B.S., Iowa State University

M.S., California State University, Northridge

Lee, Eddie (2006)

Counseling

B.A., California State Polytechnic, Pomona M.S., California State University, Long Beach

Leung, Jenny (2006)

Chemistry

B.S., M.S., University of California, Irvine

Lizarraga, Max (1993)

Architecture & Engineering Design Technology
B.A., M.A., California State University, Long Beach

Lobb, Elizabeth A. (1998)

Geography & Political Science
B.A., University of California, Berkeley
M.A., University of Washington

Lockhart, Heidi (2007)

Career and Transfer Services
A.A., Crafton Hills College

B.A., M.A., California State University, San Bernardino

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

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

Lujan, Angel (1999)

Counseling

B.A., M.A., California State University, Fullerton

Lynes, Billie (2006)

Nursing

A.S.N., Mt. San Antonio College

B.S.N., M.S.N., FPN, University of Phoenix

M

McCormick, Elizabeth (1991)

English, Literature & Journalism

B.A., Barnard College

M.A., Ph.D., Claremont Graduate University

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)

Continuina Education

B.S., San Diego State University

M.B.A., California State Polytechnic University, Pomona

Certified Public Accountant

McGraw, Jill (1991)

Mental Health Technology

A.S., Santa Ana College

B.V.E., California State University, Long Beach

McGruder, Charles (1992)

Sociology, Philosophy

B.A., University of Redlands, Johnston College M.A., Ph.D., Claremont Graduate School

McIntosh, William (1999)

Music

B.A., B.M., Biola University

M.M., California State University, Long Beach

McKee, Catherine (1995)

Business Administration

B.A., University of California, Berkeley J.D., University of San Diego School of Law

Member, California Bar Association

McLaughlin, David L. (1997)

Radiologic Technology

A.A., A.S., Mt. San Antonio College

B.S., University of St. Francis

R.T., American Registry of Radiologic Technology

California Certified Radiologic Technologist M.Ed., California State Polytechnic University,

Pomona

McMullin, Janet (1990)

Mathematics, Computer Sciences
B.S., M.S., Northern Illinois University

McPhail, Yuki (1992)

Foreign Languages

B.A., Carthage College, Wisconsin

M.A., Fuller Theological Seminary, Pasadena

Ma, Jannie (2008)

Learnina Assistance

B.A., M.A., University of Southern California

M.A., California State University, Fullerton

MacDonald, Jennifer (2001)

Program Director, Histologic Technician Biological Sciences

A.S., Canadore College, Canada

Madrigal, Paulo (2009)

Director, Community & Career Education

A.A., Mt. San Antonio College

B.S., California State Polytechnic University, Pomona

M.S., University of La Verne

Maestro, Patricia (2004)

Counseling/Coordinator Learning Communities

A.A., East Los Angeles Community College

B.A., California State University, Long Beach M.S., University of La Verne

Mageean, Michael (2000)

English, Literature & Journalism

B.A., M.A., California State Polytechnic University, Pomona

Ph.D., University of California, Irvine

Maloney, Clark (2012)

Kinesiology & Athletics
B.A., Mid America Nazarene College
M.Ed., Azusa Pacific University

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, Pomona

M.S., California State University, Los Angeles

Medina, David (1994)

Sociology, Philosophy

B.A., M.A., California State University, Fullerton

Meggelin, Nancy (1998)

Mental Health Technology
B.S.N., University of Phoenix
M.S.N., Ed., University of Phoenix

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)

Biological Sciences

B.A., University of Pennsylvania Ph.D., Michigan State University

Mezaki, Barbara (1990)

American Language

B.A., University of Buffalo

M.Ed., University of Buffalo

J.D., Southwestern University

Mezquita, Jesse A. (1977)

Commercial and Entertainment Arts

A.A., East Los Angeles College

B.V.E., M.V.E., California State University, Los Angeles

Miller, Kenneth (2011)

Electronics

B.S., California State Polytechnic University,

M.S., California State University, Fullerton

Mirman, David (2000)

Biological Sciences

B.A., University of Pennsylvania

M.S., University of California, Davis

Mrofka, David (2011)

Earth Sciences

B.S., Ph.D., University of California, Riverside

Muñiz, Laura A. (2005)

Counseling, EOP&S/CARE

A.A., Mt. San Antonio College

B.S., California State University, Fullerton

M.S., University of La Verne

Munro, Matthew J. (1998)

Mathematics, Computer Science B.S., University of Washington M.A., University of Colorado

Myers, Richard (2011)

English, Literature and Journalism
B.S., University of La Verne
M.A., California State Polytechnic University,
Pomona

N

Nakamura, Amy Bates (2005)

Dance

B.A., California State University, Fullerton M.F.A., University of California, Irvine

Nassar, Sam (2007)

Counseling

B.A., California State Polytechnic University, Pomona

M.A., Azusa Pacific University

Nazzal, Jane (2012)

Learning Assistance

B.A., M.Ed., University of California, Los Angeles

Nejad, Iraj Behbahani (1992)

Chemistry

B.S., Judi Shapur University, Iran Ph.D., Michigan State University

Neel, Monique (2006)

Radiologic Technology

A.S., A.A., Mt. San Antonio College

B.A., University of Phoenix

Certified Radiology Technologist California

Certified Mammographer

R.T., American Registry of Radiologic Technology R.T. (M), American Registry of Mammography

Newman, Charles (2000)

Chemistry

B.S., Northern Arizona University

Ph.D., University of California, San Diego

Nguyen, Bao-Chi (2010)

Mathematics, Computer Sciences
B.S., University of California, Los Angeles
Ph.D., Massachusetts Institute of Technology

Nguyen, Kim-Leiloni (Loni) (2000)

Biological Sciences

B.A., University of California, San Diego M.D., University of California, Irvine Ph.D., University of California, Los Angeles

Nitta, Akira (Art) (2006)

Mathematics, Computer Science

B.A., University of Irvine

M.S., California State Polytechnic University, Pomona

Nixon, Bruce (1999)

Mental Health Technology

B.S., California State Polytechnic University, Pomona

0

0'Brien, Paul (1999)

English, Literature & Journalism B.A., University of California, Los Angeles M.A., San Jose State University

Ocampo, James (1990)

Director, Assessment & Matriculation B.A., M.A., California State University, Northridge

Olds, Jennifer (2008)

English, Literature & Journalism
B.A., M.A., California State Polytechnic University,
Pomona

Orr, Jondea (2004)

Nursing

A.D.N., Rio Hondo College B.S.N., California State University, Dominguez Hills M.S.N., University of Phoenix

Ott, Serena (2012)

Foreign Languages
B.A., University of Bologna, Italy

M.A., University of Saarland, Germany

P

Padilla, Maya (2011)

Registered Veterinary Technician
A.A., Mt. San Antonio College
B.A., California State Polytechnic University,
Pomona

Parker, Stacy (2001)

Kinesiology/Athletics / Head Coach, Men's Baseball B.A., University of California, Irvine M.Ed., Azusa Pacific University

Parra, Heidi R. (1992)

Mathematics, Computer Science
A.A., Cerritos College
B.A., M.A., California State University, Fullerton

. .

Pascoe, Virginia (1995)

Biological Sciences
A.A., Cerritos College
B.S., B.A., M.S., California State University,

Long Beach Patterson, Richard (2002)

Associate Dean, Business B.S., California Polytechnic University, Pomona M.Div. St. Johns Theological Seminary

Pedersen, Kirk (1998)

Fine Arts
B.A., Midland College
M.A., San Francisco State University
M.F.A., Claremont Graduate School

Pellitteri, John (1999)

Counseling, ESL

B.A., California Polytechnic University, Pomona M.S., University of La Verne

M.A., Psy.D., California School of Professional Psychology

Perez, Anabel (2007)

Counseling

M.S., California State University, Long Beach

Perez, Christopher G. (2008)

Mathematics & Computer Science
B.S., California State University, San Bernardino
M.S., California State University, Los Angeles

Perez-Garcia, Julie (1999)

Counseling

B.A., University of California, Santa Barbara Ph.D., Washington State University

Perkins, Robert (2001)

Architecture & Engineering Design Technology
B.S.C.E., Princeton University
M.Arch., University of Colorado

Phillips, Jamie (2008)

Agricultural Sciences

B.S., M.S., California State Polytechnic University, San Luis Obispo

Petersen, Craig A. (1981)

Biological Sciences

B.S., M.S., California State University, Los Angeles

Pilato, Nikk (2012)

Music

B.M., M.M., Ph.D., Florida State University

Plesetz, Sarah (2008)

Nursing

A.S., Los Angeles County School of Nursing A.A., Mt. San Antonio College B.S.N., M.S.N., P.H.N., Ed., California State University, Dominguez Hills

Pop, Horia C. (1998)

Mathematics, Computer Science
B.A., University of Bucharest
M.S., University of Iowa
M.A., Ph.D., University of Southern California

Potter, Don (2009)

Manager, Deaf and Hard of Hearing Services, DSP&S B.A., University of Minnesota RID, CI/CT, NADV

Poulter, Shane (2007)

Counseling

B.A., California State Polytechnic University, Pomona

M.A., California State University, Dominguez Hills

Preciado, Rosa M. (1975)

Psychology, Education

A.A., Mt. San Antonio College

B.A., California State University, Fullerton M.A., University of California, Riverside

Presch, Melissa (2008)

Biological Sciences

B.A., California State University, Fullerton M.S., California State University, San Bernardino

Prochaska, Cynthia Adam (1990)

English, Literature & Journalism
B.A., M.A., University of California, Santa Barbara

Purcell, Robert (2011)

Kinesiology/Athletics
B.A., M.S., Azusa Pacific University

Q

Quinn, Barbara (2006)

Disabled Student Programs & Services
B.A., California State University, Fullerton
M.S.W., University of Southern California

Quintana-Mullane, Kimberly (2004)

English, Literature & Journalism
A.A., Mt. San Antonio College
B.A., M.A., California State Polytechnic University,
Pomona

R

Ramey, Martin A. (2011)

Business Administration
B.A., Arizona State University
J.D., University of San Diego
LL.M., Indiana University
Member, California Bar Association

Redinger, Larry L. (1975)

Dean, Natural Sciences

A.S., San Bernardino Valley College B.S., California State University, Long Beach

M.S., Northern Arizona University

Reel, Ron (1988)

Communication

A.A., Bakersfield College

B.A., M.A., California State University, Fresno Ph.D., Valley Christian University

Reinhart, Liesel (1997)

Communication

B.S., University of Colorado M.P.S., Cornell University

Revell, Timothy (1999)

Biological Sciences

A.A., Ventura College

B.A., University of California, Santa Cruz

M.S., California State University, Fullerton

Ph.D., Loma Linda University

Rexach, Carmen (2005)

Biological Sciences

B.A., University of California, Los Angeles

M.S., California State University, Stanislaus

Ph.D., University of California, Davis

Reyes, Eloise M. (2012)

Disabled Student Programs & Services
B.A., University of Nevada, Las Vegas
M.S., California State University, Los Angeles
Career Counseling Certificate

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

Ritz, Karol E. (1997)

Dance

B.A., University of California, Irvine

M.A., California State University, Fullerton

Rivas, Hector (2007)

Commercial and Entertainment Arts

B.A., California Polytechnic University, Pomona M.B.A., Keller Graduate School of Management

Rivas, Tony M. (2005)

Counseling, EOP&S/CARE

A.A., Santa Ana College

B.A., San Jose State University

M.S., California State University, Long Beach

Robinson, Carolyn (2006)

Learning Assistance

B.S., California State Polytechnic University, Pomona

M.S.Ed., University of Southern California

Roche, William (2012)

Computer Information Sciences

B.S., M.S., California State University, Fullerton

Rogers, Bruce (1994)

Music

B.S., University of Connecticut

M.A., Claremont Graduate University

Rogus, Linda (2005)

Aeronautics and Transportation

F.A.A. Certificates; Flight Instructor, Airplanes & Instruments, Airline Transport Pilot

A.S., Mt. San Antonio College

B.S., California State University, Los Angeles

Rogus, Robert (2001)

Aeronautics and Transportation

A.S., Mt. San Antonio College

B.S., California State University, Los Angeles

F.A.A. Certificates: Flight Instructor;

Airplanes & Instruments; Commercial Pilot

Romero, Oscar (2007)

Nursing

A.S., Mt. San Antonio College

R.N., Los Angeles County - University of Southern California School of Nursing

MSN, California State University, Fullerton / University of California, Irvine

Rowley, Dianne (2012)

Learning Assistance

B.A., California State Polytechnic University, Pomona

M.Ed., Azusa Pacific University

Rubenstein, Susie (2005)

Fine Arts

B.A., University of California, Santa Cruz

B.F.A., Kansas City Art Institute

M.F.A., Cranbrook Academy

Rudd, Terry Shaylor (1988)

Mental Health Technology

A.S., East Los Angeles College

B.S., California State University, Fullerton

M.S., California State University, Los Angeles

Ruh, Marc T. (1997)

Kinesiology/Athletics/

Head Coach, Men's Water Polo and Swimming

A.A., Mt. San Antonio College

B.A., University of California, Santa Barbara

M.A., Azusa Pacific University

Russell, Paul (1988)

Learning Assistance

B.S., California State Polytechnic University,

Pomona

M.Ed., California Lutheran College

S

Salinger, Aaron (2011)

Foreign Languages

B.A., University of California, Santa Cruz M.A., University of New Mexico

Sampat, Michelle (2007)

Learning Assistance

B.A., Pomona College

M.A., Claremont Graduate School

J.D., Whittier Law School

Sanchez, Andrew (2001)

Mental Health Technology

A.S., R.N., Mt. San Antonio College

Sanchez, Hector (2006)

Counseling, EOP&S/CARE

A.A., Glendale Community College

B.A., University of California, Los Angeles

M.S., University of La Verne

Sanchez, Lisbet (2008)

Foreign Languages

B.A., B.A., California State University, Los Angeles M.A., New Mexico State University

Sanchez, Juan (2005)

Kinesiology/Athletics / Head Coach, Men's Soccer B.S., California State University, Los Angeles M.Ed., University of La Verne

Santiago, Tanya (2011)

Nursing

A.S.N., Mt. San Antonio College

B.S.N., M.S.N., F.N.P., Azusa Pacific University

Sardinas, Ignacio (2008)

Architecture and Engineering Design Technology
B.A., California State Polytechnic University,
Pomona

Schmidt, Sherry (1985)

Biological Sciences

B.A., University of Montana

M.A., California State University, Fullerton

Schnurbusch, Karen (2002)

Physics & Engineering

B.S., University of California, Santa Barbara M.S., University of Illinois, Urbana-Champaign

Sciore, Donald (1999)

Commercial and Entertainment Arts

B.F.A., California State University, Fullerton

Scott, Brian (2001)

Agricultural Sciences

A.S., Mt. San Antonio College

B.S., California State Polytechnic University, Pomona

Scott, Sarah (2007)

Biological Sciences

B.S., University of Massachusetts, Amherst M.S., University of Connecticut, Storrs

Scroggins, William T. (2011)

President & CEO

B.S., University of California, Los Angeles

Ph.D., University of California, Riverside

Shackelford, Stephen (2010)

Aeronautics, Transportation

B.A., University of San Francisco

M.A.S., Embry-Riddle Aeronautical University

Shannon, Cynthia (1991)

Biological Sciences

A.A., Fullerton College

B.A., California State University, Fullerton

B.S., M.S., California State Polytechnic University,
Pomona

Ph.D., University of California, Riverside

Sharpe, Paul W. (1997)

Public Services

B.A., College of Santa Fe

M.S.W., California State University, San Bernardino Certified Substance Abuse Counselor, UCLA

Sherwood, Kelly (2009)

Medical Services Department

A.A., Lake Tahoe Community College

Sholars, Joan (1991)

Mathematics, Computer Science B.A., M.A., California State University, Fullerton

Shull, Stephen (2006)

Fire Technology

B.S., Southern Illinois University
M.S., California State University, Long Beach

Silva, Lawrence (2005)

Learning Assistance

B.A., California State Polytechnic University, Pomona

M.A., Chapman University

Simon, Curtis (2009)

Geography & Political Science
B.A., California State University, Chico
M.A., University of California, Riverside
Ph.D., University of California, Davis

Sloan, Sayedeh Omideh (2008)

Assistant Director, Adult Basic Education
B.A., George Washington University
M.A., Ph.D., University of California, Santa Barbara

Smith, Bailey K. (2009)

Director, Learning Assistance Center
B.A., University of California, Santa Cruz
M.A., University of Wisconsin - Milwaukee

Smith, Daniel E. (1998)

Commercial and Entertainment Arts B.A., California State University, Fullerton

Smith, James B. (1998)

Counseling

B.A., M.A., California State University, Fullerton

Smith, John K. (2001)

Public Services
B.A., M.S.W., Indiana University
Ph.D., International University for Graduate
Studies

Soares, Darrow (1992)

Air Conditioning, Welding, & Water Technologies
A.A., Riverside City College
B.A., University of California, Riverside
M.A., California State University, San Bernardino

Soto, Lina (2001)

Counselina

B.A., University of California, San Diego M.A., San Diego State University

Sparks-Mackey, Maxine (1990)

Geography & Political Science
B.A., University of Redlands
M.P.A., University of Southern California
Ph.D., Claremont Graduate School

Stewart-Thomas, Michelle (2007)

Sociology, Philosophy M.S., Purdue University M.S., M.A., Fuller Theological Seminary Ph.D., University of Southern California

Stokes, Nona (1990)

American Language
B.S., Howard University
M.S., Ph.D., Georgetown University

Stone, James (2008)

Geography & Political Science
M.A., University of Kentucky
M.F.A., Ph.D., Chapman University

Strand, Richard W. (2001)

Theater

B.S., Eastern Michigan University M.F.A., University of Iowa

Strope, Byron (1990)

Aircraft Maintenance & Manufacturing
A.S., Chaffey College
B.S., California State Polytechnic University,
Pomona

F.A.A. Certificates, Airframe and Powerplant, Inspection Authorization

Private Pilot, F.C.C.

F.A.A. Safety Counselor

F.A.A. Designated Mechanic Examiner

Stuard, Bob (1986)

Sign Language

A.A., San Diego Mesa College B.A., University of California, San Diego M.B.A., California State University, Dominguez Hills

Sullivan, Michael P. (1991)

English, Literature & Journalism B.A., Hamilton College M.A., State University of New York Ph.D., University of Rhode Island

Summers, Melody (2006)

Mathematics, Computer Science
B.S., M.S., California State Polytechnic University,
Pomona

Sun, Christine (2001)

Mathematics, Computer Science
B.S., National Taiwan University
M.A., Ph.D., University of South Carolina

Swartz, Pauline (2006)

Librarian

B.A., University of California, Santa Cruz MLIS, University of California, Los Angeles

Swift, Crystal Lane (2008)

Communication
B.A., California Baptist University
M.A., Ball State University
Ph.D., Louisiana State University

T

Takashima, Timothy (2000)

Mathematics, Computer Science
B.S., M.S., California State University, Long Beach

Tamayo, Santiago (Jimmy) (2002)

Mathematics, Computer Science
B.S., California State Polytechnic University,

Pomona M.S., University of California, Riverside

Tatoian, Vahe (1990)

Physics, Engineering
B.S., Yerevan University, Armenia
M.S., Drexel University

Tellez, April (2008)

History & Art History
B.A., M.A., University of California, Riverside

Terreri, Joseph P. (1989)

Mathematics, Computer Science
B.S., M.S., California State Polytechnic University,
Pomona

Teske, Margaret (2002)

Manager, ESL Instructional Support B.S., University of Northern Colorado M.S., Colorado State University

Thay, Cecilia (2012)

Child Development
B.A., Institute of Education, Rangoon, Burma
M.S., University of La Verne

Thomas, Antoine (2006)

Counseling

B.A., University of California, Riverside M.S., California State University, Long Beach

Thomas, James D. (1998)

English, Literature & Journalism
B.A., Westmont College
M.A., Ph.D., Claremont Graduate University

Todd, Douglas (1995)

Kinesiology/Athletics /
Head Coach, Women's Cross Country
& Men's Track and Field
A.A., El Camino College
B.A., California State University, Long Beach
M.A., California State University, Dominguez Hills

Tolano-Leveque, Maryann (2009)

Director, Student Life

B.S., M.A., California State Polytechnic University, Pomona

Ed.D., University of Southern California

Ton, Chan-Phuong (2005)

Counseling

B.A., University of California, San Diego

Tran, Frank (2002)

Mathematics, Computer Science B.S., University of California, Davis M.A., University of California, Santa Barbara

Tran, Niki (2011)

Interior Design

B.F.A., California State University, Long Beach

Trejo, Lyssette (2009)

Counseling

B.A., California State University, Fullerton M.S., University of La Verne

Tripp, Robin R. (1985)

English, Literature & Journalism
B.A., M.A., California State University, Chico

Troxell, Cameron (2001)

Mathematics, Computer Science
B.A., Gonzaga University
M.S., University of La Verne

Trujillo, Tammy (1999)

Commercial and Entertainment Arts
A.A., Long Beach City College
B.A., California State University, Fullerton

Trull, Stephen Tyler (2001)

History, Art History, Geography, Political Science A.A., Mt. San Antonio College B.A., California State University, Fullerton M.A., University of California, Santa Barbara

Truttmann, Janet (2002)

Chemistry

B.A., University of California, San Diego Ph.D., California Institute of Technology

Tunstall, Christine M. (1990)

Disabled Student Programs & Services B.A., M.S., University of Michigan M.S., Capella University

U

Uiagalelei, Iona (2010)

Kinesiology/Athletics / Assistant Football Coach B.S., Southern Utah M.A., New Mexico Highlands University

Uranga, Jaime (2007)

Electronics & Computer Technology A.A., Mt. San Antonio College

Uyeki, Elizabeth Chisato (2007)

I ibrarian

B.A., Earlham College M.L.I.S., University of California, Los Angeles

Uyeno, Gary (1999)

Registered Veterinary Technology B.S., University of California, Davis D.V.M., Iowa State University

V

Vail, Deidre Tucker (1991)

Biological Sciences

B.S., California State Polytechnic University, Pomona

M.S., University of California, Irvine

Velickovic, Jeanne Marie (2012)

Associate Dean, Humanities and Social Sciences B.A., M.A., University of South Africa Ph.D., The University of Texas

Visosky, Thomas (1980)

Agricultural Sciences

A.S., Mt. San Antonio College

B.S., M.S., California State Polytechnic University, San Luis Obispo

Ph.D., Michigan State University

Vitullo, John (2002)

Communication

B.A., Southern Utah University M.A., Ball State University

Vo, Tuan A. (2000)

Mathematics, Computer Science
A.A., San Bernardino Valley College
B.S., M.S., California State Polytechnic University,
Pomona

W

Wakefield, Jeffrey W. (2000)

Mathematics, Computer Science
B.S., University of California, Los Angeles
M.S., California State University, Long Beach

Walker, Christopher N. (1980)

Disabled Student Programs & Services
B.A., California Lutheran College
M.A., California State University, Northridge
Ph.D., University of Iowa

Walker, Lori (2000)

Learning Assistance
B.S., University of California, Riverside
M.A., Ph.D., Claremont Graduate University

Walker, Rebecca (2006)

Earth Sciences, Astronomy B.A., Hamilton College M.S., University of Arizona

Ward, Elizabeth (1999)

Kinesiology/Athletics
B.A., California State University, Long Beach
M.A., California State Polytechnic University,
Pomona

Wasson, Sheri (2011)

Fine Art

B.F.A., California State University, Fullerton M.F.A., University of New Mexico

Watanabe, Kathleen (1996)

Child Development

B.S., California State University, Los Angeles

Waters, Dawn (2008)

Agricultural Sciences

B.S., California State Polytechnic University, Pomona

M.Ed., University of La Verne

Weatherilt, Sandra (2001)

Consumer Science & Design Technologies B.A., M.A., California State University, Long Beach

Webb, Craig A. (1998)

Earth Sciences, Astronomy
B.A., B.S., Syracuse University, New York
M.S., Duke University

Whalen, Margaret F. (1989)

English, Literature & Journalism
B.S., Jacksonville University
M.A., University of Maine at Orono

Wheeler, Daniel (2011)

Learning Assistance
B.A., University of California, Berkeley
M.S., California State University, Fullerton

Wiesner, Mary Rose (2002)

Respiratory Therapy
B.S., Northeastern University

Wilcher, Lance (2005)

Nursing

A.A., Mt. San Antonio College B.S.N., M.S.N., F.N.P., University of Southern California

Wilkerson, Jill K. (2001)

Disabled Student Programs & Services B.A., University of South Dakota M.S., Arizona State University

Wilkerson, Stephen C. (1989)

Music

B.A., Tulsa University M.A., Pittsburgh State University

Williams, Deborah (1992)

Mathematics, Computer Science
B.S., California State Polytechnic University,
Pomona
M.A., California State University, Fullerton

Williams Tyler, Jody (2002)

Chemistry

B.S., University of Evansville M.S., Ph.D., University of California, Irvine

Williamson, Kisha (2007)

Child Development

B.A., California State University, Long Beach M.S., University of La Verne

Wilson, Keith (2000)

Commercial and Entertainment Arts B.A., Lone Mountain College M.A., Stanford University

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AHIS 4H

History of Western Art:

Prehistoric Through Gothic - Honors

3.0

In general, the Associate in Science degree is a twoyear occupational degree that prepares students for a variety of career and technical fields.

Associate in Science Degree - Industrial Design Engineering Degree S0331

This program is designed to prepare the student for a career in a wide range of industries including product and industrial design firms and fabrication and manufacturing companies. Students are introduced to product development from design through prototyping and fabrication for manufacturing.

Portfolio or prototype development is required on each of the semester levels. In the Level Three certificate and AS Degree course work, this will culminate in a final "senior project," which is a portfolio that includes two and three-dimensional design, documentation (accountability measures), presentation, and fabrication. This project will demonstrate the student's mastery of the concepts and methodologies learned during the program.

Students desiring a Bachelor's Degree should consult with a counselor or an educational advisor to discuss transferability of courses.

Required Courses:

IDE 110	Design Foundation - Visual Literacy	3.0
IDE 120	Intro to CAD	3.0
IDE 130	Shop Processes	3.0
IDE 150	Design Foundations	3.0
IDE 160	Intermediate CAD	3.0
IDE 170	Introduction to Prototyping	3.0
IDE 210	Advanced Media	3.0
IDE 220	Advanced CAD	3.0
IDE 230	Intro to Mechanical Principles	3.0
IDE 250	Product Design and Viability	6.0
IDE 270	Manufacturing Processes	3.0
	and Materials	
	Total Units	36.0

Recommended Electives:

ELEC 50A	Electronic Circuits (DC)
ELEC 81	Laboratory Studies
	in Electronics Technology
MATH 51	Elementary Algebra
PHYS 1	Physics 1
WELD 30	Metal Sculpture
WELD 40	Introduction to Welding

ASSOCIATE IN ARTS FOR TRANSFER/ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE

The associate degrees for transfer are designed to provide students with a seamless transition for transfer with junior standing somewhere in the CSU system.

For further information regarding degree programs, please visit the Mt. SAC catalog.

Associate in Science in Mathematics for Transfer Degree 50333

Upon successful completion of Mt. San Antonio College's Associate in Science in Mathematics for Transfer degree requirements, the student will have demonstrated understanding of differential and integral calculus of one and several variables including infinite series, vector analysis, partial derivatives and transcendental functions, as well as demonstrating knowledge of linear algebra and differential equations. This coursework will satisfy the lower division mathematics requirements at the California State University. Guaranteed admission with junior status to the CSU system will be granted in mathematics (or possibly statistics).

To earn an Associate in Science in Mathematics for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: 14.0 units

MATH 180 Calculus and Analytic Geometry 4.0

MATH 181	Calculus and Analytic Geomet	try 5	.0
MATH 280	Calculus and Analytic Geomet	ry 5	.0
List A: 5.0	units		
MATH 285	Linear Algebra	5	.0
	and Differential Equations		
List B (sele	ect one): 3.0 - 5.0 or more un	its	
CSCI 140	C++ Language	4	.0
	and Object Development		
MATH 110	Elementary Statistics	3	.0
	<u>or</u>		
MATH 110H	l Elementary Statistics - Honor	s 3	.0
MATH 120	Finite Mathematics	3	.0
PHYS 4A	Engineering Physics	5	.0
	Total Units for Major:	22.0 - 24	.0
Courses may be double-counted with either CSU-GE or			
IGETC.			

Associate in Arts in Art History for Transfer

Degree A0330

The academic discipline of Art History involves the study of visual objects as both works of art and as artifacts of the historical and cultural contexts in which they were created. The Associate in Arts in Art History for Transfer (AA-T) will provide the student with a solid foundation in both European and non—European art and visual culture from the periods of pre—history through modern. The degree program requires students to critically analyze visual objects from a variety of perspectives, utilizing various modes of analysis.

To earn an Associate in Arts in Art History for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: 9.0 units

AHIS 4 History of Western Art: 3.0 Prehistoric Through Gothic

3.0			
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History of Western Art: 3.0 Renaissance Through Modern - Honors			
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Associate in Arts in English for Transfer

Degree A0332

The Associate in Arts in English for Transfer introduces students to Literature written in English and gives them the option of studying creative writing.

Completion of the degree provides students with the core skills and knowledge needed to pursue a baccalaureate degree in English. Those core skills and knowledge include the ability to analyze literature and the ability to write researched analytical papers. Students who earn this degree will be able to write a literary analysis, analyze major themes and concerns in literature, and identify the influence of culture on human expression.

To earn an Associate in Arts in English for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: 7.0 units

ENGL 1B	English - Introduction	3.0
	to Literary Types	
	<u>or</u>	
ENGL 1BH	Introduction to Literary Types - Honors	3.0
	<u>and</u>	
ENGL 1C	Critical Thinking and Writing	4.0
	<u>or</u>	
FNGI 1CH	Critical Thinking and Writing - Honors	4.0

LIT 46

LIT 47

IGETC.

List A (select two): 6.0 units					
LIT 1	Early American Literature	3.0			
	<u>and</u>				
LIT 2	Modern American Literature	3.0			
	<u>or</u>				
LIT 6A	Survey of English Literature	3.0			
	<u>and</u>				
LIT 6B	Survey of English Literature	3.0			
	<u>or</u>				
LIT 11A	World Literature to 1650	3.0			
	<u>and</u>				
LIT 11B	World Literature from 1650	3.0			
List B (sel	ect one): 3.0 units				
Student mo	ay select any course not selected from Lis	st A			
above					
ENGL 8A	Creative Writing Fiction	3.0			
ENGL 8B	Creative Writing Poetry	3.0			
ENGL 8F	Creative Writing Non-Fiction	3.0			
ENGL 81	Language Acquisition	3.0			
List C (sele	List C (select one): 3.0 units				
Student mo	Student may select any course not selected from List A				
or List B ab	ove				
ENGL 8C	Creative Writing Novel	3.0			
JOUR 100	Mass Media and Society	3.0			
JOUR 101	Beginning News Writing	3.0			
LIT 10	Survey of Shakespeare	3.0			
LIT 14	Introduction to Modern Poetry	3.0			
LIT 15	Introduction to Cinema	3.0			
LIT 25	Contemporary Mexican American	3.0			
	Literature				
LIT 36	Introduction to Mythology	3.0			
LIT 40	Children's Literature	3.0			

The Bible as Literature

The Bible as Literature

Courses may be double-counted with either CSU-GE or

- Old Testament

- New Testament **Total Units for Major:**

Associate in Arts in History for Transfer

Degree A0334

History is a broad-based academic discipline with foundational coursework in both World History and The History of the United States, augmented with course options that add dimension and depth to the student's understanding of the discipline—such as history courses outside of the Western World, courses in the humanities or social sciences (including history) that address any historically under-represented group or non-western subject matter fulfilling transfer level GE categories and courses in foreign languages.

The degree program requires students to critically analyze material from a variety of sources and to develop links and connections in abstracting fundamental meaning of historical data. The course distribution of the degree will expose the students to the complexity and diversity of the historical past, thus placing the present day issues and problems within a meaningful historical context.

To earn an Associate in Arts in History for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses:

3.0

3.0

19.0

Core Courses: 6.0 units

- Honors

/ וכוח	history of the officed States to 1877	5.0
	<u>or</u>	
HIST 7H	History of the United States to 1877	3.0
	- Honors	
	<u>and</u>	
HIST 8	History of the United States from 1865	3.0
	<u>or</u>	
HIST 8H	History of the United States from 1865	3.0

History of the United States to 1077 20

List A (seld	ect two): 6.0 units	
HIST 3	World History: Prehistoric	3.0
	to Early Modern	
	<u>or</u>	
HIST 3H	World History: Prehistoric	3.0
	to Early Modern - Honors	
	<u>and</u>	
HIST 4	World History: Early Modern	3.0
	to the Present	
	<u>or</u>	
HIST 4H	World History: Early Modern	3.0
	to the Present - Honors	
List D /sol		

List B (select one course from each group): 6.0 - 7.0 units

Group 1: Diversity Course

AHIS 9	History of Asian Art and Architecture	3.0
AHIS 11	History of African, Oceanic,	3.0
	and Native American Art	
AHIS 12	History of Precolumbian Art	3.0
AHIS 12H	History of Precolumbian Art - Honors	3.0
ARAB 1	Elementary Arabic	4.0
ARAB 2	Continuing Elementary Arabic	4.0
CHIN 1	Elementary Chinese	4.0
CHIN 2	Continuing Elementary Chinese	4.0
CHIN 3	Intermediate Chinese	4.0
CHIN 4	Continuing Intermediate Chinese	4.0
FRCH 1	Elementary French	4.0
FRCH 2	Continuing Elementary French	4.0
FRCH 3	Intermediate French	4.0
FRCH 4	Continuing Intermediate French	4.0
FRCH 5	Advanced French	4.0
FRCH 6	Continuing Advanced French	4.0
GERM 1	Elementary German	4.0
GERM 2	Continuing Elementary German	4.0
GERM 3	Intermediate German	4.0
HIST 10	History of Premodern Asia	3.0
HIST 11	History of Modern Asia	3.0
HIST 19	History of Mexico	3.0
HIST 30	History of the African American	3.0
HIST 31	History of the African American	3.0
HIST 35	History of Africa	3.0
HIST 36	Women in American History	3.0
HIST 40	History of the Mexican American	3.0
HIST 44	History of Native Americans	3.0

ITAL 1	Elementary Italian	4.0	_	History-Related Humanities Course	
ITAL 2	Continuing Elementary Italian	4.0	AHIS 1	Understanding the Visual Arts	3.0
ITAL 3	Intermediate Italian	4.0	AHIS 1H	Understanding the Visual Arts	3.0
ITAL 4	Continuing Intermediate Italian	4.0	A1116.3	- Honors	2.0
ITAL 5	Advanced Italian	4.0	AHIS 3	History of Women and Gender in Art	3.0
ITAL 6	Continuing Advanced Italian	4.0	AHIS 3H	History of Women and Gender in Art	3.0
JAPN 1	Elementary Japanese	4.0		- Honors	2.0
JAPN 2	Continuing Elementary Japanese	4.0	AHIS 4	History of Western Art:	3.0
JAPN 3	Intermediate Japanese	4.0		Prehistoric Through Gothic	
JAPN 4	Continuing Intermediate Japanese	4.0	AHIS 4H	History of Western Art:	3.0
JAPN 5	Advanced Japanese	4.0		Prehistoric Through Gothic - Honors	
LATN 1	Elementary Latin	4.0	AHIS 5	History of Western Art:	3.0
LATN 2	Continuing Elementary Latin	4.0		Renaissance Through Modern	
LIT 20	African American Literature	3.0	AHIS 5H	History of Western Art:	3.0
LIT 25	Contemporary Mexican American	3.0		Renaissance Through Modern - Honor	
	Literature		AHIS 6	History of Modern Art	3.0
POLI 25	Politics of the Mexican American	3.0	AHIS 6H	History of Modern Art - Honors	3.0
POLI 35	African American Politics	3.0	AHIS 9	History of Asian Art and Architecture	3.0
SPAN 1	Elementary Spanish	4.0	AHIS 10	A History of Greek and Roman Art	3.0
SPAN 2	Continuing Elementary Spanish	4.0		and Architecture	
SPAN 3	Intermediate Spanish	4.0	AHIS 11	History of African, Oceanic,	3.0
SPAN 4	Continuing Intermediate Spanish	4.0		and Native American Art	
SPAN 5	Advanced Spanish	4.0	AHIS 12	History of Precolumbian Art	3.0
SPAN 6	Continuing Advanced Spanish	4.0	AHIS 12H	History of Precolumbian Art - Honors	
SIGN 101	American Sign Language 1	4.0	ANTH 5	Principles of Cultural Anthropology	3.0
SIGN 102	American Sign Language 2	4.0	ANTH 22	General Cultural Anthropology	3.0
SIGN 103	American Sign Language 3	4.0	ANTH 30	The Native American	3.0
SIGN 104	American Sign Language 4	4.0	ARTB 1	Understanding the Visual Arts	3.0
SIGN 202	American Deaf Culture	3.0	DN-T 20	History and Appreciation of Dance	3.0
			GEOG 2	Human Geography	3.0
			GEOG 2H	Human Geography - Honors	3.0
			GEOG 5	World Regional Geography	3.0
			HIST 39	California History	3.0
			HUMA 1	The Humanities	3.0
			LIT 11A	World Literature to 1650	3.0
			LIT 11B	World Literature from 1650	3.0
			MUS 12	History of Jazz	3.0
			MUS 14A	World Music	3.0
			MUS 14B	American Folk Music	3.0
			MUS 15	Rock Music History and Appreciation	3.0
			PHOT 15	History of Photography	3.0
			THTR10	History of Theater Arts	3.0
	Total Units for Major: 18.0 -				
				ay be double-counted with either CSU-GL	or
			IGETC.		