

ACKNOWLEDGMENTS

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

Editors

Terri Long, Ed.D., *Chief Editor*Clarence Brown

Editorial Assistants

Melissa Jaunal Irene Inouye Jamaika Fowler Sally Fenton Brenda Dial

Indexer

Melissa Jaunal

Design & Production

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

Photographers

Mike Taylor, *Chief Photographer*Jeffrey George

The Catalog is available in alternate formats (Braille, enlarged text, e-text, etc.) upon request. Please contact **Disabled Student**Programs & Services at (909) 274-4290.



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 2013-14 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 2013-14 College Catalog. It is a compilation of courses. programs, support services, degree offerings, and transfer information that you will need to chart your course to academic success. All of this represents our unwavering commitment-despite difficult economic times-to provide you the finest education, period!

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

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

As we head toward our 70th jubilee in a few years, Mt. SAC remains committed to student success—a tagline 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 students, we welcome you with open arms and wish you much success as you now become a part of our legacy of excellence.

William J. Smogguin Dr. William T. Scroggins

President & CEO

Board of Trustees

Dr. Manuel Baca, President Fred Chvr. Vice President Dr. David K. Hall. Clerk Judy Chen Haggerty, Esq., Member Rosanne M. Bader. *Member* Karina Maureira, Student Trustee



Contents

Accreditation and Changes in this Catalogi
President's Messageii
Contents iii-v
College Calendarvi-viii
College Directoryix
SECTION 1 — The College
•
Mt. San Antonio College
History
Mission, Vision, and Values
College Organization
SECTION 2 — Matriculation
Admission and Registration 6-8
Admissions
Application to the College
Residency Requirements
Residence Classification6
Criteria for Determination of Legal Residence6
Residence Classification Appeal 6
Concurrent Enrollment for K-12 Students
Evaluation of Other College Coursework
Acceptance of Domestic Coursework from Accredited Colleges
and Universities in the United States
Acceptance of International Coursework from Accredited Colleges
and Universities Outside the United States
Articulation with High Schools, ROPs and Adult Schools
Admission of International Students
Registration
Schedule of Classes
Enrollment Fees and Expenses
Student Representation Fee
Cancelled Classes
Student Obligations 8
Assessment and Placement
Placement Test and Elizability Time Limits
Placement Test and Eligibility Time Limits
· · · · · · · · · · · · · · · · · · ·
Appeals Process9

Ability to Benefit	9
Exemption from Assessment	9
Orientation – Credit Students	9
Counseling/Advisement	
Exemption from Orientation and Counseling/Advisement	
Prerequisites, Corequisites and Advisories	
Challenging Prerequisites and Corequisites	
SECTION 3 — Academic Policies and Requirements	
Academic Freedom	11
Attendance and Enrollment	
Attendance	
Auditing Courses	
Dropping Courses and Withdrawing from the College	
Student Unit Limits	
Basic Skills Limitation	
Repeatable Courses	
Repeating Courses Previously Passed	
Limitations on Repeating Courses	11
Petitions for Exceptional Action	12
Definitions	12
Catalog Rights	12
Credits and Grades	12-14
Definition of a Unit of Credit	12
Classification of Students	12
Grading System	12
Final Examinations	12
Pass/No Pass Grades	
Credit by Examination	13
Advanced Placement Credit for Mt. SAC General Education Requirements	
for the Associate Degree	
International Baccalaureate Credit for Mt. SAC General Education Requires	
for the Associate Degree	
Credit for Extra Institutional Learning	
Credit for Current License Holders	
Credit for Military Training	
Honors	
Academic Honors	
Graduation Honors	
Honors Program	
Alpha Gamma Sigma	15

Phi Theta Kappa	15
Academic Standards	15-16
Probation and Dismissal	15
Clearing Probation	
Probation and Dismissal Status	
Appeal of Dismissal	16
Reinstatement after Dismissal	16
Records	16
Definition of Educational Records	16
Challenge of Educational Records	
Academic Renewal	16
Transcripts	16
SECTION 4 — Student Services and Student Life	
Student Services	
Admissions and Records	18
The Aspire Program	18
Assessment Center	18
The Bridge Program	
Bursar's Office and Photo ID	
CalWORKs	
CARE (Cooperative Agencies Resources for Education)	18
Career and Transfer Services	
Counseling Center	19
Disabled Student Programs & Services (DSP&S)	
Extended Opportunity Programs & Services (EOPS)	
Financial Aid	
International Student Center	
International Student Programs	
Public Safety Escort Service	
Student Health Services	
Veterans Resource Center (VRC)	
Veterans Service Center	21
Student Life	21
Associated Students (A.S.) Student Government	
Student Clubs and Organizations	
Student Life Office/Student Center	
Student Life Center	21
SECTION 5 — Instruction and Learning Resources	
Instruction	23

Language Learning Center (LLC)	23
Math Activities Resource Center (MARC)	
Transfer Math Activities Resource Center (T-MARC)	23
Work Experience Education	23
The Writing Center	23
Library and Learning Resources	23
Distance Learning Program	
Learning Assistance Center	23
Library	23
SECTION 6 — Campus Facilities	
Campus Facilities	25.26
Art Gallery	
Athletic Facilities	
Bookstore (SacBookRac)	
Child Development Center	
Farm	
Food Services	
Performing Arts Center	
Performing Arts Center Box Office	26
Randall Planetarium	26
Wellness Center	26
Wildlife Sanctuary	26
SECTION 7 — Programs of Study Leading to a	Certificate
Programs of Study Leading to a Certificate	
Listing by Certificates of Achievement	
Listing by Skills Certificates	
Certificates of Achievement	
Skills Certificates	
SECTION 8 — Programs of Study Leading to a	n Associate in Arts Degree
or an Associate in Science	
Programs of Study Leading to an Associate Degree	
General Requirements for an Associate Degree	
Application for Graduation	
Multiple Degrees	
Residency Requirement	
Graduation Requirements for 2013-14	
General Education Requirements	
General Education Outcomes (GEOs)	
Program and Course Student Learning Outcomes	64

General Education Requirements for 2013-14	65
Alphabetical Listing – Associate in Science Degree (A.S.)	
Listing by Instructional Division – Associate in Science Degree	67
Alphabetical Listing – Associate in Arts Degree (A.A.) in Liberal Arts and	Sciences
with Specific Area Emphasis	91
Alphabetical Listing – Associate in Arts for Transfer Degree (AA-T)	97
Alphabetical Listing – Associate in Science for Transfer Degree (AS-T)	97
SECTION 9 — Transferring to California Colleges and Univer-	sities
Programs of Study Leading to Transfer	
University Transfer Major Options	
The California State University	
Transfer Admission Requirements	
CSU General Education Requirements 2013-14	
The University of California	
UC Minimum Admission Requirements	
Requirements for California Residents Transferring to UC	
Intersegmental General Education Transfer Curriculum (IGETC) 2013-14	
IGETC Certification	
California Independent Colleges and Universities	
Advanced Placement Examinations in CSU/UC General Education	
– Breadth Certification	112
SECTION 10 — Course Descriptions	
Definition of Terms	
Course Prefix Listing	
Course Descriptions	116-215
SECTION 11 — Continuing Education	
Continuing Education (Adult Education) Courses	217-248
Student Services	217
Vocational Programs	217
Adult Basic Education	
English as a Second Language	
Language Learning Center (LLC)	
Health Careers Resource Center (HCRC)	
Education for Older Adults	
Other Community Education Services and Programs	218

Noncredit List of Certificates	219
Certificates	220-229
Noncredit Course Listings	230-233
Noncredit Course Descriptions	
SECTION 12 — College Policies and Notices	
College Policies	250-252
Accommodations and Academic Adjustments for Students with Disabilities .	
Alcohol and Other Drugs	250
Animals on Campus	250
Campus Disturbances	250
Campus Hours	250
Children on Campus	
Classroom Visitors and other Attendees	
Dress Regulation	
Driving and Parking	
Eye Protection	
Non-Discrimination Policy	
Reserve Officer Training Corps (ROTC)	
Sexual Harassment and Sexual Violence	
Smoking on Campus	
Standards of Conduct	
Student Academic Honesty	
Student Complaints/Grievance Process	
Notices	
Equal Opportunity Statement	
Open Enrollment	
Public Safety	
Notice of Students' Rights and Privacy Act	
1996 Solomon AmendmentTransfer of Information to Third Parties	
Student Right-to-Know Rates	234
SECTION 13 — Faculty and Academic Administrators	
Faculty and Academic Administrator Listings	256-267
Index	268
Campus Map	274

AUGUST 2013 Su M T W Th F Sa 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

•	SEP	TEN	ИВЕ	R 2	013	3
Su	M	Т	w	Th	F	Sa
1				5		
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

	OC	TO	BER	R 20	13	
Su	M	Т	w	Th	F	Sa 5
		1	2	3	4	5
6		Ö	9	10	11	12
						19
20	21	22	23	24	25	26
27	28	29	30	31		

ا	NO	VEN	ΙВΕ	R 2	013	3
Su	M	Т	W	Th	F	Sa
						2
3	4	5	6	7	8	9
3 10	11	12	13	14	15	16
17	18	19	20	21	22	23
17 24	25	26	27	28	29	30

	DE	CEN	IBE	R 2	013	
Su	M	Т	W	Th	F	Sa
-	_	-		5	-	-
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2013-14 College Calendar

Fall 2013

August 26	2013 Fall Semester begins
September 2	Labor Day (campus closed)
September 6	Last day to add a class
September 6	Last day to change residency for 2013 Fall Semester
October 7	Last day to petition for Fall Semester graduation
November 11	Veteran's Day (campus closed)
November 13	Registration begins for 2014 Winter Intersession
November 28 - December 1	Thanksgiving Recess (campus closed)
December 4	International student application due for 2014 Spring Semester
December 6	Last day to petition for Winter Intersession graduation
December 9 - 15	Final Exams (see: www.mtsac.edu/finalexams for schedule)
December 15	2013 Fall Semester ends
December 16 - January 5	Winter Recess for students

2013-14 College Calendar

Winter 2014

January 1, 2014	New Year's Holiday (campus closed)
January 6	2014 Winter Intersession begins
January 15	Registration begins for 2014 Spring Semester
January 20	Martin Luther King, Jr. Day (campus closed)
February 14	Lincoln's Birthday (campus closed)
February 16	2014 Winter Intersession ends
February 17	Washington's Birthday (campus closed)

Spring 2014

February 24	2014 Spring Semester begins
March 31	Cesar Chavez Day of Observance (campus closed)
May 14 May 26	Registration begins for 2014 Summer Intersession Memorial Day (campus closed)
June 9 - 15 June 13 June 13	Final Exams Commencement 2014 Spring Semester ends

JANUARY 2014							
Su	M	Т	w	Th	F	Sa	
			1	2	3	4	
						11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	31		

	FEBRUARY 2014							
Su	M	Т	W	Th	F	Sa 1		
2 9	3	4	5	6 13	7	8		
9	10	11	12	13	14	15		
16	17	18	19	20 27	21	22		
23	24	25	26	27	28			

MARCH 2014								
Su	M	Т	W	Th	F	Sa		
						1		
2	3	4	5	6	7	8		
9	10	11	12	13	14	15		
16		18	19	20	21	22		
23	24	25	26	27	28	29		
	31							

APRIL 2014							
Su	M	Т	W	Th	F	Sa	
		1	2	3		5	
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30	10 17 24 31			

MAY 2014							
Su	M	Т	w	Th	F	Sa	
				1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	15 22	23	24	
25	26	27	28	29	30	31	

JUNE 2014								
Su	M	Т	W	Th	F	Sa		
1	2	3	4	5 12	6	7		
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30					7 14 21 28		

JULY 2014							
Su	M	Т	W	Th	F	Sa	
		1		3	4	5	
6	7	8	9		11	12	
13	14	15	16	17			
20				24	25	26	
27	28	29	30	31			

AUGUST 2014							
Su	M	Т	W	Th	F	Sa	
					1	2	
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
	25	26	27	28	29	30	
31							

•	SEPTEMBER 2014								
Su	M	Т	w	Th	F	Sa			
	1	2	3	4	5	6			
7	8	9	10	11	12	13			
14	15	16	17	18	19	20			
		23	24	25	26	27			
28	29	30							

OCTOBER 2014								
Su	M	Т	w	Th	F	Sa 4 11 18 25		
			1	2	3	4		
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
19	20	21	22	23	24	25		
26	27	28	29	30	31			

NOVEMBER 2014							
Su				Th		Sa	
9 16	10 17	11 18	12 19	6 13 20 27	14 21	15 22	

	DE	CEN	IBE	R 2	014	
Su	M	Т	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

2013-14 College Calendar

Summer 2014

June 23	2014 Summer Intersession begins	
July 4 July 16	Independence Day (campus closed) Registration begins for 2014 Fall Semester	
August 3	2014 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.

	For direct acce	ss to the omc
Academic Counselor for Student Athletes	5929	*ESL & Intercult
Academic Senate	5436	Event Services.
*Accounting & Management	4909, 4910	Exercise Science
ACES Program		Extended Oppo
Adult Basic Education Center	4845	Facilities Planni
Advising		Faculty Associat
Administrative Services	4230	Farm Tours
Admissions & Records		Fashion Mercha
*Aeronautics & Transportation	5008	Financial Aid
Affirmative Action	4225	*Fine Arts
*Agricultural Sciences	4540	*Fire Technolog
*Air Conditioning, Water Technology & Welding	5107, 4638	Fiscal Services .
*Aircraft Maintenance & Manufacturing Technology		*Foreign Langu
*Alumni Association		Foundation Offi
*American Language	6313	*Geography & I
*Architecture & Engineering Design	4803	Grants Office
Art Gallery	4328	Grounds Service
*Arts Division	5200	*Health Center
Aspire	6396	Help Desk (IT)
Assessment Center	4265	High School Ou
Associated Students	4526	*History & Art I
*Athletics		*Histotechnolo
Auxiliary Services	4470	Honors Progran
*Biological Sciences	4013	Horticulture Un
Bookstore (SacBookRac)		Hospitality Mar
Bridge Program	5392	Housing Inform
Broadcast Services	4274	*Humanities &
*Business Administration	4612	Human Resourc
Business Division	4600	Information Tec
Bursar's Office	4960	Instruction Offi
CalWORKs	4755	*Kinesiology, A
Campus Café (Sodexo - for all food service locations)	5284	KSAK Studio
Campus Security	4555, 4299	*Language Lea
Campus Tours	4293	*Learning Assis
CARÉ		Learning Lab
Career & Transfer Services	4510	Library
Center of Excellence	6106	*Library & Lear
*Chemistry		Lost & Found (S
*Child Development		Mail Services
Child Development Center	4920	Maintenance &
*Communication		Marketing & Pu
Computer Information Systems		*Mathematics,
*Continuing Education Division	4220	*Medical Service
*Consumer Science & Design Technologies	4139	*Mental Health
Contract Education		Mountaineer
*Counseling		*Music
CSEA 262		*Natural Science
Custodial Services		*Noncredit Pro
*Dance		*Nursing Depar
Disabled Student Programs & Services (DSP&S)	4290	Online Learning
Distance Learning		Parking Office
*Earth Sciences & Astronomy		Parking Service
*Electronics & Computer Technology		*Paralegal
	6332	Payroll

*ESL & Intercultural Programs	_	1726
Event Services		
Exercise Science/Wellness Center	•••	4/9/
Exercise Science/ Weiliness Center	•••	4020
Extended Opportunity Programs & Serv. (EOPS)		
Facilities Planning & Management	•••	4850
Faculty Association		
Farm Tours		
Fashion Merchandising & Design		
Financial Aid		4450
*Fine Arts	55,	4/52
*Fire Technology		
Fiscal Services		
*Foreign Languages458		
Foundation Office		4215
*Geography & Political Science		
Grants Office		
Grounds Service Requests		
*Health Center		4400
Help Desk (IT)		4357
High School Outreach		5906
*History & Art History		
*Histotechnology		4884
Honors Program		
Horticulture Unit		
Hospitality Management Coordinator		
Housing Information		
*Humanities & Social Sciences Division		
Human Resources		
Information Technology		
Instruction Office		
*Kinesiology, Athletics & Dance Division		4630
KSAK Studio	•••	4678
*Language Learning Center	•••	4580
*Learning Assistance Center		
Learning Lab		
Library		
*Library & Learning Resources Division	•••	5650
Lost & Found (Student Life)	•••	1575
Mail Services		
Maintenance & Operations	•••	421Z
Maintenance & Operations	•••	400U
Marketing & Public Affairs Office		
*Mathematics, Computer Sciences		
*Medical Services Department		
*Mental Health Technology		
Mountaineer		
*Music		
*Natural Sciences Division		
*Noncredit Programs		
*Nursing Department	•••	4560
Online Learning Support Center		
Parking Office		
Parking Services Cashier		4299
*Paralegal490		
Dayroll		1210

Performing Arts Center Box Office(909) 468-4050, x	(2050
Performing Arts Operations	5623
Photographics	
Photo I.D.	
*Physical Therapy Aide	
*Physics, Engineering	4421
Planetarium Shows	
Planetarium Tour	
Presentation Services	4273
President & Board of Trustees	4250
Printing Services	4255
Professional & Organizational Development	4504
*Psychology & Education	5369
*Psychiatric Technician	4750
Public Safety	
*Public Services	4654
Purchasing	4245
*Radiologic Technology	
Real Estate	
Re-Entry Center	4392
*Registered Veterinary Technology	4544
Registration	4415
Research & Institutional Effectiveness	4109
*Respiratory Therapy	4750
Risk Management	
SacBookRac	4475
Security (Campus)	4555
*Service Learning	
*Sign Language	4443
*Sociology & Philosophy	4591
Sodexo (Campus Cafe - for all food service locations)	5284
Special Events	4840
Speech/Sign Success Center	6297
Stadium Ticket Office	
Student Center	
Student Life & Student Clubs	4525
Student Services, Dean	6909
Student Services, V.P. Office	
Study Abroad	
*Teacher Prep Institute	
Technical Services	4799
*Technology & Health Division	4750
Technology Education Resource Center	4597
*Theater	
Transfer Center	
Transportation	
Tutorial Services	6605
Upward Bound	5634
Veterans' Service Center	4520
Warehouse	
Wellness Center	
Wildlife Sanctuary Tours	
Writing Center	
*Instructional programs and depart	ments





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 42 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 2012 Mt. SAC proudly celebrated 66 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 support students in achieving their educational 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

BOARD OF TRUSTEES	
President	Dr. Manuel Baca
Vice President	Fred Chyr
Clerk	Dr. David K. Hall
Member	Judy Chen Haggerty, Esq.
Member	
Student Trustee	Karina Maureira
College President & CEO	Dr. William Scroggins

ADMINISTRATION	
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	Becky Mitchell
Project Manager, Facilities	Roger Sneed
Assistant Director, Fiscal Services	Vacant
Director, Grounds and Transportation	Carol Baker
Manager, Payroll	Richard Lee
Director, Public Safety	Mark DiMaggio
Assistant Director, Public Safety	Michael Montoya
Manager, Purchasing	
Director, Safety, Health Benefits, and Risk Management	Karen Saldana
Director, Technical Services	William Eastham
Human Resources	Ext. 4225
Vice President, Human Resources	James Czaja
Director, Human Resources	Vacant
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	Shanti Atashpoush
Interim Manager, Data and Network Security	

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. Irene Malmgren
Dean, Instructional Services	Dr. Terri Long
Dean, Arts Division	Dr. Susan Long
Dean, Business Division	Dr. Joumana McGowan
Associate Dean, Business Division (Interim)	Jennifer Galbraith
Director, Child Development Center	Tamika Addison
Dean, Humanities and Social Sciences Division	
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 (Interim)	Matthew Judd
Associate Dean, Natural Sciences Division (Interim)	Karelyn Hoover
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	
Coordinator, ESL Curriculum and Assessment	
Director, Grants	
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	Thomas Mauch
Dean, Student Services	
Dean, Enrollment Management	Dr. George Bradshaw
Assistant Director, Admissions and Records	
Director, Upward Bound	
Director, Assessment and Matriculation	
	•

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
Interim Director, Health Services	Marguerite Whitford
Director, Student Life	Dr. Maryann Tolano-Leveque

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, and Photography.

Business Division Ext. 4600

Dr. Joumana McGowan, Dean

Jennifer Galbraith. Associate Dean (Interim)

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 20 Associate in Science degrees, two Associate in Arts degrees, and 69 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, 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/Athletics Director

Debbie Cavion, Associate Dean / Associate Athletics Director

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 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

Matthew Judd, *Dean (Interim)*

Karelyn Hoover, Associate Dean (Interim)

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 Industrial Design Engineering, 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.



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.
- 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 eligible to establish California residency for tuition purposes.

Criteria for Determination of Legal Residence

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

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

Burden of Proof

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

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;
- 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 (Must be paid in U.S. currency (check or money order) made payable to Mt. San Antonio College.
 Personal checks must have the accountholder's name and address preprinted on them.
- Confidential Financial support documents
- Qualifying score from one of the following College approved tests:
 - 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 school year are as follows:

	Application Deadline	Classes Begi
Fall Semester	First Monday of June	Late August
Summer Intersession	First Monday of April	Late June
Spring Semester	First Monday of November	Late February

F-1 Visa students can obtain all application materials from our College Website at *http://www.mtsac.edu/international/index.html*TOEFL 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.

Student Representation Fee

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

Refund of Fees

To be eligible for a refund, students must drop their classes by the refund deadline for that class. The deadline can be found on their Student Schedule/Receipt. If the student's class has been officially dropped, or cancelled by the College, the student will receive a refund. 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;
- 2. 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.

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. Visit http://mtsac.edu/counseling/orientation.html

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.

SECTION



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/governance/trustees/policies.html

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. (BP 4030, 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.

Professors 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 professor 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.

Basic Skills Limitations

Students are limited to completing no more than 30 units of courses identified as "Pre-collegiate Basic Skills" while enrolled at Mt. SAC. Courses in this category include pre-collegiate basic skills courses in Math, English, Reading, and Learning Skills. Students enrolled in the American Language program and students with learning disabilities are exempted from this policy. Waivers to exceed the 30 unit limit are available to students who show significant progress and will be limited to a specified period of time and/or number of units. Students requesting this waiver must submit a Petition for Exceptional Action to the Board of Appeals. Petitions are available in the Counseling Center and in Admissions & Records. Students who reach 30 units of pre-collegiate basic skills courses and who are not ready to pursue degree applicable courses are subject to remedial dismissal. (BP 4220, AP 4222)

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

Courses for which satisfactory grades of "A," "B," "C," or "Pass" are received may not be repeated, according to current State regulations. Only upon extenuating circumstances will repetition in courses for which the student has satisfactorily passed be allowed. Students with extenuating circumstances may file a Petition for Exceptional Action form in the Admissions and Records Office. Students who repeat courses based on this provision will not earn additional units or grade points toward improving or changing the previous grade earned in the class or toward changing the overall grade point average.

Limitations on Repeating Courses

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.

Academic Policies and Requirements

Petitions for Exceptional Action

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

Definitions

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

Continuing Student:

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

Catalog Rights

- 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.
 - 2. Maintain "continuous attendance" at a regionally accredited post-secondary institution while away from Mt. SAC.
 - 3. Not be absent from Mt. SAC for four or more 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. During intersessions, 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.

GRADING SCALE				
Evaluative Symbol	Definition	Grade Point Value		
A	Excellent	4		
В	Good	3		
С	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.)			

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

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. (BP 4230, 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.

ADVANCED PLACEMENT EXAMINATIONS					
AP Examination Sco	ore 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
<u>Calculus BC</u>	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	on 3	A1	3	ENGL 1A	6
English Literature and Composition	on 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: Compa	rative 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
Music Theory	3	C 1	3	MUS 7	6
Physics B	3	B1	3	None	6
Physics C: Electricity and Magnet	ism 3	B1	3	None	4
Physics C: Mechanics	3	B1	3	None	4
Psychology	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	3 Gen			edit based on portfolio revew	3
Studio Art- 3D				edit based on portfolio revew	3
Studio Art- Drawing				edit 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
*A score of 3 on the Calculus AB Advanced P	lacement Exam will earn a student three (.	3) dearee applicable units. Ma	th Competency and Eliai	bility for MATH 180.	

^{*}A score of 3 on the Calculus AB Advanced Placement Exam will earn a student three (3) degree applicable units, Math Competency and Eligibility for MATH 180

Academic Policies and Requirements

- Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."
- 3. A student may petition for Credit by Examination provided:
 - a. The student has been registered at Mt. San Antonio College.
 - The student has not already received credit nor is currently enrolled beyond six weeks in the same course or in a more advanced course (except for Advanced Placement Course Credit).
 - The student has at least a 2.0 grade point average. This includes transfer/new students.
- 4. The student may obtain the petition for Credit by Examination from the Division Office.
- The department will establish written guidelines by which the eligibility of a student to take such an examination is determined.
- 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.
- 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.

INTERNATIONAL BACCALAUREATE PROGRAM					
International Baccalaureate (IB) Higher Level (HL) Exam	Score Needed for Equivalency	Mt. SAC 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

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.
- 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 priority admission consideration from the following universities: UCLA, UC Irvine, Chapman University, Pitzer College 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 medal upon honors certification.

Entrance Requirements

 High School Students — Eligibility for ENGL 1A; 3.5 GPA; letter of recommendation; short essay Mt. San Antonio College Students — Nine transferable units; Eligibility for ENGL 1A; 3.2 GPA, short essay, letter of recommendation (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 15 units of honors courses 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:

- 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
 - a. Academic Probation occurs at the end of that first semester in which the student has attempted at least 12 units and has earned a cumulative grade point average below 2.0, or
 - b. Progress Probation occurs at the end of that first semester in which the student has attempted at least 12 units and the cumulative percentage of all units in which the student has enrolled for which entries of "W", "I" and "NP" are recorded reaches or exceeds fifty percent.
- 2. Continued Probation
 - 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.
- 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 term 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:

 inaccurate; 2) an unsubstantiated personal conclusion or inference;
 a conclusion or inference outside of the observer's area of competence; or 4) not based on the personal observation of the named person with the time and place of the observation noted.
- If the student is not satisfied with the determination made by the Dean, Enrollment Management, the student may utilize the existing college student grievance process.

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.
- 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. (BP 4240, AP 4240)

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

http://www.mtsac.edu/admissions

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 eligibility 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://my.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

http://www.mtsac.edu/aspire

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 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

http://www.mtsac.edu/assessment

Students may complete required English, Reading, and Math placement testing in the Assessment Center. Assistance in reviewing course placement is also provided.

The Bridge Program Building 9D, Ext. 5392

http://www.mtsac.edu/bridge

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

http://www.mtsac.edu/bursars

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

http://www.mtsac.edu/calworks

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
- Advocac
- 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

http://www.mtsac.edu/care

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

http://www.mtsac.edu/counseling

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

http://www.mtsac.edu/dsps

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

To take advantage of the wide array of special programs and services offered, written documentation of disability must be provided by a physician or appropriate professional; the disability must present a limitation to a suc-

cessful 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," must display on their vehicles a "Disabled Person" placard or "DP" license plate from the State of California Department of Motor Vehicles. Students with a current "Disabled Person" permit and placard or a "DP" license plate 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

http://www.mtsac.edu/eops

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 http://www.mtsac.edu/financialaid

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 eligibility 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:

- 1) the date the student officially notified the Admissions and Records Office of his or her intent to withdraw, or
- 2) the midpoint of the semester for a student who leaves without notifying the college, or
- 3) the student's last date of attendance at a documented 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 or visit http://www.mtsac.edu/scholarships.

California Dream Act

The California Dream Act of 2011 consists of two bills, Assembly Bill 130 (AB 130), signed into law by Governor Jerry Brown on June 25, 2011; and Assembly Bill 131 (AB 131) signed into law by Governor Brown on October 8, 2011. As a result of the California Dream Act, those students who are eligible for the non-resident tuition exemption (under Assembly Bill 540, or AB 540), but who are ineligible for federal financial aid are now eligible to receive grants and scholarships from the State of California and institutional sources, such as Board of Governor's Fee Waiver (BOG), Cal Grant, and/or institutional scholarships.

Under AB 540, a student who is without a valid immigration status may request exemption from paying nonresident tuition if the student:

Attended a California high school for 3 or more years, AND Graduated from a California high school or passed the GED or California High School Proficiency Exam.

Students who wish to qualify as AB 540 students must complete and submit a California Nonresident Tuition Exemption Request (sometimes referred to as an AB 540 Affidavit) with required documentation to the Admissions and Records Office at Mt. SAC.

The California Student Aid Commission's Dream Act Application (https://dream.csac.ca.gov/) is used to determine the financial eligibility of students who meet the qualifications of AB 540, and who are without a valid immigration status. The application collects basic personal and income information to determine student eligibility for funding under AB 131. Apply between January 1 and March 2 of each year for priority consideration.

Students will need to complete the Dream Application every year to determine eligibility for state and institutional aid. Students should complete and submit Mt SAC's AB 540 Affidavit (California Non-Resident Tuition Exemption Request form) in order to begin a review of eligibility under AB 540.

The International Student Center Student Services Center, Ext. 5032

http://www.mtsac.edu/international/student-center.html

The International Student Center, located on the upper level of the Student Services Center (9B), is a place where F-1 students can connect with one another and the international community. Students will find comfortable spaces to network with friends, computer stations available for their academic needs as well as referrals to student services and resources. Students with questions related to the College or a personal need will find friendly staff available to assist.

International Student Programs Student Services Center, Ext. 4415

http://www.mtsac.edu/international

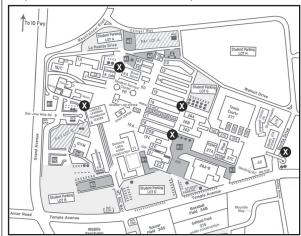
Mt. San Antonio College annually welcomes hundreds of international students on F-1 Visas to pursue a higher education. International students must complete and submit additional application materials and pay non-resident fees to study at the College. Specialized counseling assistance is available. Staff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

Public Safety Escort Service, Ext. 4233 http://www.mtsac.edu/safety

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) 274-4233.

Escort Location Map

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



Student Health Services Building 67B, Ext. 4400

http://www.mtsac.edu/students/healthcenter

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

http://www.mtsac.edu/veterans/vrc.html

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

http://www.mtsac.edu/veterans

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. "Ws,""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

http://as.mtsac.edu

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

http://www.mtsac.edu/studentlife

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

http://www.mtsac.edu/studentlife/studentlifecenter.html

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.

FIVE Instruction and Learning Resources Committed to Student Success

INSTRUCTION

The Office of Instruction provides a wide range of services essential to student success in an environment of academic excellence.

Language Learning Center (LLC) Building 6, Room 264 South Entrance, Upper Level, Ext. 4580

The Language Learning Center (LLC) offers computer, web, and other media resources for students learning English as another language as well as those studying foreign languages.

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.

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:

- 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.
- 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.
- 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.

LIBRARY AND LEARNING RESOURCES 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.

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.







Campus Facilities

Committed to Student Success

CAMPUS FACILITIES Art Gallery

Building 1B, Ext. 4328

http://artgallery.mtsac.edu

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, 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, strength-training facilities, an Olympic size swimming pool, and an Exercise Science/Wellness Center.

Bookstore (SacBookRac) Building 9A, Ext. 4475

http://bookstore.mtsac.edu

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

http://www.mtsac.edu/students/childcenter

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-parents, staff and faculty, 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.

According to State Law, children must meet general health requirements to enroll/attend. ALL student-parents must be enrolled in 6 or more units of credit coursework, or demonstrate a basic "need for care" to generally be accepted into the program.

State Preschool Program

State Preschool Program funding is available for eligible student-parents of 3 and 4 year old children (4 year-old children have priority). A minimum daily fee, established by the State, may apply.

General Childcare Funding

General Childcare funding is available for income and need eligible families. This funding applies to infants - 2 year olds. A minimum daily fee, established by the State, may apply.

Child Care Access Grant Funding

Student-parents who receive or are eligible to receive a Pell Grant may qualify for this childcare/early education funding. Funds are limited.

Alternative Payment Program (CalWORKS)

The Child Development Center accepts "Alternative Payments" or fees from community agencies and programs such as CalWORKS for childcare. Interested parents must inquire with their individual CalWORKS Eligibility Worker or GAIN Worker.

Fee Program

Families ineligible for childcare/early education subsidies may enroll in the Fee-based program. The fee schedule is available by contacting the Child Development Center at Ext. 4920

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.

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

http://www.mtsacdining.com

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) 274-2050

Box Office Fax: (909) 274-2055

https://tickets.mtsac.edu

The Mt. San Antonio College Performing Arts Center Box Office is located in the Performing Arts Center Complex adjacent to the Sophia B. Clarke Theater. The current season of events is available on the Box Office website. Ticket orders are accepted online, by telephone or in person. Major credit cards are accepted. All sales are final. Ticket exchanges may be available depending upon the event.

Randall Planetarium Building 26C, Ext. 4425

http://planetarium.mtsac.edu

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.

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. 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.

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.



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. 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 in Section 11 - Continuing Education.

CERTIFICATES OF ACHIEVEMENT

Accounting30
Accounting — Computerized
Accounting – Computerized
Accounting – Managerial
Administrative Assistant Level II
Administrative Assistant Level III
Air Conditioning and Refrigeration
Aircraft Powerplant Maintenance
Technology – Day31
Aircraft Powerplant Maintenance
Technology – Evening
Airframe Maintenance Technology — Day 31
Airframe Maintenance Technology — Evening 32
Alcohol/Drug Counseling32
Animation — 3-D and CG Gaming32
Animation — Game & Interactive Multimedia
Design II
Animation — Tradigital Level II 33
Architectural Technology — Level I
Architectural Technology — Design
Concentration Level II
Architectural Technology — Design
Concentration Level III34
Architectural Technology — Technology
Concentration Level II34
Architectural Technology — Technology
Concentration Level III34
Building Automation34
Business: Human Resource
Management – Level II
Business: Human Resource
Management – Level III
Business: International – Level II
Business: International – Level III
Business: Management – Level II
Business: Management – Level III
Business: Retail Management – Level II 36
Business: Retail Management – Level III 36
Business: Small Business
Management — Level II
Business: Small Business
Management – Level III

	Children's Program Certificate: Administration	37
	Children's Program Certificate:	
	General – Level II	37
	Children's Program Certificate:	
	General – Level III	37
	Children's Program Certificate: Teaching	
	Computer and Networking	
	Technology — Level I	38
	Computer and Networking	
	Technology — Level II	38
	Computer Graphics — Multimedia Specialist	
	Computer Graphics — Print Specialist	39
	Computer Systems Technology	
	Construction Inspection	
	Consumer Relations	
	Correctional Sciences	
	Electronic Systems Technology — Level II	ر ۱۸
	Electronics and Computer	+0
	Engineering Technology4	4٥
	Electronics Communications	
	Electronics Communications	
	Electronics: Industrial Systems	41
	Emergency Medical	44
	Technician — Paramedic (EMT-P)	
	Engineering Design Technology — Level I	42
	Engineering Design Technology — Level II	
	Engineering Design Technology — Level III	
	Fashion Design — Level I	
	Fashion Design — Level II	
	Fashion Merchandising — Level I	
	Fashion Merchandising — Level II	
	Fire Technology4	
	Graphic Design - Level II	
	Horse Ranch Management4	44
	Hospitality: Hospitality	
	Management – Level II	
	Industrial Design Engineering - Level I	
	Industrial Design Engineering - Level II	
	Industrial Design Engineering - Level III	
	Infant/Toddler Development4	
	Interior Design Kitchen and Bath Specialization 4	45
ı	Interior Decian: Level II	15

SKILLS CERTIFICATES

CERTIFICATES OF ACHIEVEMENT (CONTINUED)				
Interior Design: Level III	Real Estate Broker Certificate			

Accounting — Bookkeeping 52	El
Accounting – Payroll 52	E
Administrative Assistant – Level I 52	Fa
Animation - Game & Interactive	Fi
Multimedia Design I 52	G
Animation - Tradigital Level I 52	G
Athletic Trainer Aide I 52	Н
Business: Human Resource	Н
Management – Level I53	Н
Business: International – Level I	
Business: Management – Level I53	Н
Business: Retail Management – Level I 53	
Business: Small Business	Н
Management – Level I53	
Children's Program	l Ir
Certificate: General – Level I53	l Ir
CIS Professional Certificate	l Ir
in C++ Programming53	
CIS Professional Certificate in Excel and Access 54	L
CIS Professional Certificate	l M
in Java Programming54	l M
CIS Professional Certificate in LINUX54	N
CIS Professional Certificate	N
in Network Security54	P
CIS Professional Certificate in Networking 54	
CIS Professional Certificate in Object-Oriented	P
Design & Programming55	R
CIS Professional Certificate in SQL	
CIS Professional Certificate	R
in Telecommunications55	R
CIS Professional Certificate	W
in Visual Basic Programming55	•
CIS Professional Certificate	
in Web Programming56	
CIS Professional Certificate in Windows Operating	
System Administration	
Coaching	
Computer Graphics Technology Proficiency 56	
Culinary Arts56	
Dance Teacher	
Electronic Assembly and Fabrication	
Electronic Assembly und rabilication	

Electronic Systems Technology — Level I 57
Emergency Medical Technician – Level I 57
Fashion Design — Computer-Aided 57
Fitness Specialist/Personal Trainer 57
Gallery Design/Operation and Art Profession 58
Graphic Design Level I
Hospitality: Catering58
Hospitality: Food Services
Hospitality: Hospitality
Management – Level I
Hospitality: Restaurant
Management – Level I58
Hospitality: Restaurant
Management – Level II
Information and Operating Systems Security 58
Interior Design: Level I59
Introduction to Computer
Information Technology
LVN 30-Unit Option — Career Mobility Track 59
Machine Operator
MasterCAM
Microcomputer Productivity Software
Nutrition
Pilates Professional Teacher Training Phase I:
Mat and Reformer60
Programming in Visual Basic61
Radio Broadcasting: Behind-the-Scenes
– Level I 61
Radio Broadcasting: On-Air — Level I
Real Estate Sales Certificate
Welding 61

CERTIFICATES OF ACHIEVEMENT

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 (19.5 Units).

Plus the following courses:

	Total Units	28.5 - 30.0
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:

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

BUSA 81	Work Experience in Accounting	1.0		
BUSO 5	Business English	3.0		
	<u>or</u>			
BUSO 25	Business Communications	3.0		
Required	Electives			
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 Manageria	1.0		
	Accounting			
	<u>or</u>			
BUSA 81	Work Experience in Accounting	1.0		
CISB 15	Microcomputer Applications	3.5		
Select 3.5 Units from:				
BUSA 81	Work Experience in Accounting	1.0		
CISB 11	Computer Information Systems	3.5		
CISB 21	Microsoft Excel	3.0		
	Total Units	18.0		

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:

nequirea courses.				
BUSA 7	Principles of Accounting - Financial	5.0		
BUSA 8	Principles of Accounting - Manageria	l 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 Manageria	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.

Required Courses:

BUSA 7	Principles of Accounting - Financial	5.0
BUSA 8	Principles of Accounting - Managerial	
BUSA 21	Cost Accounting	4.5
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	19.5

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: (12.5 Units)

BUSO 5	Business English	3.0	
CISI 11	Computer Keyboarding	3.0	
CISB 15	Microcomputer Applications	3.5	
CISI 41	Office Management Skills	3.0	
PLUS the Level II coursework as follows: (6.0			
Units)			
BUSO 25	Business Communications	3.0	
CISB 31	Microsoft Word	3.0	
	Total Units	18.5	

Administrative Assistant - Level III Business Division Certificate T0517

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: (12.5)

BUSO 5	Business English	3.0	
CISB 15	Microcomputer Applications	3.5	
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: (9.0			
Units)			

CISB 21 Microsoft Excel 3.0 CISB 51 Microsoft PowerPoint 3.0 CISB 61 Desktop Publishing Software 3.0 Total Units 27.5

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 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 65A	Aircraft Powerplant Maintenance Technology	13.0
AIRM 65B	Aircraft Powerplant Maintenance	13.0
	Technology: Reciprocating and Turbi	ne
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	Aircraft Materials and Processes	1.5
AIRM 73	Aircraft 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 Technology	0.5
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:

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

AIRM 96A	Aircraft Powerplant Maintenance	3.0
	Technology: Turbine Engines	
AIRM 96B	Aircraft Powerplant Maintenance	3.0
	Technology: Propellers	
AIRM 97A	Aircraft Powerplant Maintenance	3.0
	Technology: Instrumentation	
AIRM 97B	Aircraft Powerplant Maintenance	3.0
	Technology: Fuel Meter Systems	
AIRM 98A	Aircraft Powerplant Maintenance	3.0
	Technology: Ignition Systems	
AIRM 98B	Aircraft Powerplant Maintenance	3.0
	Technology: Lubricating Systems	
	Total Units	39.0
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

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	Aircraft Airframe Maintenance Structures	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	Aircraft Materials and Processes	1.5
AIRM 73	Aircraft 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 Technology	0.5
EDT 12 PHYS 1	Technical Engineering Drawing II Physics	3.0 4.0

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	3.0
AIRM 70B	Aircraft Maintenance Electricity	3.0
7111111700	and Electronics	3.0
AIRM 71	Aviation Maintenance Science	6.0
AIRM 72	Aircraft Materials and Processes	1.5
AIRM 73	Aircraft Welding	1.5
AIRM 90A	Airframe Maintenance Technology	3.0
AIRM 90B	Airframe Maintenance Technology:	3.0
	Structure and Design	
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
	Systems	
AIRM 93B	Airframe Maintenance Technology:	3.0
	Fire Suppression	
	Total Units	39.0
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

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:

nequirea 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 s	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 Lifespan Development	3.0		
	<u>or</u>			
CHLD 10H	Child Growth	3.0		
	and Lifespan Development - 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 4	41.0		

Selection Procedure

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

Special Instructions

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

Working Environment:

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

English Language Skills:

Although proficiency in English is not a 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 – 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.

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 and Lighting	3.0
ANIM 136	Animation Environment and Level Design	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
	of the following courses (3 units):	
ANIM 145	Advanced 3-D Modeling	3.0
ANIM 146	Advanced 3-D Animation	3.0
		36.0
	nded Electives	
ANIM 109	Advanced Principles of Animation	3.0
ANIM 120	Script Development for Animation	3.0
	Work Experience in New Digital Medi	
ANIM 175	Web Animation With Flash	3.0
ARTC 290	Portfolio	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 – Game & Interactive Multimedia Design II

Arts Division Certificate L0340

This multi-level certificate program offers skills needed for creative careers that integrate animation with gaming, video, audio, graphics, and special effects for the Web, broadcast, film, presentation, or

mobile content. The Animation - Game & Interactive Multimedia Design Level II certificate provides additional expertise for employment opportunities in areas of game design, digital animation, motion graphics, and special effects.

Required Courses:

Completion of Animation - Game & Interactive Multimedia Design Level I coursework (12 units) ARTC 100 Graphic Design I 3.0 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

PLUS the following courses (9 units)

	Total Units	21.0
ARTC 290	Portfolio	3.0
ANIM 151	Game Prototype Production	3.0
ANIM 141	2D Game Level Design	3.0

Recommended Elective:

ANIM 137A	Work Experience
	in New Digital Media

Animation - Tradigital Level II Arts Division Certificate L0338

This multi-level certificate program provides skills based on the principles of storytelling and animation using both traditional and digital media. This Animation - Tradigital Level II certificate provides additional expertise leading to employment opportunities as animators, character designers, and storyboard artists for television, film, Web, mobile media, and gaming.

Required Courses:

Completion of the Animation - Tradigital Level I coursework (15 units)

		()	
ANIM	101A	Drawing - Gesture and Figure	3.0
ANIM	108	Principles of Animation	3.0
ANIM	111A	Animal Drawing	1.5
ANIM	115	Storyboarding	3.0
ANIM	116	Character Development	1.5
ANIM	104	Drawing Fundamentals	3.0
		<u>or</u>	
ARTD	15A	Drawing: Beginning	3.0

PLUS the following Level II coursework (9 units) ARTC 100 Graphic Design I ANIM 175 Web Animation With Flash 3.0 ARTC 290 Portfolio 3.0 **Total Units** 24.0 Recommended Electives:

ANIM 137A	Work Experience in New Digital Media	1.0
ARTD 17A	Drawing: Life	3.0
ARTD 16	Drawing: Perspective	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 f	ollowing courses: (8 Units)	
ENGL 68	Preparation for College Writing	4.0
MATH 51	Elementary Algebra	4.0
	Total Units	22.0

ARCH 10 Decign L. Flaments of Decign

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

ARCH 10 Design I - Elements of Design 3. ARCH 11 Architectural Drawing 3. ARCH 12 Architectural Materials 4. and Specifications 4. ENGL 68 Preparation for College Writing 4. MATH 51 Elementary Algebra 4. PLUS (18 Units) ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 24 World Architecture I 3. ARCH 35 Architectural Working Drawings I 3.
ARCH 12 Architectural Materials and Specifications ARCH 16 Basic CAD and Computer Application 4. ENGL 68 Preparation for College Writing 4. PLUS (18 Units) ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 24 World Architecture I 3. ARCH 25 World Architecture I 3. ARCH 36 Architectural Working Drawings I 3.
and Specifications ARCH 16 Basic CAD and Computer Application 4. ENGL 68 Preparation for College Writing 4. MATH 51 Elementary Algebra 4. PLUS (18 Units) ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
ARCH 16 Basic CAD and Computer Application 4. ENGL 68 Preparation for College Writing 4. MATH 51 Elementary Algebra 4. PLUS (18 Units) ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 35 Architectural Working Drawings I 3.
ENGL 68 Preparation for College Writing 4. MATH 51 Elementary Algebra 4. PLUS (18 Units) ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
MATH 51 Elementary Algebra 4. PLUS (18 Units) ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
PLUS (18 Units) ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
ARCH 13 Architectural Illustration 3. ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
ARCH 21 Design II - Architectural Design 3. ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
ARCH 23 Architectural Presentations 3. ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
ARCH 31 World Architecture I 3. ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
ARCH 32 World Architecture II 3. ARCH 15 Architectural Working Drawings I 3.
ARCH 15 Architectural Working Drawings I 3.
<u>or</u>
ARCH 18 Architectural CAD and BIM 3.
PLUS Select one (1) course from:
ARTD 15A Drawing: Beginning 3.
ARTD 20 Design: Two-Dimensional 3.
ARTS 22 Design: Three-Dimensional 3.
Total Units 43.

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)

	(
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	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	e 1.0
INSP 70	Elements of Construction	3.0
	Total Units	50.0 - 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 I 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 coursework: (18 Units)			
ARCH 14	Building and Zoning Codes	3.0	

	<u>or</u>		
PHYS 1	Physics	4.	
PLUS Select one (1) course from: (4 Units)			
INSP 70	Elements of Construction	3.	
EDT 20	Technical Descriptive Geometry	3.	
ARCH 26	Architectural CAD Working Drawings	3.	
ARCH 18	Architectural CAD and BIM	3.	
AKCH 13	Architectural working brawings i	٥.١	

4.0

44.0

ADCU 15 Architectural Working Drawings I

PHYS 2AG General Physics

Total Units

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

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
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
	Total Units 51.0 - 5	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.

Required Courses:

3.0

AIRC 20	Refrigeration Fundamentals	4.0
AIRC 25	Electrical Fundamentals	5.0
	for Air Conditioning and Refrigeration	1
AIRC 31	Commercial Electrical	4.0
	for Air Conditioning and Refrigeration	1
AIRC 34	Advanced Mechanical Refrigeration	4.0
AIRC 61	Building Automation Fundamentals	2.5
AIRC 65	Building Automation Networks	3.0
	and Programming	
AIRC 67	Energy Management	4.0
ELEC 11	Technical Applications	3.0
	in Microcomputers	
CISW 41	XML Secure Programming	3.0
CNET 56	Computer Networks	4.0
	Total Units	36.5

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 Las follows: (9 Units)

Level I as	ionows. (2 onics)	
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 Ur	nits)
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	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 Level III courses as follows: (6.5 Units)			
BUSA 70	Payroll and Tax Accounting	3.0	
CISB 15	Microcomputer Applications	3.5	

Special Information:

Total Units

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

Business: International - Level II 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		
BUSM 66	Small Business Management	3.0	

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 **Total Units** 19.0

Special Information:

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

Business: International - Level III Business Division

Certificate L0528

24.5

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)

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	follows: (6 Units)		
BUSM 61	Business Organization	3.0	
	and Management		
BUSM 66	Small Business Management	3.0	
PLUS Sele	ct 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			
fallanna (O Ilmita)			

follows (Ollnies)

ioliows: (3 ollics)		
BUSL 20	International Business Law	3.0

BUSM 50	World Culture: A Business Perspective	3.0
	<u>or</u>	
ANTH 22	General Cultural Anthropology	3.0
BUSM 52	Principles of Exporting and Importing	3.0
	Total Units 2	28.0
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
Special In	formation:	

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

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 coursework 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	Level II courses as follows: (10	Units)
BUSM 60	Human Relations in Business	3.0
BUSM 62	Human Resource Management	3.0

3.5 CISB 15 Microcomputer Applications **Total Units** 18.5

Special Information:

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

Business: Management - Level III 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

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		
Completio	on of the Business: Management -			
Level II co	ursework as follows: (9.5 Units)			
BUSM 60	Human Relations in Business	3.0		
BUSM 62	Human Resource Management	3.0		
CISB 15	Microcomputer Applications	3.5		
Plus the L	Plus the Level III courses as follows: (11 Units)			
BUSA 7	Principles of Accounting - Financial	5.0		
BUSM 10	Principles of Continuous	3.0		
	Quality Improvement			
BUSM 51	Principles of International Business	3.0		

Special Information:

Total Units

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: (9.5 Units)

BUSO 25	Business Communications	3.0		
BUSS 50	Retail Store Management	3.0		
	and Merchandising			
	<u>or</u>			
FASH 62	Retail Buying	3.0		
	and Merchandising			
CISB 15	Microcomputer Applications	3.5		
Plus the L	evel II courses as follows: (12 U	nits)		
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	21.5		
Special In	Special Information:			

Special Information:

29.5

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: (9.5 Units) RIISO 25 Rucinace Communications

R020 52	Business Communications	3.0		
BUSS 50	Retail Store Management	3.0		
	and Merchandising			
	<u>or</u>			
FASH 62	Retail Buying	3.0		
	and Merchandising			
CISB 15	Microcomputer Applications	3.5		
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 L	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	32.5		

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)

(,		
BUSM 20	Principles of Business	3.0
BUSM 66	Small Business Management	3.0
BUSS 36	Principles of Marketing	3.0
Plus the L	evel II courses as follows: (9 Units	s)
BUSM 60	Human Relations in Business	3.0
BUSM 61	Business Organization	3.0
	and Management	
BUSM 62	Human Resource Management	3.0
	Total Units	18.0

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

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)

a nament I avail II savusavusuksa fallavus			
Completion of Business: Small Business Man-			
BUSS 36	Principles of Marketing	3.0	
BUSM 66	Small Business Management	3.0	
BUSM 20	Principles of Business	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 L	Plus the Level III courses as follows: (11.5 Units)		
BUSA 7	Principles of Accounting - Financial	5.0	
BUSM 10	Principles of Continuous	3.0	
	Quality Improvement		
CISB 15	Microcomputer Applications	3.5	
	Total Units	29.5	

Special Information:

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

Children's Program Certificate: Administration

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

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

CHLD 1	Child, Family, School and Community	3.0
CHLD 5	Principles and Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 10	Child Growth and Lifespan Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Lifespan 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	
	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
CHLD 62	Music and Motor Development for Young Children	3.0
	Music and Motor Development for Young Children Creative Sciencing and Math	3.0
CHLD 62	Music and Motor Development for Young Children Creative Sciencing and Math for Young Children	3.0
CHLD 62 CHLD 63 CHLD 73	Music and Motor Development for Young Children Creative Sciencing and Math for Young Children Infant/Toddler Care and Development	3.0
CHLD 62 CHLD 63 CHLD 73	Music and Motor Development for Young Children Creative Sciencing and Math for Young Children Infant/Toddler Care and Development tional required courses: (11 units)	3.0
CHLD 62 CHLD 63 CHLD 73 PLUS Addi CHLD 50	Music and Motor Development for Young Children Creative Sciencing and Math for Young Children Infant/Toddler Care and Development tional required courses: (11 units) Teaching in a Diverse Society	3.0 3.0 3.0
CHLD 62 CHLD 63 CHLD 73 PLUS Addi	Music and Motor Development for Young Children Creative Sciencing and Math for Young Children Infant/Toddler Care and Development tional required courses: (11 units)	3.0 3.0 3.0
CHLD 62 CHLD 63 CHLD 73 PLUS Addi CHLD 50 CHLD 71A	Music and Motor Development for Young Children Creative Sciencing and Math for Young Children Infant/Toddler Care and Development tional required courses: (11 units) Teaching in a Diverse Society Administration of Child Development Programs	3.0 3.0 3.0
CHLD 62 CHLD 63 CHLD 73 PLUS Addi CHLD 50	Music and Motor Development for Young Children Creative Sciencing and Math for Young Children Infant/Toddler Care and Development tional required courses: (11 units) Teaching in a Diverse Society Administration of Child Development	3.0 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.*

BUSM 66	Small Business Management	3.0
CHLD 72	Teacher, Parent,	3.0
	and Child Relationships	
CHLD 73	Infant/Toddler Care and Developmer	nt 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

The Children's Program Certificate: General Level II enhances the student's knowledge beyond Level I, providing additional skills and knowledge working with children. This certificate focuses on safe and healthy environments, working appropriately with children with special needs and the use of appropriate discipline techniques. Completion may lead to salary increase based on units earned.

Required Courses:

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

-ciiciai		
CHLD 1	Child, Family, School and Community	3.0
CHLD 5	Principles and Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 11	Child and Adolescent Development	3.0
Plus the	Level II courses as follows: (7 Units)
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	
	Total Units	19.0

Children's Program Certificate: General - Level III

Business Division Certificate L1327

The Children's Program Certificate: General Level III increases skills in planning for children by focusing on different areas of curriculum. With 175 days of experience and the completion of 16 specific G.E. units in Areas A, B, C and D, this certificate meets the Title 5 education requirements for a fully qualified teacher.

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 and Practices in Child	3.0
	Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 11	Child and Adolescent Development	3.0
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	
DILLIC C - I -	-4 4l (3) I I III	

PLUS Select three (3) Level III courses from: (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 Developmer	nt 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:

quii.cu	courses.	
CHLD 1	Child, Family, School and Community	3.0
CHLD 5	Principles and Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 10	Child Growth and Lifespan Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Lifespan 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 fo	ollowing 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 Education	2.0
	Practicum	
CHLD 67L	Early Childhood Education	1.0
	Practicum Laboratory	
CHLD 69	Early Childhood Development	2.0
	Field Work Seminar	
CHLD 75	Supervising Adults in Early	2.0
	Childhood Settings	

CHLD 91	Early Childhood Development Field Work	1.0			
PLUS Selec	PLUS Select two (2) courses from: (6 Units)				
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			
	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.

Required Courses:

nequirea	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>	

CISB 15	Microcomputer Application:	s 3.5
ELEC 50A	Electronic Circuits - Direct Co	urrent (DC) 4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 56	Digital Electronics	4.0
	Total Units	29.0 - 29.5

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 Il 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: (29.0-29.5 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		
	<u>or</u>		
CISB 15	Microcomputer Applications	3.5	
ELEC 50A	Electronic Circuits - Direct Current (DC)	4.0	
ELEC 50B	Electronic Circuits (AC)	4.0	

ELEC 56	Digital Electronics	4.0		
Plus the	Level II courses as follows: (12 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			
TECH 60	Customer Relations for the Technician			
Total Units 41.0 - 41.5				
Recommended Electives				
ELEC 51	Semiconductor Devices and Circuits	4.0		
ELEC 74	Microcontroller Systems	4.0		

Computer Graphics - Multimedia Specialist

Cabling and Wiring Standards

4.0

Arts Division Certificate L0323

EST 54

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.

Required Courses:

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

· · · · · · · · · · · · · · · ·	Total Units 20.0		3D Graphics Imagery Multimedia Graphics Digital Productions Computer Graphics Special Topics	3.0 3.0 3.0 2.0 20.0
	on of orginal reductions	GRAP 20	Multimedia Graphics	3.0
GRAP 20 Multimedia Graphics 3.	GRAP 40 Computer Graphics Special Topics 2.0	GRAP 30	Digital Productions	3.0
on 20 martine and order		GRAP 40	Computer Graphics Special Topics	2.0

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 L0322

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:

quii cu	40413431	
GRAP 8	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:

	ELEC 11	Technical Applications	3.0
		in Microcomputers	
	ELEC 12	Computer Simulation	2.0
		and Troubleshooting	
	ELEC 50A	Electronic Circuits - Direct Current (DC	2) 4.0
	ELEC 50B	Electronic Circuits (AC)	4.0
	ELEC 51	Semiconductor Devices and Circuits	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 2.0
		Total Units	30.0
ı			

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:

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

Required	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 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 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	ology
1/11/15 = 4		

	iotai oiiits	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	

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:

Kequirea (Lourses:	
ELEC 11	Technical Applications	3.0
	in Microcomputers	
	<u>or</u>	
CISB 15	Microcomputer Applications	3.5
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: (10 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	2.0
PLUS Selec	ct 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 27.0 - 2	9.5
Recomme	nded Electives:	
ELEC 61	Electronic Assembly and Fabrication	3.0

Advanced Surface Mount Assembly

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 experiences.

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

Required Courses:

nequired	courses.	
ELEC 11	Technical Applications	3.0
	in Microcomputers	
ELEC 12	Computer Simulation	2.0
	and Troubleshooting	
ELEC 50A	Electronic Circuits - Direct Current (DC	4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Semiconductor Devices and Circuits	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	2.0
	Total Units	15.0
Recomme	nded Electives:	
CISP 11	Programming in Visual Basic	3.0
EDT 11	Technical Engineering Drawing I	3.0
ELEC 62	Advanced Surface Mount Assembly	2.0
	and Rework	
ELEC 76	FCC General Radiotelephone Operator	2.0
	License Preparation	
PHYS 2AG	General Physics	4.0

Electronics Communications

Technology and Health Division Certificate T0904

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

This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a 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:

ELEC 11 Technical Applications 3.0 in Microcomputers

ELEC 12	Computer Simulation and Troubleshooting	2.0
ELEC 50A	Electronic Circuits - Direct Current (DC	2) 4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Semiconductor Devices and Circuits	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 2.0
	Total Units	34.0

Electronics Technology

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.

Required Courses:

qucu	eou.ses.	
ELEC 11	Technical Applications	3.0
	in Microcomputers	
ELEC 12	Computer Simulation	2.0
	and Troubleshooting	
ELEC 50A	Electronic Circuits - Direct Current (DO	C) 4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Semiconductor Devices and Circuits	4.0
ELEC 56	Digital Electronics	4.0
ELEC 61	Electronic Assembly and Fabrication	3.0
TECH 60	Customer Relations for the Technician	n 2.0
	Total Units	26.0

ELEC 62

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:

ELEC 11	Technical Applications	3.0
	in Microcomputers	
ELEC 12	Computer Simulation	2.0
	and Troubleshooting	
ELEC 50A	Electronic Circuits - Direct Current (De	C) 4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 51	Semiconductor Devices and Circuits	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 2.0
	Total Units	33.0

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.

Anatomy and Physiology

Required Courses:

EMS 10

	for Paramedics	
EMS 20	Emergency Cardiac Care	1.5
	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	38.0
	i o tui o iii to	30.0
Recomme	nded Electives:	30.0
Recomme ADJU 1		
	nded Electives:	
ADJU 1	nded Electives: The Administration of Justice System	3.0
ADJU 1 FIRE 1	nded Electives: The Administration of Justice System Fire Protection Organization	3.0 3.0
ADJU 1 FIRE 1	nded Electives: The Administration of Justice System Fire Protection Organization Introduction to Psychology	3.0 3.0
ADJU 1 FIRE 1 PSYC 1A	nded Electives: The Administration of Justice System Fire Protection Organization Introduction to Psychology or	3.0 3.0 3.0
ADJU 1 FIRE 1 PSYC 1A PSYC 1AH	nded Electives: The Administration of Justice System Fire Protection Organization Introduction to Psychology or Introduction to Psychology - Honors	3.0 3.0 3.0 3.0
ADJU 1 FIRE 1 PSYC 1A PSYC 1AH	nded Electives: The Administration of Justice System Fire Protection Organization Introduction to Psychology or Introduction to Psychology - Honors Sociology	3.0 3.0 3.0 3.0

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.
- 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) 274-7500, 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 Assessment of Written English, the Math Placement Test and Degrees of Reading Power 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 for the pre-courses. The placement tests are 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.
- 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 PARA-MEDIC 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
- 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
- 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

FDT 11

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:

ı	LUIII	reclinical Engineering Diawing i	5.0		
	EDT 12	Technical Engineering Drawing II	3.0		
	EDT 14	Mechanical Design	3.0		
		- Geometric Dimensioning and Tolerar	ncing		
	EDT 16	Basic CAD and Computer Applications	4.0		
	EDT 18	Engineering CAD Applications	4.0		
	PLUS Select one (1) course from: (2-4 Units)				
	ELEC 50A	Electronic Circuits - Direct Current (DC) 4.0		
	MFG 11	Manufacturing Processes I	2.0		

19.0 - 21.0

Technical Engineering Drawing L

Special Information:

Total Units

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)

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 Tolerancing EDT 16 Basic CAD and Computer Applications 4.0 EDT 18 Engineering CAD Applications 4.0 ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 Or MAG 11 Manufacturing Processes I 2.0 Plus the following 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 - Direct Current (DC) 4.0 Or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits - Direct Current (DC) 4.0 Total Units 31.0 - 35.0		,	
EDT 14 Mechanical Design 3.0 - Geometric Dimensioning and Tolerancing EDT 16 Basic CAD and Computer Applications 4.0 EDT 18 Engineering CAD Applications 4.0 ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 Plus the following 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 - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	EDT 11	Technical Engineering Drawi	ng l 3.0
- Geometric Dimensioning and Tolerancing EDT 16 Basic CAD and Computer Applications 4.0 EDT 18 Engineering CAD Applications 4.0 ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 Plus the following 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 - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	EDT 12	Technical Engineering Drawi	ng II 3.0
EDT 16 Basic CAD and Computer Applications 4.0 EDT 18 Engineering CAD Applications 4.0 ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 Plus the following 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 - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	EDT 14	Mechanical Design	3.0
EDT 18 Engineering CAD Applications 4.0 ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 Plus the following 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 - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0		- Geometric Dimensioning ar	nd Tolerancing
ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 Plus the following 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 - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	EDT 16	Basic CAD and Computer App	olications 4.0
MFG 11 Manufacturing Processes I 2.0 Plus the following 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 - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	EDT 18	Engineering CAD Application	s 4.0
MFG 11 Manufacturing Processes 2.0 Plus the following courses: (12-14 Units) EDT 20 Technical Descriptive Geometry 3.0 EDT 24 Engineering CAD 3-D Solids and Surfaces ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes 2.0 ELEC 50B Electronic Circuits (AC) 4.0	ELEC 50A	Electronic Circuits - Direct Cu	rrent (DC) 4.0
Plus the following 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 - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0		<u>or</u>	
EDT 20 Technical Descriptive Geometry 3.0 EDT 24 Engineering CAD 3-D Solids 3.0 and Surfaces ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	MFG 11	Manufacturing Processes I	2.0
EDT 24 Engineering CAD 3-D Solids 3.0 and Surfaces ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	Plus the f	ollowing courses: (12-14 U	nits)
and Surfaces ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	EDT 20	Technical Descriptive Geome	try 3.0
ELEC 50A Electronic Circuits - Direct Current (DC) 4.0 or MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	EDT 24	Engineering CAD 3-D Solids	3.0
MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0		and Surfaces	
MFG 11 Manufacturing Processes I 2.0 ELEC 50B Electronic Circuits (AC) 4.0	ELEC 50A	Electronic Circuits - Direct Cu	rrent (DC) 4.0
ELEC 50B Electronic Circuits (AC) 4.0		<u>or</u>	
	MFG 11	Manufacturing Processes I	2.0
Total Units 31.0 - 35.0	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 I	J 3.0
EDT 14	Mechanical Design	3.0
	- Geometric Dimensioning and To	olerancing
EDT 16	Basic CAD and Computer Applica	itions 4.0
EDT 18	Engineering CAD Applications	4.0
ELEC 50A	Electronic Circuits - Direct Curren	t (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 - Direct Curren	t (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	0.6 DAO
EDT 28	Engineering CAD 3-D	3.0
	Illustration/Animation	
	Total Units 37	7.0 - 41.0

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

Required Courses:

3.0

FASH 8	Introduction to Fashion	3.0
FASH 10	Clothing Construction I	3.0
FASH 15	Aesthetic Design in Fashion	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

Recommended Electives:			
FASH 24	Fashion Patternmaking by Computer	3.0	
FASH 35	Special Topics in Fashion Design	2.0	
FASH 81	Work Experience in Fashion	1.0	
	Merchandising and Retail		
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	Aesthetic Design in Fashion	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 Le	evel II coursework as follows: (21 U	nits)
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 Electives:			
FASH 35	Special Topics in Fashion Design	2.0	
FASH 81	Work Experience in Fashion	1.0	
	Merchandising and Retail		
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	Aesthetic Design in Fashion	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	Total Units nded Electives:	18.0
	Recomme FASH 81		18.0 1.0
		nded Electives:	
		nded Electives: Work Experience in Fashion	
	FASH 81	nded Electives: Work Experience in Fashion Merchandising and Retail	1.0
	FASH 81 FASH 90	nded Electives: Work Experience in Fashion Merchandising and Retail 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)

FASH 8	Introduction to Fashion	3.0

FASH 10	Clothing Construction I	3.0
FASH 15	Aesthetic Design in Fashion	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 Buying	3.0
	and Merchandising	
	or	
BUSS 50	Retail Store Management	3.0
	and Merchandising	
FASH 63	Fashion Retailing 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
Recomm	ended Electives:	
FASH 81	Work Experience in Fashion	1.0
	Merchandising and Retail	
FASH 90	Field Studies	1.0
FASH 91	Field Studies - New York	2.0
17131171	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:

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

PLUS Sele	ct two (2) courses from: (5.5	5-19 U	nits)
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		2.5
	for the Basic Fire Academy		
	Total Units	23.5 -	37.0
Recomme	nded Electives:		
KINF 50	Physical Skills Preparation for		2.0
	Administration of Justice and Fi	re Tech	nology
KINF 51	Agility Testing Preparation for	ſ	1.0
	Administration of Justice and Fi	re Tech	nology
KINF 52	Fitness and Conditioning for		1.0
	Administration of Justice, Fire and Forestry	Techn	ology

Graphic Design - Level II Arts Division Certificate T0321

This multi-level certificate program is designed to prepare students for careers in the Graphic Design field of Communication Art. Students are given a balanced blend of creative, design, and technology skills necessary to develop successful graphic design for print, web, and other media channels. This Graphic Design Level II certificate offers additional expertise necessary for employment opportunities in the field of Graphic Design. The production software reflects industry standards and course content is driven by industry needs.

Required Courses:

Completion of the Graphic Design Level I coursework (15 units):

ARTC 100	Graphic Design I	3.0
ARTC 120	Graphic Design II	3.0
ARTC 140	Graphic Design III	3.0
ARTC 200	Web Design	3.0
ARTC 220	Graphic Design IV	3.0

PLUS the	following courses: (16 units)	
ARTC 160	Typography	3.
ARTC 240	Multimedia Design	3.
ARTC 280	Commercial Art Studio	4.
	- Special Projects	
ARTC 290	Portfolio	3.
ARTD 20	Design: Two-Dimensional	3.
Required	Electives:	
Select one	e (1) course from the following: (3 units
ANIM 104	Drawing Fundamentals	3.
ANIM 130	Introduction to 3-D Computer	3.
	Animation	
ANIM 172	Motion Graphics, Compositing	3.
	and Visual Effects	
ARTD 21	Design: Color and Composition	3.
	Total Units	34.
Recomme	nded Elective:	
ARTC 299	Graphic Design Internship	1.

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:

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 Manage	ment 4.0
	<u>or</u>	
AGLI 18	Horse Ranch Management	4.0
AGLI 19	Horse Hoof Care	2.0
AGLI 96	Animal Sanitation and Disease	Control 3.0
AGLI 97	Artificial Insemination	2.0
	Total Units 1	18.0 - 21.0

Hospitality: Hospitality Management - Level II

Business Division Certificate L1325

The Hospitality Management - Level II Certificate prepares students for mid-level or Manager-In-Training positions in the hospitality industry. Students gain practical and management training in: dining room service management, supervision, financial accounting, lodging management, and hospitality law. Students who successfully complete the requirements for this certificate will also be required to complete a minimum of 60 non-paid or 75 paid hours of work experience in the hospitality industry.

Required Courses:

HRM 51	Introduction to Hospitality	3.0
HRM 53	Dining Room Service Management	3.0
HRM 56	Hospitality Supervision	3.0
HRM 64	Hospitality Financial Accounting	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

Industrial Design Engineering -Level I

Technology and Health Division Certificate L0327

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.

Required Courses:

IDE 110	Design Foundation-Visual Literacy	3.0
IDE 120	Introduction 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
	Total Units	18.0

Recommended Electives:

ELEC 50A	Electronic Circuits - Direct Current (DC) 4.0
ELEC 81	Laboratory Studies in Electronics	1.0
	Technology	
MATH 51	Elementary Algebra	4.0
PHYS 1	Physics	4.0
WELD 30	Metal Sculpture	2.0
WELD 40	Introduction to Welding	2.0

Industrial Design Engineering - Level II

Technology and Health Division Certificate LO329

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.

Required Courses:

IDE 110	Design Foundation-Visual Literacy	3.0	
IDE 120	Introduction 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	Introduction to Mechanical Principles	3.0	
	Total Units 2	27.0	
Recommended Electives:			
FLEC FOA	El C D C . (DC)		

ELEC 50A	Electronic Circuits - Direct Current (DC) 4.0
ELEC 81	Laboratory Studies in Electronics	1.0
	Technology	
MATH 51	Elementary Algebra	4.0
PHYS 1	Physics	4.0
WELD 30	Metal Sculpture	2.0
WELD 40	Introduction to Welding	2.0
	_	

Industrial Design Engineering

- Level III

Technology and Health Division Certificate T0328

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, 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.

Required Courses:

	Total Units	36.0
	and Materials	
IDE 270	Manufacturing Processes	3.0
IDE 250	Product Design and Viability	6.0
IDE 230	Introduction to Mechanical Principles	3.0
IDE 220	Advanced CAD	3.0
IDE 210	Advanced Media	3.0
IDE 170	Introduction to Prototyping	3.0
IDE 160	Intermediate CAD	3.0
IDE 150	Design Foundations	3.0
IDE 130	Shop Processes	3.0
IDE 120	Introduction to CAD	3.0
IDE 110	Design Foundation-Visual Literacy	3.0

Recommended Electives:

ELEC 50A	Electronic Circuits - Direct Current (DC) 4.0
ELEC 81	Laboratory Studies in Electronics	1.0
	Technology	
MATH 51	Elementary Algebra	4.0
PHYS 1	Physics	4.0
WELD 30	Metal Sculpture	2.0
WELD 40	Introduction to Welding	2.0

Infant/Toddler Development Business Division Certificate T1318

The Infant/Toddler Certificate provides specialized skills and knowledge for working with infants and toddlers. This certificate exceeds Title 22 requirements for a fully qualified teacher of infants/toddlers by including the specified 3 units related to infant care. With 350 days of experience, the completion of 16 specified G.E. units in Areas A, B, C, and D and 2 adult supervision units; this certificate meets Title 5 education requirements for the Master Teacher Level Permit. This permit authorizes the holder to provide service in the care, development and instruction of children and serve as a coordinator of curriculum and staff development.

Required Courses:

nequireu	courses.	
CHLD 1	Child, Family, School and Community	3.0
CHLD 5	Principles and Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 11	Child and Adolescent Development	3.0
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	
CHLD 64	Health, Safety and Nutrition	3.0
	of Young Children	
CHLD 72	Teacher, Parent,	3.0
	and Child Relationships	
	Total Units	30.0

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)

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)

coursewo	rk as tollows: (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 completion of the required Interior Design:		
Level III c	oursework as follows: (17 Units)	
ID 31	Building Systems for Interior Design	3.0

Lighting Design and Theory

for Interior Design

ID 32

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	Required courses for Kitchen and Bath Special-			
ization: (8	Units)			
ID 40	Kitchen and Bath Studio I	3.0		
ID 41				
ודטו	Kitchen and Bath Studio II	3.0		
ID 48	Kitchen and Bath Studio II Internship in Kitchen and Bath	3.0 1.0		
	THE COLUMN DATE OF THE COLUMN DECEMBER OF THE			
	Internship in Kitchen and Bath			
ID 48	Internship in Kitchen and Bath (1 - 3 unit course, 2 units required)	1.0		

Independent Studies in Interior Design 1.0

Interior Design: Level II

Business Division Certificate T0304

ID 52

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:

3.0

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

coursework as follows: (9 Units)			
	ID 10	Introduction to Interior Design	3.
	ID 12	Materials and Products	3.
		for Interior Design	
	ID 14	History of Furniture	3.
		and Decorative Arts	

)	Require	ed 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
)	Recom	mended 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

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)

	tourserrork as ronouss (5 chits)		
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	

Programs of Study Leading to a Certificate

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 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	1.0
	(1 - 3 unit course, 2 units required)	
ID 39	Interior Design Studio II	3.0
	Total Units	50.0
Recomme	nded Electives:	
ID 50	Interior Design Specialized Studio	3.0
ID 52	Independent Studies in Interior Designation	gn1.0

Interior Landscaping

Natural Sciences Division Certificate L0106

This certificate program is designed to give students basic skills in the design, installation, and maintenance of interior plants that are used in residences, offices, hotels, malls, restaurants, and other locations. All courses are applicable for degree requirements.

Populard 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	3.0
	and Installation	
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:

nequireu	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 40	Sports Turf 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 Fundamenta	als 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.

Required Courses:

AGOR 1	Horticultural Science	3.0
AGOR 13	Landscape Design	3.0
AGOR 14	Advanced Landscape Design	3.0
AGOR 29	Ornamental Plants - Herbaceous	3.0
AGOR 30	Ornamental Plants	3.0
	- Trees and Woody Shrubs	
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 Fundamentals	3.0
	AGOR 72	Landscape Hardscape Applications	3.0
	AGOR 73	Landscaping Laws, Contracting,	3.0
		and Estimating	
		Total Units	33.0
ı			

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:

nequireu	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 Funda	mentals 3.0
AGOR 72	Landscape Hardscape Applicat	ions 3.0
AGOR 91	Work Experience	1.0 - 4.0
	in Nursery Operations	
	Total Units	31.0 - 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.

Kequirea	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	
DILLICCALA	at farm (4) correspondences (12 Unite)	

PLUS Select four (4) courses from: (12 Units)

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

Recommended Electives: KINF 50 Physical Skills Pr

KINF 50 Physical Skills Preparation for 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 Technology, and Forestry

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
	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.

Required Courses:

Kequirea	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	3.5
	Total Units	21.5

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	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 5	52.0
Special Int	formation:	

Special Information:

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

Entrance Requirements:

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

a) Be a high school graduate or equivalent. (All students who have taken coursework outside of the

United States must have their transcript evaluated. Foreign transcripts will not be accepted without the evaluation.)

b) Be 18 years of age.

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

d) Submit an application for the Mental Health/ Psychiatric Technician Program to the Technology and Health Division Office (909) 274-7500. 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) 274-7500, 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.

Programs of Study Leading to a Certificate

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

FXAMPLE:

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.

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:

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

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:

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

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:

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	trol 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 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 - Level I

Arts Division Certificate L0348

This multi-level certificate program is designed to prepare students for employment in the field of photography. The Photography Level I certificate offers the core skills necessary for employment as an entry-level Photography Assistant.

Required Courses:

nequired	courses.	
PHOT 10	Basic Digital and Film Photography	3.0
PHOT 11	Intermediate Photography	4.0
PHOT 14	Commercial Lighting	3.0
PHOT 20	Color Photography	3.0
PHOT 16	Fashion Photography	3.0
	<u>or</u>	
PHOT 18	Portraiture and Wedding Photograp	hy 3.0
ARTC 100	Graphic Design I	3.0
	<u>or</u>	
GRAP 10	Photoshop Imagery	3.0
	Totals Units	19.0

Photography - Level II

Arts Division Certificate T0349

This multi-level certificate program is designed to prepare students for employment in the field of photography. This Photography Level II certificate offers additional expertise for students to develop specific skills needed for employment in photography, art, cinema/animation, communications, industrial arts, graphics, and journalism.

Required Courses:

Completion of the Photography Level I coursework: (19 units)

WOIK: (19	uiits)	
PHOT 10	Basic Digital and Film Photography	3.0
PHOT 11	Intermediate Photography	4.0
PHOT 14	Commercial Lighting	3.0
PHOT 20	Color Photography	3.0
PHOT 16	Fashion Photography	3.0
	<u>or</u>	
PHOT 18	Portraiture and Wedding Photography	3.0
ARTC 100	Graphic Design I	3.0
	<u>or</u>	
GRAP 10	Photoshop Imagery	3.0
PLUS the f	following courses: (13 units)	
PHOT 1	Laboratory Studies: Black	1.0
	and White Photography	
PHOT 29	Studio Business Practices	3.0
	for Commercial Artists	
PHOT 17	Photocommunication	3.0
	<u>or</u>	
PHOT 12	Photographic Alternatives	3.0
PHOT 28	Photography Portfolio Development	3.0
	<u>or</u>	
ARTC 290	Portfolio	3.0
GRAP 12	Photoshop Imagery Extended	3.0
	<u>or</u>	
GRAP 9	Digital Color Management	3.0
	Totals Units 3	2.0
Recomme	nded Electives:	
AHIS 1	Understanding the Visual Arts	3.0
	<u>or</u>	
ARTB 1	Understanding the Visual Arts	3.0

PHOT 15 History of Photography

Photography Digital Technician Arts Division

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:

Certificate L0351

GRAP 9	Digital Color Management	3.0
ARTC 100	Graphic Design I	3.0
	<u>or</u>	
GRAP 10	Photoshop Imagery	3.0
GRAP 12	Photoshop Imagery Extended	3.0
	<u>or</u>	
ARTC 220	Graphic Design IV	3.0
PHOT 10	Basic Digital and Film Photography	3.0
PHOT 11	Intermediate Photography	4.0
PHOT 14	Commercial Lighting	3.0
PHOT 20	Color Photography	3.0
	Total Units	22.0
Recomme	nded Electives:	
CISB 16	Macintosh Applications	2.0
PHOT 1	Laboratory Studies: Black	1.0
	and White Photography	
PHOT 29	Studio Business Practices	3.0
	for Commercial Artists	

Programming In C++

Business Division Certificate L0794

3.0

The Programming in C++ Certificate prepares students for a career in computer programming. The certificate offers a balanced set of classes that provides students the skills to create business-oriented applications in C++, maintain a Microsoft Access database, and learn the tools and techniques required of a systems analyst. Emphasis is placed on objectoriented programming techniques; creating database tables, forms, reports and queries; and implementing a computer system using the system development life cycle methodology. Students will demonstrate the ability to create business applications; write effective

program documentation; demonstrate program troubleshooting skills; and build a computer system using the steps of the system development life cycle. Career opportunities after the completion of this certificate include programmer and systems analyst. Required Courses:

nequireu	courses.	
CISB 11	Computer Information Systems	3.5
CISD 11	Database Management	3.0
	- Microsoft Access	
CISD 11L	Database Management	0.5
	- Microsoft Access Lab	
CISM 11	Systems Analysis and Design	3.5
CISN 21	Windows Operating System	3.0
CISP 31	Programming in C++	3.0
CISP 31L	Programming in C++ Laboratory	0.5
CISP 34	Advanced C++ Programming	3.0
CISP 34L	Advanced C++ Programming	0.5
	Laboratory	
	Total Units	20.5

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

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:

R-TV 01	Introduction to Electronic Media	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 Law and 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 Work Experience	
DITIC	•	

Select six (6) units from:

	Total Units	27.0 - 28.0)
	and Procedures		
R-TV 33	Radio Show Producer Techniq	ues 3.0	J
R-TV 32	Radio - TV Internet Applicatio	ns 3.0	J
R-TV 31	History of Radio DJs	3.0	J
R-TV 12	Commercial Copywriting	3.0	J
Delect 31V	(o) units mon.		

Radio Broadcasting: On-the-Air - Level III

Arts Division Certificate L0350

The Level III Radio Broadcasting On-air Certificate provides additional expertise in a selected variety of on-air specialties. Students gain practical hands-on experience in the industry through an off-campus internship at a station, studio or other broadcasting facility.

Required Courses:

Completion of the following Level II coursework: (22.5 units)

WOIN. (22.	J ullits)	
R-TV 01	Introduction to Electronic Media	3.0
R-TV 02	On-Air Personality Development	3.0
R-TV 05	Radio-TV Newswriting	3.0
R-TV 07A	Beginning Commercial Voice-Overs	3.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 15	Broadcast Law and Business Practices	3.0
R-TV 95	Campus Radio Station Operations	1.5
R-TV 96	Campus Radio Station Lab	1.0
R-TV 97A	Radio/Entertainment Industry	1.0
	Seminar	
R-TV 97B	Radio/Entertainment Industry	1.0
	Work Experience	

Required Electives

Plus a minimum of six (6) units from the following courses:

5		
R-TV 03	Sportscasting and Reporting	1.5
R-TV 04	Broadcast News Field Reporting	3.0
R-TV 06	Broadcast Traffic Reporting	1.5
R-TV 09	Broadcast Sales and Promotion	3.0
R-TV 10	Radio Programming and Producer	3.0
	Techniques	
R-TV 11B	Advanced Radio Production	3.0
R-TV 17	Internet Radio and Podcasting	3.0
R-TV 31	History of Radio DJs	3.0
R-TV 33	Radio Show Producer Techniques	3.0
	and Procedures	
R-TV 34	On-Camera Performance	1.5
R-TV 35	Pop Culture in the Media	3.0
R-TV 101	Work Experience in Broadcast	1.0
	Entertainment	
	Total Units	28.5

Real Estate Broker Certificate Business Division Certificate L0532

Prior to taking the California Real Estate Broker's License Exam, the applicant must have completed five (5) required courses: Legal Aspects of Real Estate (BUSR 51), Real Estate Practice (BUSR 52), Real Estate Finance (BUSR 53), Real Estate Appraisal (BUSR 81) and either Real Estate Economics (BUSR 55) or Fundamentals of Accounting (BUSA 11). In addition, the applicant must take three (3) additional courses approved by the California Department of Real Estate: Real Estate Principles (BUSR 50), Income Tax Aspects of Real Estate (BUSR 57), Real Estate Property Management (BUSR 59), Real Estate Investment Planning (BUSR 60), Mortgage Loan Brokering and Lending (BUSR 62), Escrow Procedures I (BUSR 76), Business Law (BUSL 18), Landlord/Tenant Law (PLGL 40), Real Estate Economics (BUSR 55) if not taken in the mandatory category above or Fundamentals of Accounting (BUSA 11) not taken in the mandatory category above for a total of eight (8) courses. The Real Estate Broker Certificate contains all eight courses necessary to satisfy the educational requirements to take the California Real Estate Broker Examination.

Required Courses:

DUCD C1 Lawel Assessed of Deal Catata

BUSR 51	Legal Aspects of Real Estate	3.0
BUSR 52	Real Estate Practice	3.0
BUSR 53	Real Estate Finance	3.0
BUSR 55	Real Estate Economics	3.0
	<u>or</u>	
BUSR 81	Appraisal: Principles and Procedures	3.5
	<u>or</u>	
BUSA 11	Fundamentals of Accounting	3.0
PLUS select three (3) courses from the following		
(9 units)		•
(9 units) BUSL 18	Business Law	3.0
,	Business Law or	3.0
,		3.0
BUSL 18	<u>or</u>	
BUSL 18 BUSL 18H	<u>or</u> Business Law - Honors	3.0
BUSL 18 BUSL 18H BUSR 50	or Business Law - Honors Real Estate Principles	3.0
BUSL 18 BUSL 18H BUSR 50	or Business Law - Honors Real Estate Principles Income Tax Aspects of Real Estate	3.0

	BUSR 60	Real Estate Investment Planni	ing	3.0
	BUSR 62	Mortgage Loan Brokering and	Lending	3.0
	BUSR 76	Escrow Procedures I		3.0
	PLGL 40	Landlord-Tenant Law		3.0
	AND any o	f the following courses if N	OT take	n
	above			
	BUSA 11	Fundamentals of Accounting		3.0
	BUSR 55	Real Estate Economics		3.0
		Total Units	21.0 - 2	1.5
ı				

School Age Child - Specialization

Business Division Certificate T1314

The School Age Child-Specialization Certificate provides specialized skills and knowledge for working with school age children. This certificate exceeds the Title 22 requirements for a fully qualified teacher in school age programs. This skill set also prepares the student for positions as elementary tutors or classroom aides in public school districts.

Child Family School and Community 3.0

Required Courses:

<u>or</u>

CHLD I	Child, Family, School and Community	3.0
CHLD 5	Principles and Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 10	Child Growth and Lifespan Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Lifespan Development - Honors	
	<u>or</u>	
CHLD 11	Child and Adolescent Development	3.0
CHLD 50	Teaching in a Diverse Society	3.0
CHLD 51	Early Literacy in Child Development	3.0
CHLD 62	Music and Motor Development	3.0
	for Young Children	
CHLD 64	Health, Safety and Nutrition	3.0
	of Children	
CHLD 74	Program Planning	3.0
	for the School Age Child	
Required I	Electives:	
PLUS Selec	ct one (1) course:	
LERN 49	Math Skills Review	3.0

MATH 50	Pre-Algebra	3.0		
PLUS Select one (1) course:				
ENGL 64	Writing Effective Sentences	1.0		
ENGL 65	Grammar Review	1.0		
LIT 40	Children's Literature	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

Required Courses:

SIGN 105	American Sign Language 5	4.0
SIGN 108	Fingerspelling	2.0
SIGN 201	Introduction to Deaf Studies	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	
SIGN 227	Cognitive Processing for Interpreters	4.0
SIGN 231	Interpreting	4.0
SIGN 232	Advanced Interpreting	4.0
SIGN 239	Applied Interpreting	2.0
Required	Electives	
Select thi	ree (3) courses from: (4-5 units)	
SIGN 240	Vocabulary Building for Interpreters	2.0
SIGN 250	Interpreting with Classifiers	1.5
SIGN 260	Video Interpreting	1.5
SL 2	Linked Service Learning	1.0
	Total Units 41.0 -	42.0

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..

Required Courses:

nequireu	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 Crew

Arts Division Certificate L0354

The Certificate of Achievement in Television Crew will provide students with experience in a variety of production roles and technologies. This course of study is designed to prepare students for entry level jobs in a variety of areas.

Required Courses:

R-TV 19A	Beginning Video Production	3.0
Select 15	units from the following courses:	:
R-TV 19B	Advanced Video Production	3.0
R-TV 20	Television News Production	3.0
R-TV 21	Remote Multicamera Production	3.0
R-TV 22	Editing for Film and Television	3.0
R-TV 23	Reality Show Production	3.0
R-TV 100	Work Experience in Film and TV	1.0
	Total Units	18.0

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:

nequirea	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

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	3.
AINIIVI 1/2		٥.
	and Visual Effects	
ARTC 100	Graphic Design I	3.
ARTC 120	Graphic Design II	3.
ARTC 160	Typography	3.
ARTC 200	Web Design	3.
ARTC 220	Graphic Design IV	3.
ARTC 240	Multimedia Design	3.
ARTD 20	Design: Two-Dimensional	3.
	Total Units	24.

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:

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
WELD 91	Automotive Welding, Cutting	1.0
	and Modification	
	Total Units	28.0
Note: Any higher level welding courses may be substi-		
tuted for W	ELD 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	3.0		
WELD 81	Pipe and Tube Welding	3.0		
WELD 90A	Gas Tungsten Arc Welding	3.0		
	Total Units	30.0		
Notes Any h	Note: Any higher level wolding 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:

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	27.0
Note: Any h	igher level welding courses may be su	ıbsti-

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 Weldin	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 h	iahar laval walding courses may be si	ıhcti_

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

SKILLS CERTIFICATES

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 - Financial	5.0
	<u>or</u>	
BUSA 72	Bookkeeping - Accounting	5.0
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

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 - Financial	5.0
	<u>or</u>	
BUSA 72	Bookkeeping - Accounting	5.0
BUSA 81	Work Experience in Accounting	1.0
BUSO 5	Business English	3.0
	<u>or</u>	
BUSO 25	Business Communications	3.0

Plus the following 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 Accounting	1.0
BUSA 76	Using Microcomputers	1.0
	in Managerial Accounting	
	<u>or</u>	
BUSA 81	Work Experience in Accounting	1.0
	Total Units	14.0
1		

Administrative Assistant - Level I Business Division

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

Required Courses:

Certificate E0516

nequireu	nequired courses.			
BUSO 5	Business English	3.0		
CISB 15	Microcomputer Applications	3.5		
CISI 11	Computer Keyboarding	3.0		
CISI 41	Office Management Skills	3.0		
	Total Units	12.5		

Animation - Game & Interactive Multimedia Design I

Arts Division Certificate E0339

This multi-level certificate program offers skills needed for creative careers that integrate animation with gaming, video, audio, graphics, and special effects for the Web, broadcast, film, presentation, or mobile content. The Animation - Game & Interactive Multimedia Level I Certificate offers an early exit point of 12 units and provides the skills necessary for entry-level employment as a junior web animator or animation designer, 2D Game Design Assistant, or junior game designer.

Required Courses:

nequirea	courses.	
ARTC 100	Graphic Design I	3.0
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
	Total Units	12.0
Recomme	ended Elective:	
ANIM 137A	Work Experience in New Digital I	Media 1.0

Animation - Tradigital Level I

Arts Division

Certificate E0337

This multi-level certificate program provides skills based on the principles of storytelling and animation using both traditional and digital media. These skills lead to employment opportunities as animators, character designers, and storyboard artists for television, film, Web, mobile media, and gaming. The Animation - Tradigital Level I Certificate offers an early exit point of 15 units and provides the skills necessary for entry-level employment in the areas of production assistant or junior storyboard artist.

Required Courses:

I	ANIM 101A	Drawing - Gesture and Figure	3.0
	ANIM 108	Principles of Animation	3.0
	ANIM 111A	Animal Drawing	1.5
	ANIM 115	Storyboarding	3.0
	ANIM 116	Character Development	1.5
	ANIM 104	Drawing Fundamentals	3.0
		<u>or</u>	
	ARTD 15A	Drawing: Beginning	3.0
		Total Units	15.0

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:

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

Special Information:

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

Business: Management - Level I Business Division Certificate E0525

The Business Management - Level I Certificate is designed to introduce the student to the role of management in business. Management is the efficient use of human and capital resources to accomplish organizational objectives. Students will be exposed to the terms, trends, organizational structure, and opportunities inherent in business management. Upon completion of the Business: Management - Level I Certificate students may qualify for an entry-level management position in California's diverse economy.

Required Courses:

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

Special Information:

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

Business: 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.

Required Courses:

BUSO 25	Business Communications	3.0
CISB 15	Microcomputer Applications	3.5
FASH 62	Retail Buying	3.0
	and Merchandising	
	<u>or</u>	
BUSS 50	Retail Store Management	3.0
	and Merchandising	
	Total Units	9.5

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:

	DU33 30	Principles of Marketing Total Units	
ı	BUSM 66 BUSS 36	Small Business Management	
ı			
ı	BUSM 20	Principles of Business	

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 the foundations of child development and who has an interest in teaching young children. This certificate meets the Title 22 education requirements for a fully qualified teacher. In Title 5 programs, this certificate meets the educational requirements for an Assistant/Aide position. This certificate includes the identified core courses for the Associate Teacher Child Development Permit. Fifty (50) days of experience is required to complete the permit requirements.

Doguinad Courses

Kequirea	courses:	
CHLD 1	Child, Family, School and Community	y 3.0
CHLD 5	Principles and Practices	3.0
	in Child Development Programs	
CHLD 6	Survey of Child Development	3.0
	Curriculum	
CHLD 11	Child and Adolescent Development	3.0
	Total Units	12.0

CIS Professional Certificate in C++ Programming

Business Division Certificate E0714

The CIS Professional Certificate in C++ Programming prepares students for a career in computer programming. It is intended for returning CIS professionals with several years of experience or current students who have completed several CIS courses. Emphasis is placed on object-oriented programming, database programming and developing a graphical user interface. Students will demonstrate the ability to create businessoriented applications using both the C++ and Visual C++ programming languages; demonstrate effective object-oriented design techniques; write effective program documentation, and demonstrate program troubleshooting skills. Opportunities available after the completion of this certificate include programming for standalone applications, games and databases.

Required Courses:			
CISP 10	Principles of Object-Oriented Design	2.0	
CISP 31	Programming in C++	3.0	
CISP 31L	Programming in C++ Laboratory	0.5	
CISP 34	Advanced C++ Programming	3.0	
CISP 34L	Advanced C++ Programming Laboratory	0.5	
PLUS			
CISD 11	Database Management - Microsoft Access	3.0	
CISD 11L	Database Management - Microsoft Access	0.5	
	Lab		
	<u>or</u>		
CISD 21	Database Management	3.0	
	- Microsoft SQL Server		
CISD 21L	Database Management	0.5	
	- Microsoft SQL Server Laboratory		
	<u>or</u>		
CISD 31	Database Management - Oracle	3.0	
CISD 31L	Database Management	0.5	
	- Oracle Laboratory		
	Total Units 1	2.5	

CIS Professional Certificate in Excel and Access

Business Division Certificate E0715

This certificate in Excel and Access is designed to prepare students for working with Microsoft Excel and Access in a business environment. The certificate offers a balanced set of classes that prepares students for using advanced features of both Excel and Access needed by industry. Emphasis is placed on Excel functions as well as Access' relational database techniques. Within Excel, students create a variety of workbooks, utilizing charts, PivotTables, various functions, macros, lists and tables. With Access, students create a variety of objects, including tables, queries, forms, reports and macros, as well as VBA programming. In the VBA for Excel and Access, VBA is used in both Excel and Access to program advanced functionality that may be needed within these applications. Much attention is paid to design principles, including normalization, securing databases, and other current topics in the database field. Students will demonstrate understanding of the topics via projects using various real-world workbooks and databases. Opportunities available after the completion of this certificate include, but are not limited to, administrative aides, database administrators, designers and developers, and database systems analysts. In addition, courses help prepare students to take the Microsoft MOS certification exam in Excel and Access.

Required Courses:

neganea	courses.	
CISB 21	Microsoft Excel	3.0
CISD 11	Database Management	3.0
	- Microsoft Access	
CISD 11L	Database Management	0.5
	- Microsoft Access Lab	
CISD 14	VBA for Excel and Access	3.0
CISD 14L	VBA for Excel and Access Lab	0.5
CISD 40	Database Design	3.0
	Total Units	13.0

CIS Professional Certificate in Java Programming

Business Division Certificate E0700

The Java programming certificate is designed to prepare students for a career in computer programming. The certificate offers a balanced set of classes that provides students with client, server, and database programming skills required by industry. Emphasis is placed on object-oriented programming applications Web-based applets configuring an Apache Tomcat servlet, implementing JavaServer Pages, JavaBeans, and NetBeans for reusable software components. Student will demonstrate the ability to design and implement a Java application that will contain the front end user interface and back end database. Opportunities available after the completion of this certificate include programming for systems, mobile devices, device drivers and software engineering.

Required Courses:

CISP 10	Principles of Object-Oriented Design	2.0
CISP 21	Programming in Java	3.0
CISP 21L	Programming in Java Laboratory	0.5
CISP 24	Advanced Java Programming	3.0
CISP 24L	Advanced Java Laboratory	0.5
CISD 11	Database Management	3.0
	- Microsoft Access	
CISD 11L	Database Management	0.5
	- Microsoft Access Lab	
	<u>or</u>	
CISD 21	Database Management	3.0
	- Microsoft SQL Server	
CISD 21L	Database Management	0.5
	- Microsoft SQL Server Laboratory	
	<u>or</u>	
CISD 31	Database Management - Oracle	3.0
CISD 31L	Database Management	0.5
	- Oracle Laboratory	
	Total Units	12.5

CIS Professional Certificate in LINUX Business Division

Certificate E0796

The CIS Certificate in Linux prepares student to install, manage, program and troubleshoot Linux operating systems. The certificate offers a balanced set of classes that prepares students to create and operate Linux workstations, servers and networks used by industry. Emphasis is placed on configuring a Linux distribution to create workstations with client applications; email, file, FTP, DNS and other servers; and routers, firewalls and other network services. Special attention is given to security concepts and tools and their implementation in a Linux system. Students will also learn to configure and install an Apache web server in a Linux system to access a MySQL database using PHP programs. Opportunities available after the completion of this certificate include system or network administration, web server, and database programmers. The certificate covers the major topics of an industry standard certification exam for Linux.

Required Courses:

CISTOSTE	Total Units	10
CISW 31L	Secure Web Servers Laboratory	0
CISW 31	Secure Web Servers	3
	Laboratory	
CISN 34L	Linux Networking and Security	0
CISN 34	Linux Networking and Security	3
CISN 31L	Linux Operating System Laboratory	0
CISN 31	Linux Operating System	3
ı		

CIS Professional Certificate in Network Security

Business Division Certificate E0721

The CIS Professional Certificate in Network Security program is designed to prepare students for a career in the computer network security industry. The certificate offers a balanced set of classes that prepare students to design, implement, manage and secure the heterogeneous corporate network. The security management courses emphasize firewall security appliances, network protocol analysis, Linux network, Snort intrusion detection, intrusion prevention, and vulnerability manage-

ment. Students will acquire the skills to utilize network protocol analyzers, to troubleshoot network problems, deploy intrusion prevention systems, configure firewall security appliances and Virtual Private Network (VPN), and assess network vulnerabilities and implement countermeasures. Individual courses will help students prepare for industry certification exams such as Certify Ethical Hacker (CEH), Cisco Firewall Specialist, and Cisco IPS Specialist. Opportunities available upon completion of the certificate program include Network Security Analyst, Junior Network Security Engineer, Network Vulnerability Management, and Network Security Architect.

Required Courses:

nequired courses.		
CISS 21	Network Vulnerabilities	3.0
	and Countermeasures	
CISS 21L	Network Vulnerabilities	0.5
	and Countermeasures Lab	
CISS 23	Network Analysis,	3.0
	Intrusion Detection/Prevention Syst	ems
CISS 23L	Network Analysis, Intrusion	0.5
	Detection/Prevention Systems Lab	
CISS 25	Network Security and Firewalls	3.0
CISS 25L	Network Security and Firewalls Lab	0.5
CISS 27	Defending Computer Systems	1.0
	Total Units	11.5

CIS Professional Certificate in Networking

Business Division Certificate E0716

The CIS Professional Certificate in Networking program is designed to prepare students for a career in the computer networking industry. The certificate offers a balanced set of classes that prepare students to design, implement, and manage the heterogeneous corporate network. The network administration courses emphasize network operating systems, network infrastructure and data communications. Student will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, group policy, file system security, DNS, DHCP, Linux Networking, Cisco routers, switches, network infrastructure, access control list, Virtual LAN (VLAN) and VLAN routing. Individual courses will help students

prepare for related industry certification exams such as Network+, Microsoft MCITP, Cisco CCNA and Red Hat RHCSA. Opportunities available upon completion of this certificate include entry-level and mid-management positions in Network Administration.

Required Courses

nequireu	courses.	
CISN 11	Telecommunications/Networking	3.0
CISN 11L	Telecommunications/Networking La	b 0.5
CISN 24	Window Server Network	3.0
	and Security Administration	
CISN 24L	Window Server Network	0.5
	and Security Administration Lab	
CISN 34	Linux Networking and Security	3.0
CISN 34L	Linux Networking and Security	0.5
	Laboratory	
CISN 51	Cisco CCNA Networking and Routing	3.0
CISN 51L	Cisco CCNA Networking and Routing	0.5
	Laboratory	
	Total Units	14.0

CIS Professional Certificate in Object-Oriented Design & Programming

Business Division Certificate E0723

The CIS Professional Certificate in Object-Oriented Design and Programming prepares students for a career in computer programming. The certificate offers a balanced set of classes that provides students the skills to design and develop business applications using the Unified Modeling Language (UML) and an object-oriented programming language. Students will demonstrate the ability to design and implement business environment applications that will contain the front end user interface and back end database. Students in this program select one of the following three programming language concentrations: Visual Basic.NET, Java or C++. Career opportunities available after the completion of this certificate include programming for systems, mobile devices, device drivers and software engineering.

Required Courses (2 units):

Principles of Object-Oriented Design 2.0

Plus one of the following three programming tracks (7 units):

Visual Basic.NET:

visuai Das	IC.NLI.	
CISP 11	Programming in Visual Basic	3.0
CISP 11L	Programming in Visual Basic	0.5
	Laboratory	
CISP 14	Advanced Visual Basic .NET	3.0
CISP 14L	Advanced Visual Basic.NET Laboratory	0.5
Java:		
CISP 21	Programming in Java	3.0
CISP 21L	Programming in Java Laboratory	0.5
CISP 24	Advanced Java Programming	3.0
CISP 24L	Advanced Java Laboratory	0.5
C ++:		
CISP 31	Programming in C++	3.0
CISP 31L	Programming in C++ Laboratory	0.5
CISP 34	Advanced C++ Programming	3.0
CISP 34L	Advanced C++ Programming	0.5
	Laboratory	
	Total Units	9.0

CIS Professional Certificate in SOL

Business Division Certificate E0730

The SQL Server certificate is designed to prepare students for a career in database administration using SQL Server. The certificate offers a balanced set of classes that provides students skills in database design, data retrieval and database programming. Emphasis is placed on building databases; retrieving data; creating and maintaining database objects; writing stored procedures, functions and triggers for reusable software components. Students will demonstrate the ability to view and update databases and develop programs to automate database functions. Opportunities available after the completion of this certificate include SQL Server report writer, SQL Server developer and software engineer.

Required Courses:

CISD 21	Database Management	3.0
	- Microsoft SQL Server	
CISD 21L	Database Management	0.5
	- Microsoft SQL Server Laboratory	
CISD 31	Database Management - Oracle	3.0

CISD 31L	Database Management	0.5
	- Oracle Laboratory	
CISD 40	Database Design	3.0
	Total Units	10.0

CIS Professional Certificate in Telecommunications

Business Division Certificate E0718

The CIS Professional Certificate in Telecommunications program is designed to prepare students for a career in the computer networking industry. The certificate offers a balanced set of classes that prepare students to design, implement and manage the heterogeneous corporate network. The network administration courses emphasize network operating systems, network infrastructure and data communications. Students will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, group policy, file system security, DNS, DHCP, Cisco routers, switches, network infrastructure, access control list, Virtual LAN (VLAN) and VLAN routing. Individual courses will assist students in preparing for industry certification exams such as Network+, Microsoft MCITP and Cisco CCNA. Opportunities available upon completion of the certificate program include entry-level and midmanagement positions in Network Administration.

Required Courses:

	CISN 11	Telecommunications/Networking	3.0
	CISN 11L	Telecommunications/Networking Lab	0.5
	CISN 24	Window Server Network	3.0
		and Security Administration	
	CISN 24L	Window Server Network	0.5
		and Security Administration Lab	
	CISN 51	Cisco CCNA Networking and Routing	3.0
	CISN 51L	Cisco CCNA Networking and Routing	0.5
		Laboratory	
		Total Units	10.5
ı			

CIS Professional Certificate in Visual Basic Programming

Business Division Certificate E0719

The CIS Professional Certificate in Visual Basic Programming is designed to prepare students for a career in computer programming. The certificate offers a balanced set of classes that provides students client. server and database programming skills required by industry. Emphasis is placed on object-oriented programming applications, web based applications and implementing ASP.NET, ADO.NET and .NET Framework for reusable software components. Students will demonstrate the ability to design and implement a Visual Basic application that contains the client interface, the server implementation and the database. Opportunities available after the completion of this certificate include programming for systems, mobile applications, integration of systems and web applications.

Required	Required Courses:			
CISP 10	Principles of Object-Oriented Design	2.0		
CISP 11	Programming in Visual Basic	3.0		
CISP 11L	Programming in Visual Basic	0.5		
	Laboratory			
CISP 14	Advanced Visual Basic .NET	3.0		
CISP 14L	Advanced Visual Basic.NET Laboratory	0.5		
CISD 11	Database Management	3.0		
	- Microsoft Access			
CISD 11L	Database Management	0.5		
	- Microsoft Access Lab			
	<u>or</u>			
CISD 21	Database Management	3.0		
	- Microsoft SQL Server			
CISD 21L	Database Management	0.5		
	- Microsoft SQL Server Laboratory			
	<u>or</u>			
CISD 31	Database Management - Oracle	3.0		
CISD 31L	Database Management - Oracle	0.5		
	Laboratory			
	Total Units 1	2.5		

CIS Professional Certificate in Web Programming

Business Division Certificate E0713

The CIS Certificate in Web Programming provides students the programming skills to create effective web pages and web sites. The certificate offers a balanced set of classes that prepares students to design, debug and implement both client-side and server-side web programs. Emphasis is placed on acquiring programming skills in various web programming, scripting or markup languages such as JavaScript, HTML, DHTML, XHTML, XML, CSS, ASP, JSP, SQL and Perl. Students will also learn to configure and install an Apache web server in a Linux system to access a MySQL database using PHP programs. Opportunities available after the completion of this certificate include web programming or web and database server administration.

Required Courses:

CISW 24	Secure Server Side Web Programming	3.0
CISW 24L	Secure Server Side Web Programming	0.5
	Lab	
CISW 31	Secure Web Servers	3.0
CISW 31L	Secure Web Servers Laboratory	0.5
	Total Units	7.0

CIS Professional Certificate in Windows Operating System Administration

Business Division Certificate E0720

The CIS Professional Certificate in Windows Operating System Administration is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This certificate will prepare students for technical support jobs for companies using Windows operating systems. The certificate will provide students the skills to install, manage/administer and troubleshoot Microsoft Windows workstations and Microsoft server operating systems. The courses in this certificate cover the major topics of industry standard certification exams. Opportunities available upon completion of the

certificate program include entry-level and mid-level help desk and Windows Administrative positions.

Required Courses:

CICN 24	W: 1 0 .: C .	2.0
CISN 21	Windows Operating System	3.0
CISN 24	Window Server Network	3.0
	and Security Administration	
CISN 24L	Window Server Network	0.5
	and Security Administration Lab	
	Total Units	6.5

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:

qucu	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

Business Division Certificate E1334

The program prepares students for entry level career opportunities in restaurants, catering, hotels, theme parks and other food service businesses. Students gain practical training in the use of commercial equipment and acquire the skills necessary to be successful in the field of culinary arts such as: knife skills, food production, presentation, menu development, portion control, and nutrition. Students who successfully complete the requirements for this certificate will also earn the Food Protection Manager Certification from the National Restaurant Association upon passing the ServSafe Exam.

Required Courses:

HRM 52	Food Safety and Sanitation	1.5
HRM 54	Basic Cooking Techniques	3.0
HRM 81	Garde Manger	3.0
HRM 82	Baking and Pastry	3.0
HRM 83	International Cuisines	3.0
Plus one	(1) of the following: (3 units)	
NF 10	Nutrition for Personal Health	3.0
	and Wellness	
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
	Total Units	16.5

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:

DNCE 2B	Ballet II
DNCE 4	Choreography

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

Electronic Assembly and Fabrication

Technology and Health Division Certificate E0929

The Electronic Assembly and Fabrication Certificate is intended to prepare students to enter the electronics field as assembly and fabrication technicians. The program provides a series of courses to meet the needs of industry in assembly, soldering/de-soldering skills and fabrication for both through-hole and surface mount devices (SMD). Included are skills for various types of cabling and connections.

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

Required Courses:

0.5

nequireu	Courses.	
ELEC 50A	Electronic Circuits - Direct Current (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	nded Elective:	
ELEC 63	Electronic Assemblies Recertification	1.0

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 iob 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 Volt age 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:

	Total Units	15.0 - 15.5
EST 54	Cabling and Wiring Standards	4.0
	for Cable Installations	
EST 52	Fabrication Techniques	4.0
	for Cable Installations	
EST 50	Electrical Fundamentals	4.0
CISB 15	Microcomputer Applications	3.5
	<u>or</u>	
	in Microcomputers	
ELEC 11	Technical Applications	3.0

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.
- 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:

qucu	40415451	
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
	Total Units	12.0

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:

nequireu (Lourses:		
NF 10	Nutrition for Personal Health	3.0	
	and Wellness		
KIN 15	Administration of Fitness Programs	2.0	
KIN 24	Applied 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	3.0	
	Cardiovascular Exercise		
KIN 41	Techniques of Teaching Weight Trainin	g 2.0	
KIN 85	Fitness Specialist Work Experience	1.0	
	Total Units	18.0	
Recommended Electives:			

:1 0	Alignment and Correctives I	DNCF 394
) I	Alignment and Correctives i	I DINCE 39A

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:

nequirea	tourses.	
ARTG 20	Art, Artists and Society	3.0
ARTG 21A	Introduction to Exhibition Production	1 3.0
ARTG 21B	Intermediate Exhibition Production	3.0
The following	ng course to be taken twice - once as an	1
off-campus	experience and once as an on-campus	
experience ((2 Units)	
ARTG 22A	Exhibition Design and Art Gallery	1.0
	Operation Work Experience	
ARTC 100	Graphic Design I	3.0
PLUS selec	ct 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

Graphic Design Level I

Arts Division Certificate E0341

This multi-level certificate program is designed to prepare students for careers in the Graphic Design field of Communication Art. Students are given creative design and technology skills necessary to develop successful graphic design for print, web, and other media. This Graphic Design Level I certificate offers the essential skills required for entry-level employment opportunities as a production or layout artist, interface or content designer, publication artist, print advertising artist, or desktop publisher. The production software reflects industry standards and course content is 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

	Total Units	15.0
ARTC 220	Graphic Design IV	3.0
ARTC 200	Web Design	3.0

Hospitality: Catering

Business Division Certificate E0344

The Catering Certificate prepares students for entry-level positions in catering companies, banquets facilities, hotels, convention centers, fair grounds and event planning companies. Students gain practical and management training in: food safety and sanitation, food production, menu development, developing catering business plans, client meeting techniques, contract creation and banquet event order development. Students who successfully complete the requirements for this certificate will also earn the Food Protection Manager Certification from the National Restaurant Association upon passing the ServSafe Exam.

Required Courses:

TIMINIOZ	Total Units	10.5
HRM 62	Catering	3.0
HRM 61	Menu Planning	3.0
HRM 54	Basic Cooking Techniques	3.0
HRM 52	Food Safety and Sanitation	1.5

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 students for entry-level positions in the hospitality industry. Students receive training in dining room service management and lodging operations. Students who successfully complete the requirements for this certificate will also be required to complete a minimum of 60 non-paid or 75 paid hours of work experience in the hospitality industry.

Required Courses:

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

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

Hospitality: Restaurant Management - Level II

Business Division Certificate E0343

The Restaurant Management - Level II Certificate prepares students for mid-level or Manager-In-Training positions in restaurants, catering, hotel food and beverage outlets, theme parks and other food service businesses. Students gain practical and management

training in: food safety and sanitation, food production, dining room service management, menu development and cost volume analysis. Students who successfully complete the requirements for this certificate will also earn the Food Protection Manager Certification from the National Restaurant Association upon passing the ServSafe Exam.

Required Courses:

qucu	to all sess	
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 57	Hospitality Cost Control	3.0
HRM 61	Menu Planning	3.0
HRM 91	Hospitality Work Experience	1.0
	Total Units	17.5

Information and Operating Systems Security

Business Division Certificate E0731

The Information and Operating Systems Security certificate provides students the skills to analyze security risks to a computer network and select and deploy countermeasures to reduce the network's exposure to such risks. The certificate offers a balanced set of classes that provides students the skills to identify network threats and protect the system against them. Students will demonstrate the ability to create a secure computer system and utilize security tools to protect it from security threats. Although this certificate, by itself, may not qualify a student for a career in network security, it would ideally compliment other network security certificates and/or degrees within the CIS program.

Required Courses:

nequirea	courses.	
CISS 11	Practical Computer Security	2.0
CISS 13	Principles of Information Systems	4.0
	Security	
CISS 15	Operating Systems Security	3.0
	Total Units	9.0

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:

and Decorative Arts	
History of Furniture	3.0
for Interior Design	
Materials and Products	3.0
Introduction to Interior Design	3.0
	Materials and Products for Interior Design History of Furniture

Introduction to Computer Information Technology

Business Division Certificate E0712

The Introduction to Computer Information Technology certificate is designed to prepare students for careers that require the understanding and use of computer technology. The certificate offers a balanced set of classes that enables students to become proficient with business software such as Word, Excel and Access; implement security techniques to protect computer systems from malware; maintain a computer using utility programs, and create web sites. Emphasis is placed on developing formatted documents; using spreadsheets to enter, calculate and graph data; using a database to store and retrieve data and to create forms, reports and queries; protecting a computer's hardware and software, and using HTML and web page editors to create and publish multimedia web sites. Students will demonstrate the ability to use software to solve business problems and create commercial web sites. Although the completion of this certificate may not qualify a student for a job in the computer industry, it would complement a degree such as business or engineering that requires computer skills.

Required Courses:

	Total Units	7.0
CISB 15	Microcomputer Applications	3.5
CISB 11	Computer Information Systems	3.5

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.
- A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for Math 51
- High school graduation or GED or academic degree from an accredited college/university in the United States.
- Possess a California Licensed Vocational Nurse license.

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

NURS 5	Psychiatric Nursing	3.0
NURS 8	Medical-Surgical Nursing: Circulation	1 5.5
	and Oxygenation	
NURS 9	Leadership in Nursing	1.0
NURS 10	Medical-Surgical Nursing:	4.5
	Integration/Regulation	
NURS 11	Preceptorship in Nursing	2.0
	Total Units	16.0

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

Selection Process:

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:**
- 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
1		

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:

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

Microcomputer Productivity Software

Business Division Certificate E0336

The Microcomputer Productivity Software certificate is designed to prepare students for careers that require extensive knowledge of business-related productivity software. The certificate offers a balanced set of classes that enables students to maintain and troubleshoot a Windows operating system, learn advanced features of Excel, Access and PowerPoint software; and create commercial Web sites. Emphasis is placed on customizing,

optimizing and securing a Windows-based computer; developing spreadsheet pivot tables and macros; using Access to create and maintain database tables, forms, reports and queries; creating and manipulating Power-Point slide shows with multimedia content; and using HTML and web page editors to create and publish Web sites. Students will demonstrate the ability to use software to store and retrieve data, solve business problems and create commercial Web sites. Opportunities available after the completion of this certificate include systems analyst, administrative assistant and office manager.

Required Courses:

	Total Units	17.0
CISN 21	Windows Operating Software	4.0
	- Microsoft Access Lab	
CISD 11L	Database Management	0.5
	- Microsoft Access	
CISD 11	Database Management	3.0
CISB 51	Microsoft PowerPoint	3.0
CISB 21	Microsoft Excel	3.0
CISB 15	Microcomputer Applications	3.5

Nutrition

Business Division Certificate E0353

This certificate is designed to give students basic knowledge and skills in nutrition science, food science, food preparation, and food safety and sanitation.

These core courses provide the necessary skills for those seeking entry-level employment as nutrition assistants or dietary service workers in hospital or school food service or with community agencies such as The Federal Supplemental Nutrition Program for Women, Infants, and Children (W.I.C.) and Head Start. Students desiring a Bachelor of Science Degree in Nutrition (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Required Courses:

qucu	40415451	
HRM 52	Food Safety and Sanitation	1.5
NF 20	Principles of Foods	3.0
NF 25	Essentials of Nutrition	3.0
NF 25H	<u>or</u> Essentials of Nutrition - Honors Total Units	3.0 7.5

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:

kequirea (Lourses:	
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	e 1.5
DN-T 31	Pilates Teaching-Mat and Reformer	3.0
KIN 3	First Aid and CPR	3.0
KIN 24	Applied Kinesiology	2.0
Plus selec	t 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

Programming In Visual Basic Business Division Certificate E0335

The Programming in Visual Basic Certificate is designed to prepare students for a career in computer programming. The certificate offers a balanced set of classes that provides students the client, server and database programming skills required by industry. Emphasis is placed on object-oriented programming applications, web based applications, and implementing ASP.NET, ADO.NET and .NET Framework for reusable software components. Students will demonstrate the ability to design and implement a Visual Basic application that contains the client interface, the server implementation and the database. Opportunities available after the completion of this certificate include programming for systems, mobile applications, integration of systems and web applications.

Required Courses:

nequired.	courses.	
CISB 11	Computer Information Systems	3.5
CISD 11	Database Management	3.0
	- Microsoft Access	
CISD 11L	Database Management	0.5
	- Microsoft Access Lab	
CISM 11	Systems Analysis and Design	3.5
CISP 11	Programming in Visual Basic	3.0
CISP 11L	Programming in Visual Basic	0.5
	Laboratory	
CISP 14	Advanced Visual Basic .NET	3.0
CISP 14L	Advanced Visual Basic.NET Laboratory	0.5
	Total Units 1	17.5

Radio Broadcasting: Behind-the-Scenes - Level I

Arts Division

Certificate E0316

This multi-level certificate program prepares students to enter the field of broadcasting in a behind-the-scenes capacity. The Level I Radio Broadcasting Behind-the—Scenes Certificate provides an overview of the fundamental skills essential to the field as well as the business and legal aspects of the industry.

Required Courses:

R-TV 01	Introduction to Electronic Media	3.0
R-TV 09	Broadcast Sales and Promotion	3.0
R-TV 10	Radio Programming and Producer	3.0
	Techniques	
R-TV 11A	Beginning Radio Production	3.0
R-TV 15	Broadcast Law and Business Practices	3.0
	Total Units	15.0

Radio Broadcasting:

On-Air - Level I

Arts Division Certificate E0317

This multi-level certificate program prepares students to enter the field of on-air radio broadcasting and related areas. The Level I Radio Broadcasting On-Air Certificate provides an overview of fundamental skills essential to the field as well as the business and legal aspects of the industry.

Required Courses:

	Total Units	15.0
R-TV 15	Broadcast Law and Business Practices	3.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 05	Radio-TV Newswriting	3.0
R-TV 02	On-Air Personality Development	3.0
R-TV 01	Introduction to Electronic Media	3.0

Real Estate Sales Certificate

Business Division Certificate E0342

Prior to taking the California Real Estate Salespersons Examination, an applicant must complete three (3) college level courses specified by the California Department of Real Estate. Two of these classes are mandated: Real Estate Principles (BUSR 50) and Real Estate Practice (BUSR 52). The third class may be any real estate or real estate related course specified by The California Department of Real Estate. The Real Estate Sales Certificate includes these three classes for a total of 9 units needed to apply for the California Real Estate Salesperson's Examination.

Required Courses:

BUSR 50 Real Estate Principles 3.0 BUSR 52 Real Estate Practice 3.0 Plus select one (1) course from: (3-5 units) BUSA 7 Principles of Accounting - Financial 5.0 BUSA 11 Fundamentals of Accounting 3.0 BUSC 1A Principles of Economics 3.0 - Macroeconomics BUSL 18 Business Law 3.0 BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0 Total Units 9.0 - 11.0	quii cu i	10415651	
Plus select one (1) course from: (3-5 units) BUSA 7 Principles of Accounting - Financial 5.0 BUSA 11 Fundamentals of Accounting 3.0 BUSC 1A Principles of Economics 3.0 - Macroeconomics BUSL 18 Business Law 3.0 BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 50	Real Estate Principles	3.0
BUSA 7 Principles of Accounting - Financial 5.0 BUSA 11 Fundamentals of Accounting 3.0 BUSC 1A Principles of Economics 3.0 - Macroeconomics BUSL 18 Business Law 3.0 BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 1nvestments 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 52	Real Estate Practice	3.0
BUSA 11 Fundamentals of Accounting 3.0 BUSC 1A Principles of Economics 3.0 - Macroeconomics BUSL 18 Business Law 3.0 BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 10 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	Plus select	t one (1) course from: (3-5 units)	
BUSC 1A Principles of Economics 3.0 - Macroeconomics BUSL 18 Business Law 3.0 BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSA 7	Principles of Accounting - Financial	5.0
- Macroeconomics BUSL 18 Business Law 3.0 BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 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 BUSR 76 Escrow Procedures I 3.0 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSA 11	Fundamentals of Accounting	3.0
BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 1nvestments 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSC 1A	Principles of Economics	3.0
BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 BUSR 57 Income Tax Aspects of Real Estate 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0		- Macroeconomics	
BUSR 53 Real Estate Finance 3.0 BUSR 55 Real Estate Economics 3.0 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSL 18	Business Law	3.0
BUSR 55 Real Estate Economics 3.0 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 51	Legal Aspects of Real Estate	3.0
BUSR 57 Income Tax Aspects of Real Estate 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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 53	Real Estate Finance	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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 55	Real Estate Economics	3.0
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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 57	Income Tax Aspects of Real Estate	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 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0		Investments	
BUSR 62 Mortgage Loan Brokering and Lending 3.0 BUSR 76 Escrow Procedures I 3.0 BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 59	Real Estate Property Management	3.0
BUSR 76Escrow Procedures I3.0BUSR 81Appraisal: Principles and Procedures3.5PLGL 40Landlord-Tenant Law3.0	BUSR 60	Real Estate Investment Planning	3.0
BUSR 81 Appraisal: Principles and Procedures 3.5 PLGL 40 Landlord-Tenant Law 3.0	BUSR 62	Mortgage Loan Brokering and Lending	3.0
PLGL 40 Landlord-Tenant Law 3.0	BUSR 76	Escrow Procedures I	3.0
	BUSR 81	Appraisal: Principles and Procedures	3.5
Total Units 9.0 - 11.0	PLGL 40	Landlord-Tenant Law	3.0
		Total Units 9.0 - 1	1.0

Welding

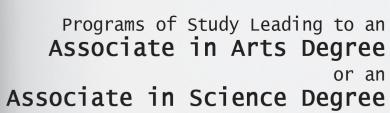
Technology and Health Division Certificate E0919

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.

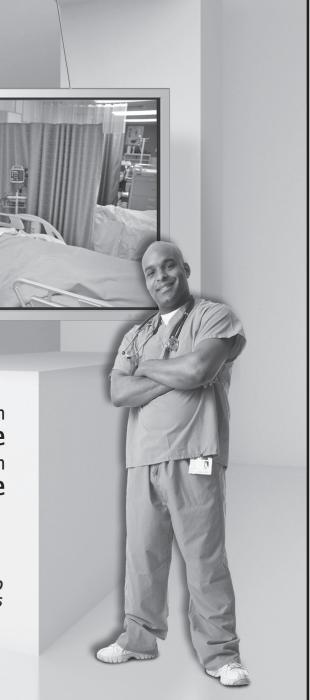
Courses in the welding curriculum prepare students for welding certificates. The College is a testing agency for the City of Los Angeles, and is authorized to administer the performance test for the Structural Welding certificate. There is a \$50 charge for students and \$60 for nonstudents to take this 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	D 70B Intermediate Arc Welding					
	Total Units	8.0				
Recomme	Recommended Electives:					
WELD 60	Print Reading and Computations	3.0				
	for Welders					
WELD 70C	Certification for Welders	3.0				
Note: Any higher level welding courses may be substi-						
tuted for WELD 70A.						

EIGHT



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 postsecondary study should they wish to transfer at a later date. The Associate in Arts for Transfer and Associate in Science 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 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:

1. 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 2013-14

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, KINX with a grade of "C" or better or "CR".

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

READ 90 Preparing for College Reading

AMLA 33R American Language Advanced Reading

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

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

1. Math 71 Intermediate Algebra,

or

Math 71B Intermediate Algebra - Second Half

or

Math 71X Practical Intermediate Algebra

or

- Completing a more advanced college level mathematics course. or
- Obtaining a satisfactory score on the Intermediate Algebra Competency Examination.

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

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

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

Additional Requirements for the Associate 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 68-91 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 91-97 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: www.mtsac.edu/instruction/general/geos mtsac.html

PROGRAM AND COURSE STUDENT LEARNING OUTCOMES (SLOS)

Program and course student learning outcomes are statements that define the knowledge, skills, and perspectives acquired by students who satisfy program and course requirements. It is through the assessment of SLOs that the curriculum will be evaluated for improvements. SLOs will be assessed by faculty who teach courses and oversee programs. The SLOs can be found at http://www.mtsac.edu/instruction/outcomes/sloinfo.html

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

GENERAL EDUCATION REQUIREMENTS FOR 2013-14							
ADEA A.		000 10	Introduction to Ossan a granh.	ALUC 2	History of Moreon and Conday in Aut	SPCH 4	Deufermanne of Literature
AREA A:	cation in the English Language	OCEA 10 OCEA 10H	Introduction to Oceanography Introduction to Oceanography	AHIS 3 AHIS 3H	History of Women and Gender in Art History of Women and Gender in Art	THTR 9	Performance of Literature Introduction to Theatre Arts
(6 units):	tation in the English Language	OCEA ION	- Honors	АПІЗ ЭП	- Honors	THTR 10	History of Theatre Arts
	11 courses from the following	000 101		ALLIC A			
	[1] courses from the following:	OCEA 10L	Introduction to Oceanography	AHIS 4	History of Western Art: Prehistoric	THTR 11	Principles of Acting I
ENGL 1A	Freshman Composition	DUCCO	Laboratory	ALUC ALL	Through Gothic	HUMANITIES	
	Freshman Composition — Honors	PHSC 3	Energy Science	AHIS 4H	History of Western Art: Prehistoric	ARAB 1	Elementary Arabic
	1] courses from the following:	PHSC 7	Physical Science	ALUC E	Through Gothic — Honors	ARAB 2	Continuing Elementary Arabic
SPCH 1A	Public Speaking	PHSC 7L	Physical Science Laboratory	AHIS 5	History of Western Art: Renaissance	CHIN 1	Elementary Chinese
	Public Speaking — Honors	PHYS 1	Physics		Through Modern	CHIN 2	Continuing Elementary Chinese
SPCH 2	Fundamentals of Communication		General Physics	AHIS 5H	History of Western Art: Renaissance	CHIN 3	Intermediate Chinese
SPCH 8	Professional and Organizational	PHYS 2BG	General Physics		Through Modern — Honors	CHIN 4	Continuing Intermediate Chinese
	Speaking	PHYS 4A	Engineering Physics	AHIS 6	History of Modern Art	ENGL 1B	English – Introduction to
SPCH 8H	Professional and Organizational	PHYS 4B	Engineering Physics	AHIS 6H	History of Modern Art — Honors		Literary Types
	Speaking — Honors	PHYS 4C	Engineering Physics	AHIS 8	History of Medieval Art and Architecture	ENGL 1BH	English – Introduction to
AREA B:		LIFE SCIENCE		AHIS 9	History of Asian Art and Architecture		Literary Types — Honors
	cal Universe and Life (3 units):	AGOR 1	Horticultural Science	AHIS 10	A History of Greek and Roman Art	FRCH 1	Elementary French
Select one l	1] course from the Physical Sciences or	ANAT 10A	Introductory Human Anatomy		and Architecture	FRCH 2	Continuing Elementary French
Life Science		ANAT 10B	Introductory Human Physiology	AHIS 11	History of African, Oceanic,	FRCH 3	Intermediate French
PHYSICAL SO		ANAT 35	Human Anatomy		and Native American Art	FRCH 4	Continuing Intermediate French
ASTR 5	Introduction to Astronomy	ANAT 36	Human Physiology	AHIS 12	History of Precolumbian Art	FRCH 5	Advanced French
ASTR 5H	Introduction to Astronomy – Honors	ANTH 1	Biological Anthropology		and Architecture	FRCH 6	Continuing Advanced French
ASTR 5L	Astronomical Observing Laboratory	ANTH 1H	Biological Anthropology — Honors	AHIS 12H	History of Precolumbian Art	FRCH 60	French Culture Through Cinema
ASTR 7	Geology of the Solar System	ANTH 1L	Biological Anthropology Laboratory		and Architecture — Honors	GERM 1	Elementary German
ASTR 8	Introduction to Stars, Galaxies,	BIOL 1	General Biology	AHIS 14	Rome: The Ancient City	GERM 2	Continuing Elementary German
סוונס	and the Universe	BIOL 2	Plant and Animal Biology	AHIS 15	Culture and Art of Pompeii	GERM 3	Intermediate German
CHEM 10	Chemistry for Allied Health Majors	BIOL 3	Ecology and Field Biology	ARCH 31	World Architecture I	*HIST 1	History of the United States
CHEM 20	Introductory Organic	BIOL 4	Biology for Majors	ARCH 32	World Architecture II	*HIST 3	World History: Prehistoric to
CITEIVI 20	and Biochemistry	BIOL 4H	Biology for Majors — Honors	ARTB 14	Basic Studio Arts		Early Modern
CHEM 40	Introduction to General Chemistry	BIOL 6	Humans and the Environment	ARTD 15A	Drawing: Beginning	*HIST 3H	World History: Prehistoric to
CHEM 50	General Chemistry I	BIOL 6L	Humans and the Environment	ARTD 20	Design: Two-Dimensional		Early Modern — Honors
	General Chemistry I — Honors		Laboratory	ARTD 25A	Beginning Painting I	*HIST 4	World History: Early Modern
CHEM 51	General Chemistry II	BIOL 8	Cell and Molecular Biology	ARTG 20	Art, Artists and Society		to the Present
GEOG 1	Elements of Physical Geography	BIOL 17	Neurobiology and Behavior	ARTS 22	Design: Three-Dimensional	*HIST 4H	World History: Early Modern
GEOG 1H	Elements of Physical Geography	BIOL 20	Marine Biology	ARTS 30A	Ceramics: Beginning I		to the Present — Honors
מבטט ווו	- Honors	BIOL 21	Marine Biology Laboratory	ARTS 40A	Sculpture: Beginning	*HIST 7	History of the United States to 1877
CF0C 11		BIOL 34	Fundamentals of Genetics	DN-T 20	History and Appreciation of Dance	*HIST 7H	History of the United States to 1877
GEOG 1L GEOG 1LH	Physical Geography Laboratory Physical Geography Laboratory	BIOL 34L	Fundamentals of Genetics Laboratory	ID 14	History of Furniture		- Honors
GEOG ILI		MICR 1	Principles of Microbiology		and Decorative Arts	*HIST 8	History of the United States from 1865
CEOL 1	- Honors	MICR 22	Microbiology	MUS 7	Fundamentals of Music	*HIST 8H	History of the United States from 1865
GEOL 1	Physical Geology	PSYC 1B	Biological Psychology	MUS 11A	Music Literature Survey		– Honors
GEOL 7	Geology of California	AREA C:	biological i sychology	MUS 11B	Music Literature Survey	*HIST 10	History of Premodern Asia
GEOL 8	Earth Science		lumanities (6 units):	MUS 12	History of Jazz	*HIST 11	History of Modern Asia
GEOL 8H	Earth Science — Honors	Arts and H	iumanities (o units):	MUS 13	Introduction to Music Appreciation	*HIST 19	History of Mexico
GEOL 8L	Earth Science Laboratory	Select two	[2] courses, six [6] units minimum, with	MUS 13H	Introduction to Music Appreciation	*HIST 30	History of the African American
GEOL 9	Environmental Geology		1] course from the Arts and one [1] from	11103 1311	- Honors	ייייי טע ועווי	1619 - 1877
GEOL 10	Natural Disasters	Humanities:		MUS 14A	World Music	*HIST 31	History of the African American
METO 3	Weather and the Atmospheric	ARTS	11 1 2 1 1 1 1 1 1 1 1	MUS 14A	American Folk Music	*HIST 35	History of Africa
	Environment	AHIS 1	Understanding the Visual Arts, <u>or</u>	MUS 146 MUS 15	Rock Music History and Appreciation	*HIST 36	Women in American History
METO 3L	Weather and the Atmospheric	ARTB 1	Understanding the Visual Arts	PHOT 15	History of Photography	*HIST 39	California History
	Environment Laboratory			רו וטחץ	nistory of rhotography	לל ולוח	California History

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 65-66. For further information, please consult with the Counseling Center on the upper level of the Student Sevices Center.

A
Accounting
Administrative Assistant68
Agri-Technology 68
Air Conditioning and Refrigeration
Airframe and Aircraft Powerplant
Maintenance Technology – Day 68
Airframe and Aircraft Powerplant
Maintenance Technology – Evening 69
Alcohol/Drug Counseling69
Animation70
Applied Laboratory Science Technology (ALST) 70
Architectural Technology — Design Concentration 70 Architectural Technology — Technology Concentration . 71
Architectural Technology — Technology Concentration . 71
Aviation Science71
B-C-D
Building Automation71
Business: Management71
Business: Retail Management
Child Development72
Commercial Flight72
Computer – Database Management Systems 72
Computer and Networking Technology
Computer Graphics Digital Technology
Computer Network Administration and
Security Management73
Computer Programming
Construction Inspection74
Correctional Sciences74
E
Educational Paraprofessional74
Electronics and Computer
Engineering Technology
Emergency Medical Services
Equipment Technology76
Equipment rechnology76
F
Fashion Design
Fashion Merchandising
Fire Technology
G-H
General Business77
Graphic Design77
Histologic Technician Training77
2

offination, prease consult with the counseling center	.1
G-H (cont.)	
Horse Ranch Management	78
Hospitality and Restaurant Management	78
Human Résource Management	78
I-J-K	
Industrial Design Engineering	76
Integrated Pest Management	78
Interior Design	79
Interior DesignInterior Design — Kitchen and Bath	79
International Business	79
L	
Law Enforcement	80
Licensed Vocational Nurse to RN	
Livestock Management	81
M-N	
Manufacturing Technology	81
Marketing Management	81
Mental Health Technology — Psychiatric Technician	82
Nursing	83
O-P-Q	
Ornamental Horticulture	84
Paralegal/Legal Assistant	84
Park & Sports Turf Management	84
Pet Science	85
Photography	85
Physical Education	85
Psychiatric Technician to RN	85
R	06
Radio Broadcasting: Behind the Scenes Radio Broadcasting: On the Air	00 07
Radiologic Technology	07
Real Estate	0/ QQ
Registered Veterinary Technology	
Respiratory Therapy	
C.T.	0,
Sign Language/Interpreting	90
Small Business Management	90
Television Production	01
	21
U-V-W Welding — Semiautomatic Arc Welding	01
weiging — Semiautomatic Arc Weiging	91

Arts Division
Animation70
Computer Graphics Digital Photography
Graphic Design
Photography85
Radio Broadcasting: Behind the Scenes
Radio Broadcasting: On the Air 87
Television Production
Business Division
Accounting
Administrative Assistant
Business: Management71
Business: Retail Management
Child Development
Computer – Database Management Systems 72
Computer Network Administration &
Security Management
Computer Programming
Fashion Design
Fashion Merchandising
General Business
Hospitality and Restaurant Management 78
Human Resource Management
Interior Design79
Interior Design — Kitchen and Bath
International Business
Marketing Management81
Paralegal/Legal Assistant
Real Estate
Small Business Management
Humanities & Social Sciences Division
Educational Paraprofessional
Sign Language/Interpreting90
Kinesiology, Athletics & Dance Division Physical Education
Natural Sciences Division
Agri-Technology68
Applied Laboratory Science Technology (ALST) 70
Equipment Technology
Histologic Technician Training 77
Horse Ranch Management
Integrated Pest Management78

LISTING BY INSTRUCTIONAL DIVISIO	N —ASSOCIATE IN SCIENCE DEGREE	
sion	Livestock Management	8
n70	Ornamental Horticulture	
r Graphics Digital Photography 73	Park & Sports Turf Management	84
esign77	Pet Science	8.
phy 85	Registered Veterinary Technology	89
padcasting: Behind the Scenes	Technology & Health Division	
padcasting: On the Air	Air Conditioning and Refrigeration	
Production91	Airframe and Aircraft Powerplant	
s Division	Maintenance Technology — Day	68
ng 68	Airframe and Aircraft Powerplant	
rative Assistant68	Maintenance Technology — Evening	69
Management71	Alcohol/Drug Counseling	6
Retail Management71	Architectural Technology	
elopment72	Design Concentration	70
r – Database Management Systems 72	Architectural Technology	
r Network Administration &	— Technology Concentration	7
ty Management73	Aviation Science	
r Programming73	Building Automation	
9esign76	Commercial Flight	
Merchandising76	Computer and Networking Technology	
Susiness 77	Construction Inspection	
ty and Restaurant Management 78	Correctional Sciences	7
esource Management78	Electronics and Computer Engineering	
esign79	Technology	
esign — Kitchen and Bath 79	Emergency Medical Services	
onal Business79	Engineering Design Technology	
g Management 81	Fire Technology	
/Legal Assistant84	Industrial Design Engineering	
te 88	Law Enforcement	80
siness Management	Licensed Vocational Nurse to RN	
ties & Social Sciences Division	Manufacturing Technology	8
nal Paraprofessional	Mental Health Technology	
guage/Interpreting	— Psychiatric Technology	
	Nursing	
ogy, Athletics & Dance Division	Psychiatric Technician to RN	
ducation 85	Radiologic Technology	
Sciences Division	Respiratory Therapy	
nology68	Welding	9
ahoratory Science Technology (ALST) 70		

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:

nequireu v	LVUI 3C3.	
BUSA 7	Principles of Accounting - Financial	5.0
BUSA 8	Principles of Accounting - Managerial	5.0
BUSA 21	Cost Accounting	4.5
BUSA 52	Intermediate Accounting	3.0
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	3.5
	Total Units	86.0

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:

nequirea .	Loui Je J.	
BUSO 5	Business English	3.0
BUSO 25	Business Communications	3.0
CISB 15	Microcomputer Applications	3.5
CISB 21	Microsoft Excel	3.0
CISB 31	Microsoft Word	3.0
CISB 51	Microsoft PowerPoint	3.0
CISI 11	Computer Keyboarding	3.0
CISI 41	Office Management Skills	3.0
Select one	(1) course from: (2-3.5 Uni	ts)
BUSO 26	Oral Communications for Busi	ness 3.0
CISB 16	Macintosh Applications	2.0
CISB 61	Desktop Publishing Software	3.0
CISW 15	Web Site Development	3.5
	Total Units	26.5 - 28.0

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 Fundamentals	3.0
PLUS sele	ct 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:

	2.0
in Air Conditioning and Refrigeratio	า
AIRC 11 Welding for Air Conditioning	2.0
and Refrigeration	
AIRC 12 Air Conditioning Codes and Standard	ds 3.0
AIRC 20 Refrigeration Fundamentals	4.0
AIRC 25 Electrical Fundamentals	5.0
for Air Conditioning and Refrigeration	n
AIRC 26 Gas Heating Fundamentals	2.0
AIRC 30 Heat Load Calculations & Design	4.0
l	4.0
AIRC 31 Commercial Electrical	4.0
AIRC 31 Commercial Electrical for Air Conditioning and Refrigeration	
for Air Conditioning and Refrigeration	n

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.

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 65A	Aircraft Powerplant	13.0
	Maintenance Technology	
AIRM 65B	Aircraft Powerplant Maintenance	13.0
	Technology: Reciprocating & Turbine	
AIRM 66A	Aircraft Airframe Maintenance	13.0
	Structures	
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	Aircraft Materials and Processes	1.5
AIRM 73	Aircraft 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 stateawarded 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

-	AIRM 72	Aircraft Materials and Processes	1.5
	AIRM 73	Aircraft Welding	1.5
П	AIRM 90A	Airframe Maintenance Technology	3.0
	AIRM 90B	Airframe Maintenance Technology:	3.0
		Structure and Design	
	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: Systems	3.0
	AIRM 93B	Airframe Maintenance Technology:	3.0
		Fire Suppression	
	AIRM 95A	Aircraft Powerplant Maintenance	3.0
		Technology	
	AIRM 95B	Aircraft Powerplant Maintenance	3.0
		Technology: Reciprocating Engines	
	AIRM 96A	Aircraft Powerplant Maintenance	3.0
		Technology: Turbine Engines	
	AIRM 96B	Aircraft Powerplant Maintenance	3.0
•	A1D14.07.4	Technology: Propellers	2.0
	AIRM 97A	Aircraft Powerplant Maintenance	3.0
	AIDM OZD	Technology: Instrumentation	2.0
	AIRM 97B	Aircraft Powerplant Maintenance Technology: Fuel Meter Systems	3.0
	AIRM 98A	Aircraft Powerplant Maintenance	3.0
	AINIVI 90A	Technology: Ignition Systems	5.0
	AIRM 98B	Aircraft Powerplant Maintenance	3.0
	AINIVI JOD	Technology: Lubricating Systems	5.0
		Total Units	63.0
	Recomme	nded Electives:	05.0
	AIRM 74	Aircraft Maintenance Technology	2.0
	71111117 1	- Work Experience	2.0
	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 chemicallydependent 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.

Required Courses:

AD 14

SOC 14

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 field work courses: AD 13 Internship/Seminar

Select two	o (2) courses from:	
CHLD 10	Child Growth and Lifespan Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Lifespan Development - Honors	
PSYC 1A	Introduction to Psychology	3.0
	<u>or</u>	
PSYC 1AH	Introduction to Psychology — Honors	3.0

Advanced Internship/Seminar

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

Marriage and the Family

3.0

4.0

4.0

SOC 15 Child Development 3.0 **Total Units** 41.0

Eligibility Requirements and Selection Procedures Eligibility Requirements:

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

Selection Procedures

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

Special Instructions:

- a) Restricted Electives must be taken prior to enrollment in Field Experience
- b) Restricted Electives can be taken in conjunction with core and skills courses
- 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 S1006

The Animation Program offers an integrated/ interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a balanced blend of art and 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:

quii cu i	ioui sesi			
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 and Lighting	3.0		
ANIM 172	Motion Graphics, Compositing	3.0		
7111111 172	and Visual Effects	3.0		
ANIM 175	Web Animation With Flash	3.0		
ARTD 16	Drawing: Perspective	3.0		
	Total Units	34.5		
Recommended 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 entrylevel 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:				
BUSM 10	Principles of Continuous	3.0		
	Quality Improvement			
CHEM 20	Introductory Organic and Biochemistry	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		
PLUS selec	PLUS select (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 - Honors	3.0		
	Total Units 29.0 - 3	0.0		

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 and Animation	3.0
	ARCH 89	Architectural Work Experience	1.0
	INSP 70	Elements of Construction	3.0
		Total Units 39.0 - 4	
	Recomme	nded Electives:	•
	ARTD 15A	Drawing: Beginning	3.0
	ARTD 20	Design: Two-Dimensional	3.0
1		-	

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			

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 Air Traffic Collegiate Training Initiative (AT-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:

AERO 100	Primary Pilot Ground School	4.0
AERO 102	Aviation Weather	3.0
AERO 104	Federal Aviation Regulations	2.0
AERO 152	Air Transportation	3.0
AERO 200	Aviation Safety and Human Factors	3.0
AERO 250	Navigation	3.0
AERO 252	Instrument Ground School	3.0
AIRT 151	Aircraft Recognition and Performance	3.0
AIRT 201	Terminal Air Traffic Control	3.0
AIRT 203	Enroute Air Traffic Control	3.0
AIRT 251	Air Traffic Control Team Skills	1.5
	Total Units	31.5
Recomme	nded Electives:	
AERO 150	Commercial Pilot Ground School	3.0
AERO 202	Aircraft and Engines	3.0
BUSM 60	Human Relations in Business	3.0

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	ı
AIRC 31	Commercial Electrical	4.0
	for Air Conditioning and Refrigeration	ı
AIRC 34	Advanced Mechanical Refrigeration	4.0
AIRC 61	Building Automation Fundamentals	2.5
AIRC 65	Building Automation Networks	3.0
	and Programming	
AIRC 67	Energy Management	4.0
ELEC 11	Technical Applications	3.0
	in Microcomputers	
CISW 41	XML Secure Programming	3.0
CNET 56	Computer Networks	4.0
	Total Units	36.5

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:

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	3.5
	Total Units	29.5
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.

kequirea courses:			
	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	3.5
	FASH 62	Retail Buying	3.0
		and Merchandising	
		<u>or</u>	
	BUSS 50	Retail Store Management	3.0
		and Merchandising	
		Total Units	32.5

Child Development

Business Division Degree \$1315

This program provides a theoretical framework and practical experience developing skills necessary to work directly in preschool classrooms. Graduates can be employed at the teacher or master teacher level. The program develops students' skills and abilities in observation and assessing, planning and executing activities, and classroom management based on developmentally appropriate practices. Degree requirements exceed the identified eight (8) courses for transfer by requiring additional practical experience and curriculum courses.

Required Courses:

CHLD 62	Music and Motor Development	3.0
	for Young Children	3.0
CHLD 61	Language Arts and Art Media	3.0
CHLD 50	Early Literacy in Child Development	3.0
CHLD 50	Teaching in a Diverse Society	3.0
Recomme	nded Electives:	20.0
	Total Units	28.0
CIILU 9 I	Field Work	1.0
CHLD 91	Early Childhood Development	1.0
CILU 04	in Child Development Settings	1.0
CHLD 84	Guidance and Discipline	1.0
CULD 03	Early Childhood Development Field Work Seminar	2.0
CHLD 68 CHLD 69	Children With Special Needs	3.0
CIII D.CC	Laboratory	2.0
CHLD 67L	Early Childhood Education Practicum	1.0
CHLD 67	Early Childhood Education Practicum	
CIII D 67	Observation and Assessment Labora	,
CHLD 66L	Early Childhood Development	1.0
	Observation and Assessment	
CHLD 66	Early Childhood Development	2.0
	of Children	
CHLD 64	Health, Safety and Nutrition	3.0
CHLD 11	Child and Adolescent Development	3.0
	Curriculum	
CHLD 6	Survey of Child Development	3.0
	in Child Development Programs	
CHLD 5	Principles and Practices	3.0
CHLD 1	Child, Family, School and Community	3.0
nequireu	courses:	

	for Young Children		
CHLD 63	Creative Sciencing and Math	3.0	
	for Young Children		
CHLD 71A	Administration of Child	3.0	
	Development Programs 3		
CHLD 71B	Management/Marketing/Personnel	3.0	
	for ECD Programs		
CHLD 72	Teacher, Parent,	3.0	
	and Child Relationships		
CHLD 73	Infant/Toddler Care and Development	3.0	
Note: These courses are acceptable for the Child Devel-			
opment requirements leading to the Child Development			
Permit.			

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 100	Primary Pilot Ground School	4.0		
AERO 102	Aviation Weather	3.0		
AERO 104	Federal Aviation Regulations	2.0		
AERO 150	Commercial Pilot Ground School	3.0		
AERO 152	Air Transportation	3.0		
AERO 200	Aviation Safety and Human Factors	3.0		
AERO 202	Aircraft and Engines	3.0		
AERO 250	Navigation	3.0		
AERO 252	Instrument Ground School	3.0		
	Total Units	27.0		
Recommended Electives:				

AIRT 151 Aircraft Recognition and Performance 3.0 Note: The Commercial Flight faculty recommend that students complement their studies with selected

elective courses chosen from the list above. Students should meet with a professor of commercial flight to help them determine which electives would best suit their career plans.

Computer - Database Management Systems

Business Division Degree S0706

The A.S. Degree in Database Management Systems is a two-year program designed to prepare students for careers in database management systems. The degree offers a balanced catalog of classes that prepares students to work with both small and enterprise-level computer databases required by industry. Emphasis is placed on current techniques used in relational database management systems, including creating and maintaining table data, setting appropriate relationships between tables, querying needed information, creating additional objects needed for the dissemination of information from the database and setting properties to help ensure the security of data. In addition, VBA (Visual Basic for Applications) programming is covered. The enterprise level also concentrates in SQL development. In addition, the degree covers the theory of database design, including normalization and other current database topics. Student wishing a bachelor's degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses. Opportunities that are available after completion of this degree include, but are not limited to, database administrators, designers and developers, and database systems analysts.

Required Courses:

Kequired Courses:			
CISB 11	Computer Information Systems	3.5	
CISB 15	Microcomputer Applications	3.5	
CISD 40	Database Design	3.0	
CISM 11	Systems Analysis and Design	3.5	
CISN 21	Windows Operating System	3.0	
	<u>or</u>		
CISN 31	Linux Operating System	3.0	
CISN 31L	Linux Operating System Laboratory	0.5	
	<u>and</u>		
BUSM 20	Principles of Business	3.0	

or	
Principles of Accounting - Fina	ancial 5.0
vo (2) lecture-lab combination	ns below:
Database Management	3.0
- Microsoft Access	
Database Management	0.5
- Microsoft Access Lab	
VBA for Excel and Access	3.0
VBA for Excel and Access Lab	0.5
Database Management	3.0
- Microsoft SQL Server	
Database Management	0.5
- Microsoft SQL Server Labora	tory
Database Management - Orac	de 3.0
Database Management	0.5
- Oracle Laboratory	
Total Units	26.5 - 30.0
	Principles of Accounting - Financio (2) lecture-lab combination Database Management - Microsoft Access Database Management - Microsoft Access Lab VBA for Excel and Access VBA for Excel and Access Lab Database Management - Microsoft SQL Server Database Management - Microsoft SQL Server Labora Database Management - Oracle Laboratory

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	PCTroubleshooting	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
CNET 66	Security+ Certification Preparation	2.0
ELEC 11	Technical Applications	3.0
	in Microcomputers	
	<u>or</u>	
CISB 15	Microcomputer Applications	3.5
ELEC 50A	Electronic Circuits - Direct Current (DC	2) 4.0
ELEC 50B	Electronic Circuits (AC)	4.0
ELEC 56	Digital Electronics	4.0
TECH 60	Customer Relations for the Technician	1 2.0
	Total Units 44.0 -	44.5
Recomme	ended Electives:	
ELEC 51	Semiconductor Devices and Circuits	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:

GRAP 8 Fundamentals of Digital Media 3.0

GRAP 9 GRAP 10	Digital Color Management Photoshop Imagery	3.0 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
GRAP 30	Digital Productions	3.0
GRAP 40	Computer Graphics Special Topics	2.0
	Total Units	29.0

Computer Network Administration and Security Management

Business Division Degree S0701

The A.S. Degree in Computer Network Administration and Security Management is designed to prepare students for a career in the computer network and security industries. The degree offers a balanced set of classes that prepare students to design, implement, manage and secure the heterogeneous corporate network. The network administration courses emphasize network operating systems, network infrastructure and data communication. Students will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, group policy, file system security, DNS, DHCP, Cisco routers, switches, network infrastructure, access control list, Virtual LAN (VLAN), and VLAN routing. The security management courses emphasize firewall security appliances, network protocol analysis, Linux network Snort intrusion detection, intrusion prevention and vulnerability management. Students will acquire the skills to utilize network protocol analyzers, to troubleshoot network problems, deploy intrusion prevention systems, configure firewall security appliances and Virtual Private Network (VPN), and assess network vulnerabilities and implement countermeasures. Individual courses will assist students in preparing for industry certification exams such as Network+, Microsoft MCITP, Cisco CCNA, Certify Ethical Hacker (CEH), Cisco Firewall Specialist, and Cisco IPS Specialist. Opportunities available after graduation include entry-level and mid-management positions in Network Administration, Network Security Analyst and Junior Network Security Engineer. Students wishing a bachelor's degree (transfer

program) should meet with a counselor or advisor to
discuss transferability of courses.

Required Courses:

CISN 11	Telecommunications/Networking	3.	
CISN 11L	Telecommunications/Networking Lab	0.	
CISN 24	Window Server Network	3.	
	and Security Administration		
CISN 24L	Window Server Network	0.	
	and Security Administration Lab		
CISN 51	Cisco CCNA Networking and Routing	3.	
CISN 51L	Cisco CCNA Networking and Routing	0.	
CISS 21	Network Vulnerabilities	3.	
	and Countermeasures		
CISS 21L	Network Vulnerabilities	0.	
	and Countermeasures Lab		
CISS 23	Network Analysis, Intrusion	3.	
	Detection/Prevention Systems		
CISS 23L	Network Analysis, Intrusion	0.	
	Detection/Prevention Systems Lab		
CISS 25	Network Security and Firewalls	3.	
CISS 25L	Network Security and Firewalls Lab	0.	
CISS 29	CNASM Service Learning	1.	
Required Electives:			
Select one (1) course or any one (1) combination			

lecture-lab course from the following: (1-3.5 units)

CISS 11	Practical Computer Security	2.0
CISB 11	Computer Information Systems	3.5
CISS 27	Defending Computer Systems	1.0
CISN 21	Windows Operating System	3.0
CISN 31	Linux Operating System	3.0
CISN 31L	Linux Operating System Laboratory	0.5
	<u>or</u>	
CISN 34	Linux Networking and Security	3.0
CISN 34L	Linux Networking and Security	0.5
	Laboratory	
	<u>or</u>	
CISP 21	Programming in Java	3.0
CISP 21L	Programming in Java Laboratory	0.5
	<u>or</u>	
CISP 31	Programming in C++	3.0
CISP 31L	Programming in C++ Laboratory	0.5
	Total Units 23.0	- 25.5

Computer Programming

Business Division Degree S7302

The A.S. Degree in Computer Programming is designed to prepare students for a career in computer programming. The degree offers a balanced set of classes that provides students with client, server and database programming skills required by the industry. Emphasis is placed on object-oriented programming applications, configuring servers, creating and navigating databases, and reusable software components. Students will demonstrate the ability to design and implement business environment applications that will contain the front end user interface and back end database. Student in this program select one of the following three programming language concentrations: C++, Visual Basic.NET or Java. Career opportunities available after the completion of this degree include programming for systems, mobile devices, device drivers and software engineering. Students wishing a bachelor's degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

	•	
Required Courses:		
CISB 11	Computer Information Systems	3.5
CISB 15	Microcomputer Applications	3.5
CISM 11	Systems Analysis and Design	3.5
CISN 21	Windows Operating System	3.0
	<u>or</u>	
CISN 31	Linux Operating System	3.0
CISN 31L	Linux Operating System Laboratory	0.5
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	3.0
	- Microsoft Access	
CISD 11L	Database Management	0.5
	- Microsoft Access Lab	
	<u>or</u>	
CISD 21	Database Management	3.0
	- Microsoft SQL Server	
CISD 21L	Database Management	0.5
	- Microsoft SQL Server Laboratory	

CISP 24

CISP 24I

Programs of Study Leading to an Associ		
	<u>or</u>	
CISD 31	Database Management - Oracle	3.0
CISD 31L	Database Management	0.5
	- Oracle Laboratory	
Required	Electives (7 Units)	
PLUS one	of the following concentrations:	
C ++		
CISP 31	Programming in C++	3.0
CISP 31L	Programming in C++ Laboratory	0.5
CISP 34	Advanced C++ Programming	3.0
CISP 34L	Advanced C++ Programming	0.5
	Laboratory	
	<u>or</u>	
Visual Ba	sic:	
CISP 11	Programming in Visual Basic	3.0

CISP 11	Programming in Visual Basic	3.0
CISP 11L	Programming in Visual Basic	0.5
	Laboratory	
CISP 14	Advanced Visual Basic .NET	3.0
CISP 14L	Advanced Visual Basic.NET Laboratory	0.5
	<u>or</u>	
Java:		
CISP 21	Programming in Java	3.0

Programming in Java Laboratory

Advanced Java Programming

Advanced Java Laboratory

Constr	uction Inspection	
	Total Units	29.0 - 31.5
CIJI Z-IL	Mavaneca Java Laboratory	0.5

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

Required Courses

nequireu	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

Recommended Flectives

cilaca Liccuivesi	
Architectural Drawing	3.0
Architectural Working Drawings I	3.0
Reading Construction Drawings	3.0
	Architectural Drawing Architectural Working Drawings I

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

Required Courses:

0.5

3.0

0.5

ADJU 68	Administration of Justice Report	3.0
	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 Sele	ect 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	ended Electives:	
KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire Techn	ology
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice and Fire Techn	ology

KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Tec	hnology
	and Forestry	

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

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

Degree S2117

CHLD 1	Child, Family, School and Community	3.0
CHLD 10	Child Growth and Lifespan Developmer	t 3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Lifespan Development- 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 and Issues in 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	ended 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.

l	nequireu v	courses.	
	ELEC 11	Technical Applications	3.0
		in Microcomputers	
	ELEC 12	Computer Simulation	2.0
		and Troubleshooting	
	ELEC 50A	Electronic Circuits - Direct Current (DC	2) 4.0
	ELEC 50B	Electronic Circuits (AC)	4.0
	ELEC 51	Semiconductor Devices and Circuits	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 2.0
		Total Units	45.0

Recommended Electives: CISP 11 Programming in Visual Basic 3.0 EDT 11 Technical Engineering Drawing I 3.0 ELEC 62 Advanced Surface Mount Assembly 2.0 and Rework ELEC 76 FCC General Radiotelephone Operator 2.0 License Preparation

Emergency Medical Services Technology and Health Division Degree S1210

PHYS 2AG General Physics

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.

Required Courses:

EMS 10	Anatomy and Physiology	2.0
	for Paramedics	
EMS 20	Emergency Cardiac Care for Paramedics	1.5
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 3	8.0
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) 274-7500, 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 tests 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 tests are 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.

Required Courses:

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 - Direct Current (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 equip-

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:

AGAG 1	Food Production, Land Use	3.0
	and Politics - A Global Perspective	
AGAG 59	Work Experience in Agriculture	1.0 - 4.0
AGOR 51	Tractor and Landscape Equipment	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 Fundame	ntals3.0
AGOR 72	Landscape Hardscape Applications	s 3.0
CISB 15	Microcomputer Applications	3.5
	Total Units 34.	5 - 37.5

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 institu-

Required Courses:

nequireu	404.5451	
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	Aesthetic Design in Fashion	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
טכווכחו	rasilion besign and rioduct	5.0
טכווכאו	Development I	3.0
1431130	Development I	36.0
	Development I	
	Development I Total Units	
Recomme	Development I Total Units nded Electives	36.0
Recomme FASH 24	Development I Total Units nded Electives Fashion Patternmaking by Computer	36.0 3.0
Recomme FASH 24 FASH 35	Development I Total Units nded Electives Fashion Patternmaking by Computer Special Topics in Fashion Design	3.0 2.0
Recomme FASH 24 FASH 35	Development I Total Units nded Electives Fashion Patternmaking by Computer Special Topics in Fashion Design Work Experience in Fashion	3.0 2.0
Recomme FASH 24 FASH 35 FASH 81	Development I Total Units nded Electives Fashion Patternmaking by Computer Special Topics in Fashion Design Work Experience in Fashion Merchandising and Retail	3.0 2.0 1.0
Recomme FASH 24 FASH 35 FASH 81 FASH 90	Development I Total Units nded Electives Fashion Patternmaking by Computer Special Topics in Fashion Design Work Experience in Fashion Merchandising and Retail Field Studies	3.0 2.0 1.0
Recomme FASH 24 FASH 35 FASH 81 FASH 90 FASH 91	Development I Total Units nded Electives Fashion Patternmaking by Computer Special Topics in Fashion Design Work Experience in Fashion Merchandising and Retail Field Studies Field Studies - New York	3.0 2.0 1.0 1.0 2.0
Recomme FASH 24 FASH 35 FASH 81 FASH 90 FASH 91 FASH 92	Development I Total Units nded Electives Fashion Patternmaking by Computer Special Topics in Fashion Design Work Experience in Fashion Merchandising and Retail Field Studies Field Studies - New York Field Studies - Fashion Capitals	3.0 2.0 1.0 1.0 2.0 3.0

Fashion Merchandising

Business Division Degree S1308

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:	
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	Aesthetic Design in Fashion	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 Buying	3.0
	and Merchandising	
	<u>or</u>	
BUSS 50	Retail Store Management	3.0
	and Merchandising	
FASH 63	Fashion Retailing 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
	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.

Required Courses:

nequired	Courses.	
FIRE 1	Fire Protection Organization	3.0
FIRE 2	Fire Prevention Technology	3.0
FIRE 3	Fire Protection Equipment and Sy	stems3.0
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	ect two (2) courses from: (5.5-2	5 Units)
EMT 90	Emergency Medical Technician 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	e 2.5
	Academy	
	Total Units 23	.5 - 43.0
Recomm	ended Electives:	
KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire	<u> </u>
	Technology	
KINF 51	Agility Testing Preparation for	1.0
	Administration of Justice and Fire Te	echnology
KINF 52	Fitness and Conditioning for	1.0
	Administration of Justice, Fire Tec	hnology,
	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 - Financi	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	3.5
Select six	(6) units from:	
BUSA	Business: Accounting	1.0 - 5.0
BUSC	Business: Economics	3.0
BUSL	Business: Law	1.0 - 3.0
BUSM	Business: Management	1.0 - 4.0
BUSS	Business: Sales, Merchandising	1.0 - 4.0
	and Marketing	
CISB	Computer Information Systems	2.0 - 4.0
	Beginning	
	Total Units	41.5

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

ARTC 120 Graphic Design II

/IIIIC 120	diapilic besign ii	5.0	
ARTC 160	Typography	3.0	Pa
ARTC 165	Illustration	3.0	ex
ARTC 290	Portfolio	3.0	tio
ARTD 15A	Drawing: Beginning	3.0	fu
ARTD 17A	Drawing: Life	3.0	ca
ARTD 20	Design: Two Dimensional	3.0	R
ARTD 25A	Beginning Painting I	3.0	Al
Plus selec	t (1) course from: (3 Units)		
AHIS 5	History of Western Art:	3.0	Al
	Renaissance Through Modern		Al
AHIS 5H	History of Western Art:	3.0	Cł
	Renaissance Through Modern - Hon	ors	
AHIS 6	History of Modern Art	3.0	Cł
AHIS 6H	History of Modern Art - Honors	3.0	
	Total Units	30.0	CH
Recomme	nded Electives:		
AHIS 4	History of Western Art:	3.0	Cł
	Prehistoric Through Gothic		H.
ANIM 172	Motion Graphics, Compositing	3.0	H.
	and Visual Effects		
ANIM 175	Web Animation With Flash	3.0	H.
ARTC 140	Graphic Design III	3.0	H.
ARTC 299	Graphic Design Internship	1.0	H.
ARTD 16	Drawing: Perspective	3.0	H.
ARTD 45A	Printmaking: Introduction	3.0	
	to Screenprinting		H.
ARTS 22	Design: Three-Dimensional	3.0	M
PHOT 10	Basic Digital and Film Photography	3.0	
			М

Histologic Technician Training Natural Sciences Division Degree S1211

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

careers in t	ne private sector.	
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	5.0
	<u>or</u>	
CHEM 40	Introduction to General Chemistry	5.0
	<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	44.0

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.

Required Courses:

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

Hospitality and Restaurant Management

Business Division Degree S1307

This Associate of Science in Hospitality and Restaurant Management prepares students for mid-level or Manager-In-Training position in the hospitality industry. Students gain practical and management training in: food safety and sanitation, food production, dining room service management, supervision, cost control, financial accounting, lodging management, and hospitality law. Students who successfully complete the requirements for this degree will also earn the Food Protection Manager Certification from the National Restaurant Association upon passing the ServSafe Exam. This program is designed to articulate with the Collins College of Hospitality Management at Cal Poly Pomona as well as other universities. Students wishing to transfer should consult with Hospitality Management Coordinator to discuss transfer options.

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 56	Hospitality Supervision	3.0
HRM 57	Hospitality Cost Control	3.0
HRM 64	Hospitality Financial Accounting	3.0
HRM 66	Hospitality Law	3.0
HRM 70	Introduction to Lodging	3.0
PLUS one	of the following (3 units):	
HRM 61	Menu Planning	3.0
HRM 62	Catering	3.0
	<u>or</u>	
HRM 91	Hospitality Work Experience	1.0
	(This is a variable unit course. Three (2	3)
	units are required)	
	Total Units	28.5

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	3.5
	Total Units	27.5

Industrial Design Engineering

Technology and Health Division 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:

DE 110	Design Foundation - Visual Literacy	3.0
DE 120	Intro to CAD	3.0
DE 130	Shop Processes	3.0
DE 150	Design Foundations	3.0
DE 160	Intermediate CAD	3.0
DE 170	Introduction to Prototyping	3.0
DE 210	Advanced Media	3.0
DE 220	Advanced CAD	3.0
DE 230	Intro to Mechanical Principles	3.0
DE 250	Product Design and Viability	6.0
DE 270	Manufacturing Processes	3.0
	and Materials	
	Total Units	36.0

Recommended Electives:

ELEC 50A	Electronic Circuits - Direct Cur	rrent (DC) 4.0
ELEC 81	Laboratory Studies	1.0 - 2.0
	in Electronics Technology	
MATH 51	Elementary Algebra	4.0
PHYS 1	Physics 1	4.0
WELD 30	Metal Sculpture	2.0
WELD 40	Introduction to Welding	2.0

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

Design Drawing for Interior Design

Space Planning for Interior Design I 3.0 Space Planning for Interior Design II 3.0

Building Systems for Interior Design

3.0

3.0

3.0

3.0

3.0

Computer Aided Drawing

for Interior Design I

Rapid Visualization

Interior Design Studio I

Lighting Design and Theory

ID 22

ID 23

ID 25

ID 26 ID 27

ID 29

ID 31

ID 32

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:

nequireu	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 Operations	3.0
Students	must take at least 6 units of any of	the

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

ionowing.		
BIOL 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	0.5
BTNY 3	Plant Structures, Functions,	5.0
	and Diversity	
CHEM 10	Chemistry for Allied Health Majors	5.0
CHEM 20	Introductory Organic and Biochemistry	5.0
CHEM 40	Introduction to General Chemistry	5.0

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 II	5.0		
From the f	From the following list complete (9 Units)			
AGOR 2	Plant Propagation/Greenhouse	3.0		
	Management			
AGOR 15	Interior Landscaping	3.0		
AGOR 32	Landscaping and Nursery	3.0		
	Management			
AGOR 40	Sports Turf Management	3.0		
AGOR 75	Urban Arboriculture	3.0		
	Total Units	42.0		

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.

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	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	ended Electives:	
AGOR 13	Landscape Design	3.0
AGOR 15	Interior Landscaping	3.0
ARCH 23	Architectural Presentations	3.0
ARTG 20	Art, Artists and Society	3.0
BUSA 72	Bookkeeping - Accounting	5.0
ID 50	Interior Design Specialized Studio	3.0
ID 52	Independent Studies in Interior Designation	gn1.0

Interior Design-Kitchen and Bath Business Division

Degree S1302

The Interior Design: Kitchen and Bath Design A.S. degree provides students with specialized skills in th 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 an 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

	10 32	Eighting Design and Theory	5.0
0.0		for Interior Design	
	ID 34	Computer Aided Drawing	3.0
3.0		for Interior Design II	
3.0	ID 36	Professional Practices	3.0
3.0		for Interior Design	
3.0		<u>or</u>	
5.0	ID 37	Business Practices for Interior Design	3.0
3.0	ID 38	Internship in Interior Design	2.0
1.0		(1.0 - 3.0 unit course, 2.0 units require	d)
	ID 39	Interior Design Studio II	3.0
h	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	58.0
he	Recomme	ended Electives:	
y	ARCH 23	Architectural Presentations	3.0
y S	BUSA 72	Bookkeeping - Accounting	5.0
J	BUSM 66	Small Business Management	3.0
	BUSS 50	Retail Store Management	3.0
n		and Merchandising	
nd	ID 50	Interior Design Specialized Studio	3.0
nd	ID 52	Independent Studies in Interior Desig	n1.0
iiu	l	-	
	-		

International Business

Business Division Degree S0507

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

BUSL 20	International Business Law	3.0
BUSM 20	Principles of Business	3.0
BUSM 50	World Culture: A Business Perspective	3.0

	or	
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 sele	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 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	

Required Electives

PLUS select four (4) courses from the following (12 units)

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
CORS 10	Introduction to Correctional Sciences	3.0
SOC 1	Sociology	3.0
	<u>or</u>	
SOC 1H	Sociology - Honors	3.0
SOC 5	Introduction to Criminology	3.0
	<u>or</u>	
SOC 5H	Introduction to Criminology - Honors	3.0
	Total Units	30.0
Recomme	nded Electives:	
KINF 50	Physical Skills Preparation for	2.0
	Administration of Justice and Fire Technology	ology
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	

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

1. Human Anatomy, including a laboratory component, a minimum of four semester units.

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

 4. English 1A (Writing Composition) minimum of three
 (3) semester units with a minimum grade of C.
- 5. PSYC 1A Introduction to Psychology.
- 6. CHLD 10 Child Growth and Lifespan 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.
NURS 5	Psychiatric Nursing	3.
NURS 6	Pediatric Nursing	3.

	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:	4.5
		Integration/Regulation	
	NURS 11	Preceptorship in Nursing	2.0
	Requirem	ents for the Major: (31-33 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 Lifespan Development	3.0
		<u>or</u>	
	CHLD 10H	Child Growth	3.0
		and Lifespan Development- 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 60.5 - 6	
	NOTE: Appl	icants planning to continue their educa	tion
ı	and enter a	haccalaureate program in Nursing will	

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 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 ES-SENTIAL 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
- 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 Perspec	tive
AGAG 59	Work Experience in Agriculture	1.0 - 4.0
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 Manage	ment 4.0
AGLI 17	Sheep Production	3.0
AGLI 30	Beef Production	3.0
AGLI 34	Livestock Judg & Selec	2.0
AGLI 96	Animal Sanitation and Disease	Control 3.0
PLUS selec	t (6 Units)	
AGOR 53	Small Engine Repair I	3.0
AGOR 71	Landscape Construction Funda	mentals3.0
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	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:

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

Marketing Management

Business Division Degree S0510

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

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	3.5

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	
BUSC 1B	Principles of Economics	3.0
	- 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	28.5

Mental Health Technology - Psychiatric Technician

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:

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	1.5
MENT 70L	Introduction to Psychiatric Technology	2.0
	Clinical Technicians	
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 for Psychiatric	6.0
	Technicians	
MENT 82	Work Experience in Mental Health	2.0
	Technology	
PSYC 1A	Introduction to Psychology	3.0
	<u>or</u>	
PSYC 1AH	Introduction to Psychology – Honors	3.0
	Total Units	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.
- 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) 274-7500, 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) 274-7500, 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. *Please see page 80, Licensed Vocational Nurse to RN, and page 85, Psychiatric Technician to RN for descriptions on alternative points of entry to the Nursing program.*

Prerequisite courses:

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

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

Non-course requirements:

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of the courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for MATH 51
- High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Criminal background check and drug screening must be completed prior to any patient contact.
- 6. 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: (45 Units)

nequirements for warsing: (45 offics)		
The Nursing Process I	5.0	
The Nursing Process II	5.0	
Pharmacology	2.0	
	The Nursing Process I The Nursing Process II	

Nursing.

NURS 3	Medical-Surgical Nursing: Locomotion/Sensation/Integument/	3.5	
	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 and Oxygenation	5.5	
NURS 9	Leadership in Nursing	1.0	
NURS 10	Medical-Surgical Nursing:	4.5	
	Integration/Regulation		
NURS 11	Preceptorship in Nursing	2.0	
Requirem	ents for the Major: (31-33 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 Lifespan Development	3.0	
	<u>or</u>		
CHLD 10H	Child Growth	3.0	
	and Lifespan Development- Honors		
DOVE 4.4	<u>or</u>		
PSYC 14	Developmental Psychology	3.0	
PSYC 1A	Introduction to Psychology	3.0	
2000 4411	<u>or</u>		
PSYC 1AH	Introduction to Psychology - Honors	3.0	
SPCH 1A	Public Speaking	4.0	
CDCII 4 AII	<u>or</u>		
SPCH 1AH	Public Speaking - Honors	4.0	
חכעה מי	Total Units 76.0 - 78.0		
PSYC 1A must be completed prior to entrance into NURS 5: Psychiatric Nursing CLUD 10 or PSYC 14 must			
NURS 5: Psychiatric Nursing. CHLD 10 or PSYC 14 must			
ne complet	be completed prior to entrance into NURS 6: Pediatric		

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

Programs of Study Leading to an Associate Degree

- 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

Required Courses: Food Production, Land Use AGAG 1 3.0 and Politics - A Global Perspective AGOR 1 Horticultural Science 3.0 3.0 AGOR 2 Plant Propagation/Greenhouse Management AGOR 13 Landscape Design 3.0 **Integrated Pest Management** 3.0 AGOR 24 AGOR 29 Ornamental Plants - Herbaceous 3.0 3.0 AGOR 30 Ornamental Plants - Trees and Woody Shrubs AGOR 32 Landscaping and Nursery 3.0 Management Turf Grass Production AGOR 39 3.0 and Management AGOR 50 Soil Science and Management 3.0 AGOR 62 Landscape Irrigation - Design 3.0 and Installation AGOR 71 Landscape Construction Fundamentals 3.0 Complete one (1) to four (4) units from the following course: 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 Tractor and Landscape Equipment AGOR 51 3.0 Operations Small Engine Repair I 3.0 AGOR 53

Landscape Irrigation Systems

Microcomputer Applications

Landscape Hardscape Applications

Management

Total Units

Urban Arboriculture

3.0

3.0

3.0

3.5

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:

<u>or</u>

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 I	3.0
PLGL 33B	Civil Procedure II	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

	Total Units	35.0
20	International Business Law	3.0
19	Advanced Business Law	3.0
18H	Business Law - Honors	3.0
_	_18H	_ 18H Business Law - Honors

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 manage a park or sports facility and also for employment following graduation. Students will learn how to design, install and manage irrigation systems, set up and implement fertilizer and pest management programs, design and properly install a complete landscape (including all plants and hard cape), and properly identify and maintain trees, shrubs and turf grasses. In addition, students will learn about personnel management, budgeting and other management topics.

Required Courses:

nequireu	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 63

AGOR 72

AGOR 75

CISB 15

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	Complete one (1) to four (4) units from the fol-		

Complete one (1) to four (4) units from the following 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 Contro	13.0
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 \$1002

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:

Kequirea (Lourses:	
GRAP 10	Photoshop Imagery	3.0
PHOT 10	Basic Digital and Film Photography	3.0
PHOT 11	Intermediate 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
PHOT 1	Laboratory Studies:	1.0
	Black and White Photography	
PHOT 25	Digital Capture Workflow	3.0
PHOT 29	Studio Business Practices	3.0

for Commercial Artists

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:

ANAT 35 Human Anatomy

ANAI 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 - Hono	ors 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 Educ	ation 3.0
KIN 19	Introduction to Care/Prevent	ion 3.0
	of Activity/Sports -Related In	juries
KIN 34	Fitness for Living	3.0
PLUS: Sel	ect eight (8) courses from:	
DNCE	Dance Activity	0.5 - 2.0
KINA	Kinesiology: Aquatics	0.5 - 2.0
KINF	Kinesiology: Fitness	0.5 - 2.5
KINI	Kinesiology: Individual	0.5 - 1.0
KINL	Kinesiology: Adaptive	0.5 - 1.0
KINS	Kinesiology: Sports	0.5 - 1.0
	Total Units	29.0 - 42.5

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.
- 4. English 1A (Writing Composition) minimum of three semester units with units with a minimum grade of C.
- 5. PSYC 1A Introduction to Psychology.
- CHLD 10 Child Growth and Lifespan Development or PSYC 14 Developmental Psychology.

Non-course requirements:

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of the courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for MATH 51.
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Possess a current California Psychiatric Technician License.
- 6. Criminal background check and drug screening must be passed prior to any patient contact.
- 7. 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:

Requirements for Nursing: (30 Units)

Requirements for Nursing: (30 Units)			
NURS 3	Medical-Surgical Nursing:	3.5	
	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 Asepsi	S	
NURS 8	Medical-Surgical Nursing:	5.5	
	Circulation and Oxygenation		
NURS 9	Leadership in Nursing	1.0	
NURS 10	Medical-Surgical Nursing:	4.5	
	Integration/Regulation		
NURS 11	Preceptorship in Nursing	2.0	
Requirem	ents for the Major: (31-33 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 Lifespan Development	3.0	
	<u>or</u>		
CHLD 10H	Child Growth	3.0	
	and Lifespan Development- 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 - Hono	rs 3.0
SPCH 1A	Public Speaking	4.0
	<u>or</u>	
SPCH 1AH	Public Speaking - Honors	4.0
	Total Units 61.0	- 63.0

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

Requirements for the Associate degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the 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.
- All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

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

- September 1 October 31
- March 1 April 30

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

Physical Demands:

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

Sensory Demands:

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

Working Environment:

May be exposed to infectious and contagious disease, without prior notification

- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a 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 entry-level jobs in a variety of areas including production, promotion, copywriting and management. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of optional courses. Students intending to pursue a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

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

3.0

5.0

R-TV 15	Broadcast Law and Business Pract	ices 3.0	
R-TV 96	Campus Radio Station Lab	1.0 - 2.0	
The follow	wing courses must be taken		
simultan	eously:		
R-TV 97A	Radio/Entertainment Industry Sem	ninar 1.0	
R-TV 97B	Radio/Entertainment Industry	1.0	
	Work Experience		
PLUS select nine (9) units from:			
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 33.	0 - 34.0	

Radio Broadcasting: On the Air Arts Division Degree \$0605

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:

kequirea (Lourses:	
R-TV 01	Introduction to Electronic Media	3.0
R-TV 02	On-Air Personality Development	3.0
R-TV 05	Radio-TV Newswriting	3.0
R-TV 07A	Beginning Commercial Voice-Overs	3.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 15	Broadcast Law and Business Practices	3.0
R-TV 95	Campus Radio Station Operations	1.5
R-TV 96	Campus Radio Station Lab	1.0
R-TV 97A	Radio/Entertainment Industry	1.0
	Seminar	
R-TV 97B	Radio/Entertainment Industry	1.0
	Work Experience	

Required Electives

Plus nine (9) units from the following courses:

R-TV 03	Sportscasting and Reporting	1.5
R-TV 04	Broadcast News Field Reporting	3.0

R-TV 06	Broadcast Traffic Reporting	1.5
R-TV 09	Broadcast Sales and Promotion	3.0
R-TV 10	Radio Programming	3.0
	and Producer Techniques	
R-TV 11B	Advanced Radio Production	3.0
R-TV 17	Internet Radio and Podcasting	3.0
R-TV 31	History of Radio DJs	3.0
R-TV 32	Radio - TV Internet Applications	3.0
R-TV 34	On-Camera Performance	1.5
R-TV 35	Pop Culture in the Media	3.0
R-TV 101	Work Experience in Broadcast	1.0
	Entertainment	
	Total Units	31.5

Radiologic Technology

Technology and Health Division Degree S1206

The Radiologic Technology program, which is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), is designed to prepare students to function as certified radiologic technologists. Students will gain knowledge and understanding of the diagnostic uses of x-ray, as well as the technical skills to use x-ray equipment in both laboratory and clinical settings. The courses are developed to enable students to operate x-ray equipment, assist in the diagnosis of disease, and to observe proper medical ethics. Students will learn the nature of radiation, the principles of electricity, the structure of x-ray machines, and the operation of a clinical x-ray department.

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

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

Required Courses:

ANAT 10A	Introductory Human Anatomy	4.0
ANAT 10B	Introductory Human Physiology	4.0

RAD 1B	Clinical Experience 1B	3.0
RAD 2A	Clinical Experience 2A	5.0
RAD 2B	Clinical Experience 2B	3.0
RAD 3A	Clinical Experience 3A	7.5
RAD 3B	Clinical Experience 3B	3.0
RAD 3C	Clinical Experience 3C	7.5
RAD 4	Clinical Experience IV	4.5
RAD 30	Radiographic Pathology	1.5
RAD 31	Fluoroscopy and Radiobiology	5.5
RAD 32	Digital Imaging in Radiology	2.0
RAD 50	Introduction to Radiologic Science	3.0
	and Health Care	
RAD 61A	Theory of Radiologic Technology	4.0
RAD 61B	Radiographic Procedures I	3.0
RAD 61C	Radiographic Procedures I Laboratory	1.5
RAD 62A	Theory of Radiologic Technology	4.0
RAD 62B	Radiographic Procedures II	3.0
RAD 62C	Radiographic Procedures II Laboratory	y 1.5
RAD 63	Theory of Radiologic Technology	4.0
RAD 64	Theory of Radiologic Technology	4.0
RAD 91	Patient Care in Radiologic Sciences	3.0
		89.5
Note: ANAT	10A, ANAT10B and MEDI 90 may be ta	ken

Medical Terminology

Clinical Experience 1A

Note: ANAT 10A, ANAT10B and MEDI 90 may be taker prior to entering program.

Admission Requirements:

MEDI 90

RAD 1A

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) File a college application and be accepted as a student at Mt. San Antonio College.
- b) 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) 274-7500 ext. 4265. 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

- c) 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.
- d) Submit an application for the Radiologic Technology Program to the Technology and Health Division Office (909) 274-7500, ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. A program begins each summer intersession.
- e) Applicant must be 18 years of age upon entrance into the program.
- f) High school graduate or equivalent. Please provide copy of diploma as proof of high school completion.
- g) 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.
- h) Complete the following prerequisite courses with a minimum grade of "C" in each course. Students must complete prerequisite courses

before admission to the program.

- 1. MATH 51 Elementary Algebra (equivalent course or higher).
- 2. CHEM 10 Chemistry for Allied Health (equivalent course or higher).
- i) 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.
- c) All students will be required to pass a criminal background check prior to entering the clinical education phase (a valid Social Security number is required to complete this process.)

Selection Procedure:

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

Program Completion Requirements:

- a) All students entering the Radiologic Technology 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 Radiologic Technology will be given. This certificate will permit the student to apply for the registry exam through the American Registry of Radiologic Technologist and the California Certification of Radiologic Technology.
- b) 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.
- c) 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, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions critical to patient safety
- Exposed to products containing latex

Required Skills and Physical Abilities:

In order to ensure student and patient safety and welfare, the radiologic technology student 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

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 s	ucceed 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	3.5
PLUS Grou	p A Select two (2), three (3) or four	(4)
courses fro	om:	
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
	p B Select zero (0), one (1) or two (2)
courses fro	om:	
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	3.0
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	3.0

BUSO 5

BUSO 25

BUSO 26

BUSS 35

BUSS 36

PSYC 1A

PSYC 1AH

Business Enalish

Professional Selling

Total Units

Principles of Marketing

Introduction to Psychology

Business Communications

Oral Communications for Business

Introduction to Psychology - Honors 3.0

3.0

3.0

3.0

3.0

3.0

3.0

31.0 - 47.0

Business Division Degree S0512

This program prepares students for employment

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)

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 Contr	ol 3.0
Required	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 Car	e 3.0
AGHE 84B	App. Animal Health Proc.	1.0
AGHE 85	Seminar in Registered Veterinary	1.0
	Technology	
AGHE 86	Anatomy and Physiology	4.0
	of Domestic Animals	
Complete	four (4) units of work experience	
AGHE 83A	Work Experience in Animal Health 1.0) - 2.0
Select six	(6) units from:	
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:

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 Assessmen	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:

- 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.
- 3) Applicant must take the College placement exams before taking any of the prerequisite or respiratory therapy courses. NOTE: Testing is administered by the Assessment Center located in the Student Services Center, Building 9B. You may contact them at (909) 274-7500, 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
Respiratory Therapy Program
1100 North Grand Avenue
Walnut CA 91789-1389

4) Submit an application for the Respiratory Therapy Program to the Technology and Health Division Office (Bldg. 28A, Room 101E), (909) 274-7500. ext. 4750.

All applications are dated upon receipt.

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

Programs of Study Leading to an Associate Degree

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 courses requires completion of the Associate degree. The student may elect to pursue either the Associate in Science or Associate in Arts degree. All students entering the program must submit an educational plan showing the major course requirements 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:

nequireu	Courses.	
SIGN 105	American Sign Language 5	4.0
SIGN 108	Fingerspelling	2.0
SIGN 201	Introduction to Deaf Studies	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

	Total Units	41.0 - 4	2.0
SL 2	Linked Service Learning		1.0
SIGN 260	Video Interpreting		1.5
SIGN 250	Interpreting with Classifiers		1.5
SIGN 240	Vocabulary Building for Interp	reters	2.0
PLUS Sele	ct three (3) courses from:		
SIGN 239	Applied Interpreting		2.0
SIGN 232	Advanced Interpreting		4.0
SIGN 231	Interpreting		4.0
SIGN 227	Cognitive Processing for Interp	reters	4.0
JIGIV 223	for Interpreters		2.0
SIGN 225	Ethical Decision Making		2 0

Small Business Management Business Division

Degree S0508

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

Required Courses:

quii.cu	40415451			
BUSA 7	Principles of Accounting - Financial	5.0		
BUSM 10	BUSM 10 Principles of Continuous Quality			
	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		3.5		
	Total Units	29.5		
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		
The Small Business Management faculty recommends				
that students complement their studies with selected				
elective courses chosen from the list above. Students				

should meet with a professor of Small Business

would best suit their career plans.

Management to help them determine which electives

Television Production Arts Division Degree S0602

The Associate in Science degree in Television Production is designed to prepare students for entry-level jobs in the Television industry in a variety of areas including narrative, remote and studio production, writing, preproduction, editing, and finance.

Required Courses:

Choose two (2) of the following courses:

R-TV 01	Introduction to Electronic Media	3.0
R-TV 14	Media Aesthetics	3.0
R-TV 28	Introduction to Writing	3.0
	for Electronic Media	

PLUS 12 units from the following courses or any of the above courses not taken:

0	ore tourses not tunenn	
PHOT 10	Basic Digital and Film Photography	3.0
R-TV 18	Introduction to Screenwriting	3.0
R-TV 19A	Beginning Video Production	3.0
R-TV 19B	Advanced Video Production	3.0
R-TV 20	Television News Production	3.0
R-TV 21	Remote Multicamera Production	3.0
R-TV 22	Editing for Film and Television	3.0
R-TV 23	Reality Show Production	3.0
R-TV 24	American Film History	3.0
R-TV 25	World Cinema	3.0
R-TV 100	Work Experience in Film and TV	1.0
	Total Units	18.0

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.

Required Courses:

FDT 11

WELD 30

WELD 60

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	21.0
Recomme	nded Electives:	
BUSM 61	Business Organization	3.0
	and Management	

Technical Engineering Drawing I

Print Reading and Computations

Metal Sculpture

for Welders WELD 81 Pipe and Tube Welding

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Business Degree A8981

3.0

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:			
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	3.5	

ASSOCIATE IN ARTS DEGREE (AA) WITH EMPHASES Liberal Arts and Sciences with area of emphasis in one of the following:

			,
Business	91	Language Arts	94
Communication			
Fine Arts	92	Music	95
Humanities	93	Natural Sciences	96
Information Technology	93	Social & Behavioral Sciences	96
Kinesiology and Wellness			

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 63 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 105 of this catalog or from the Intersegmental General Education Transfer Core Curriculum (IGETC) pattern listed on page 109 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 109 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.

	<u>or</u>		
CISB 11	Computer Information Systen	ns	3.5
Plus selec	t a minimum of three (3) cou	ırses fro	m
the follow	ring which should be selecte	d in con	sul-
tation wit	h a counselor or educationa	l adviso	r.
BUSA 7	Principles of Accounting - Fina	ancial	5.0
BUSA 8	Principles of Accounting - Ma	nagerial	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 - 2	2.5
	for Area of Emphasis		
Recomme	ended Electives:		
SPCH 7	Intercultural Communication		3.0

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Communication Degree A8982

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

Required Courses:

Core/Required Courses (7 units)

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	s 3.0
PLUS Sele	ct eleven (11) units from the follow	ing:
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

	for Area of Emphasis	
	Totals Units	18.0
R-TV 99	Radio/TV Special Projects	2.0
R-TV 19A	Beginning Video Production	3.0
R-TV 11A	Beginning Radio Production	3.0
R-TV 01	Introduction to Electronic Media	3.0
PHOT 10	Basic Digital and Film Photography	3.0
JOUR 111	Broadcast News Writing	3.0
JOUR 102	Intermediate Newswriting	3.0
JOUR 101	Beginning Newswriting	3.0
JOUR 100	Introduction to Mass Media	3.0
SPCH 99	Special Projects in Speech	2.0
SPCH 30	Gateway to Communication Studies	3.0
SPCH 20H	Argumentation and Debate - Honors	3.0
JI CII 20	or	5.0
SPCH 20	Argumentation and Debate	3.0
SPCH 18	Forensics: Reader's Theater Team	3.0
SPCH 17	Forensics: Dehate Team	3.0
SPCH 16	Speech and Debate Forensics: Individual Event Team	3.0
SPCH 15	Forensics: Fundamentals of Contest	2.0
CDCII 45	Speaking - Honors	
SPCH 8H	Professional and Organizational	4.0
	Speaking or	
SPCH 8	Professional and Organizational	4.0
SPCH 7H	Intercultural Communication Honors	٥.٠
	<u>or</u>	
SPCH 7	Intercultural Communication	3.0
SPCH 6	Group Communication	3.0

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 12 units from the list of approved electives.

Required Courses:

ARTD 15A	Drawing: Beginning	3.
ARTD 17A	Drawing: Life	3.

ARTD 20	Design: Two-Dimensional	3.0
ARTD 21	Design: Color and Composition	3.0
ARTD 25A	Beginning Painting I	3.0
ARTS 22	Design: Three-Dimensional	3.0
AHIS 4	History of Western Art:	3.0
	Prehistoric Through Gothic	
	or	
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 - Honor	s
PLUS Selec	ct twelve (12) units from one of th	
following	art categories:	
Ceramics:	-	
ARTS 30A	Ceramics: Beginning I	3.0
ARTS 30B	Ceramics: Beginning II	3.0
ARTS 31	Ceramics: Advanced Studio	2.0
ARTS 33	Ceramics: Hand Construction	3.0
ARTS 34	The Sculptural Vessel	3.0
Sculpture:	:	
ARTS 40A	Sculpture: Beginning	3.0
ARTS 40B	Sculpture: Intermediate	3.0
ARTS 40C	Sculpture: Carving	3.0
ARTS 41A	Sculpture: Life	3.0
ARTS 41B	Sculpture: Intermediate Life	3.0
ARTS 42	Sculpture: Mold Making	3.0
ARTS 46A	Sculpture: Special Effects Makeup	3.0
ARTS 46B	Sculpture: Special Effects Makeup	3.0
Drawing:		
	Drawing - Gesture and Figure	3.0
	Figure Gesture - Design	3.0
ANIM 101C	Figure Gesture-Design	3.0
ANIM 107	Figure in Motion	3.0
ANIM 111A	Animal Drawing	1.5
ANIM 111B	Animal Drawing	1.5
ARTD 15B	Drawing: Intermediate	3.0
ARTD 16	Drawing: Perspective	3.0
ARTD 17B	Drawing: Life-Advanced	3.0

ARTD 23A Drawing: Heads and Hands

ARTD 23B Drawing: Advanced Heads and Hands 1.5 ARTD 23C Drawing: Expressive Heads and Hands 1.5

1.5

Illustratio		
Illustratio ARTC 100		2.0
	Graphic Design I	3.0
ARTC 163	Dynamic Sketching	3.0
ARTC 165	Illustration	3.0
ARTC 167	Visual Development	3.0
ARTC 169	Conceptual Illustration	3.0
ARTC 290	Portfolio	3.0
ARTD 19A	Figure Painting	3.0
Figure:	D : 6 : 15	2.0
	Drawing - Gesture and Figure	3.0
	Figure Gesture - Design	3.0
	Figure Gesture-Design	3.0
ANIM 107	Figure in Motion	3.0
	Animal Drawing	1.5
	Animal Drawing	1.5
ARTD 17B	Drawing: Life-Advanced	3.0
ARTD 19A	Figure Painting	3.0
ARTD 23A	Drawing: Heads and Hands	1.5
ARTD 23B	Drawing: Advanced Heads and Hands	
ARTD 23C	Drawing: Expressive Heads and Hands	
ARTS 41A	Sculpture: Life	3.0
ARTS 41B	Sculpture: Intermediate Life	3.0
Painting:		
ARTD 19A	Figure Painting	3.0
ARTD 25B	Beginning Painting II	3.0
ARTD 26A	Intermediate Painting I	3.0
ARTD 26B	Intermediate Painting II	3.0
ARTD 27	Painting: Watercolor	3.0
Printmaki	-	
ARTD 43A		3.0
ARTD 43B	Intermediate Printmaking	3.0
	in Intaglio/Relief	
ARTD 44A	Printmaking: Introduction	3.0
	to Lithography I	
ARTD 44B	Printmaking:	3.0
	Intermediate Lithography	
ARTD 45A	Printmaking: Introduction	3.0
	to Screenprinting	
ARTD 45B	Printmaking: Intermediate	3.0
	Screenprinting	
ARTD 46A	Printmaking: Introduction	3.0
	to Monotype	
ARTD 46B	Intermediate Painterly Printmaking	3.0
ARTD 47A	Printmaking: Photo and Alternative	3.0
	Processes	

Total Units

SIGN 101

SIGN 102

4.0

4.0

18.0 - 20.0

Photograp	ohy:	
PHOT 10	Basic Digital and Film Photography	3.0
PHOT 12	Photographic Alternatives	3.0
PHOT 17	Photocommunication	3.0
	<u>or</u>	
ARTC 100	Graphic Design I	3.0
PHOT 20	Color Photography	3.0
Gallery:		
ARTC 100	Graphic Design I	3.0
ARTG 20	Art, Artists and Society	3.0
ARTG 21A	Introduction to Exhibition Production	3.0
ARTG 21B	Intermediate Exhibition Production	3.0
	Total Units	36.0
	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 from at least 5 of the following 7 categories:

Required Courses:

Music		
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	

			ı		
AHIS 4	History of Western Art:	3.0	LIT 15	Introduction to Cinema	3.0
	Prehistoric Through Gothic		SPCH 4	Performance of Literature	3.0
	<u>or</u>		THTR 10	History of Theater Arts	3.0
AHIS 4H	History of Western Art: Prehistoric	3.0	Religion a	nnd Literature	
	Through Gothic - Honors		LIT 36	Introduction to Mythology	3.0
AHIS 5	History of Western Art:	3.0	LIT 46	Bible/Lit: Old Testament	3.0
	Renaissance Through Modern		LIT 47	Bible/Lit: New Testament	3.0
	<u>or</u>		PHIL 15	Major World Religions	3.0
AHIS 5H	History of Western Art	3.0		<u>or</u>	
	- Renaissance Through Modern - Hono	ors	PHIL 15H	Major World Religions - Honors	3.0
AHIS 6	History of Modern Art	3.0	History		
	<u>or</u>		HIST 3	World History: Prehistoric	3.0
AHIS 6H	History of Modern Art - Honors	3.0		to Early Modern	
AHIS 9	History of Asian Art	3.0		<u>or</u>	
AHIS 10	A History of Greek and Roman Art	3.0	HIST 3H	World History: Prehistoric to Early	3.0
	and Architecture			Modern - Honors	
AHIS 11	History of African, Oceanic,	3.0	HIST 4	World History: Early Modern	3.0
	and Native American Art			to the Present	
AHIS 12	History of Precolumbian Art	3.0		or	
	and Architecture		HIST 4H	World History: Early Modern	3.0
	or			to the Present - Honors	
AHIS 12H	History of Precolumbian Art	3.0	HIST 10	History of Asia	3.0
711113 1211	and Architecture - Honors	3.0	HIST 11	History of Asia	3.0
ARCH 31	World Architecture I	3.0	HIST 16	The Wild West - A History, 1800-1890	3.0
/illeii 3 i	or	5.0	HIST 19	History of Mexico	3.0
ARCH 32	World Architecture II	3.0	HIST 35	History of Africa	3.0
	y and Political Sciences	5.0	HIST 44	History of Native Americans	3.0
PHIL 12	Ethics	3.0	Foreign La	•	
11111212	or	5.0	ARAB 2	Continuing Elementary Arabic	4.0
PHIL 12H	Ethics - Honors	3.0	CHIN 2	Continuing Elementary Chinese	4.0
PHIL 20A	History of Western Philosophy	3.0	CHIN 3	Intermediate Chinese	4.0
I IIIL ZVA	or	5.0	FRCH 2	Continuing Elementary French	4.0
חוום אווים	History of Western Philosophy - Honors	3.0	FRCH 3	Intermediate French	4.0
PHIL 20AII	History of Western Philosophy	3.0	GERM 2	Continuing Elementary German	4.0
FIIIL ZUD	, , ,	3.0	GERM 3	Intermediate German	4.0
חמער ווחט	<u>or</u> History of Western Philosophy - Honors	2.0	ITAL 2	Continuing Elementary Italian	4.0
POLI 5	Political Theory I - Ancient to Modern		ITAL 3	Intermediate Italian	4.0
POLI 3	Introduction to International Relations		JAPN 2	Continuing Elementary Japanese	4.0
	nd Dramatic Arts Literature	3.0	JAPN 3	Intermediate Japanese	4.0
_		2.0	SPAN 2	Continuing Elementary Spanish	4.0
FRCH 60	French Culture/Cinema	3.0	SPAN 3	Intermediate Spanish	4.0
ITAL 60	Italian Culture Through Cinema	3.0	SPAN 11	Spanish for the Spanish Speaking	4.0
LIT 10	Survey of Shakespeare	3.0	SPAN 12	Continuing Spanish	4.0
LIT 11A	World Literature to 1650	3.0	31,111	for the Spanish Speaking	
LIT 11B	World Literature from 1650	3.0		ioi the spanish speaking	

Associate in Arts degree in Liberal **Arts and Sciences**

American Sign Language 1

American Sign Language 2

for Area of Emphasis

Emphasis in Information Technology Degree A8985

The A.A. Degree in Liberal Arts and Sciences with an emphasis in Information Technology is designed to prepare students for a career in Information Technology. The degree offers a balanced set of classes that enables students to maintain and secure a computer, create and modify computer applications and databases, create customized reports, and use productivity software to solve business problems. Emphasis is place on developing object-oriented, business-related applications, creating and maintaining a database, and utilizing operating system utilities to optimize, maintain and secure a computer. Career opportunities available after the completion of this degree include technical support and systems analyst. Students wishing a bachelor's degree (transfer program) should meet with a counselor or advisor to discuss transferability of course.

Required Courses: Information Technology Basics (7 units) CISB 11 **Computer Information Systems** 3.5 CISB 15 Microcomputer Applications 3.5 Software Development (3.5 units) CISP 11 Programming in Visual Basic 3.0 CISP 11L Programming in Visual Basic 0.5 Laboratory or Programming in Java CISP 21 3.0 CISP 21L Programming in Java Laboratory 0.5 CISP 31 Programming in C++ 3.0 CISP 31L Programming in C++ Laboratory 0.5 CISP 41 Programming in C# 3.0 Programming in C# Lab CISP 41L 0.5

	is of Study Leading to all 7133	~~	<i>-</i>						
	<u>or</u>		CISS 21	Network Vulnerabilities	3.0	KIN 34	Fitness for Living	3.0	or
CISP 52		3.0		and Countermeasures		KIN 39	Techniques of Fitness Testing	2.0	SOC 1H Sociology - Honors 3.0
CISP 52L		0.5	CISS 21L	Network Vulnerabilities	0.5	KIN 44	Theory of Coaching	3.0	SOC 2 Contemporary Social Problems 3.0
	Laboratory			and Countermeasures Lab		DN-T 18	Introduction to Dance	3.0	or
	<u>or</u>				20.0-21.5	DN-T 20	History and Appreciation of Dance	3.0	SOC 2H Contemporary Social Problems - Honors 3.0
CISW 21		3.0		for Area of Emphasis			and Nutrition Background		SOC 20 Sociology of Ethnic Relations 3.0
	with ASP.NET		Recommo	ended Electives:			um of 3 units selected from the fo	llow-	<u>or</u>
CISW 21L	Secure Web Programming	0.5	BUSA 7	Principles of Accounting - Finan	cial 5.0	ing):			SOC 20H Sociology of Ethnic Relations - Honors 3.0
	with ASP.NET Lab		BUSM 20	Principles of Business	3.0	ANAT 10A	Introductory Human Anatomy	4.0	COUN 2 College Success Strategies 3.0
	<u>or</u>		BUSM 60	Human Relations in Business	3.0		<u>or</u>		COUN 5 Career/Life Planning 3.0
CISW 24	Secure Server Side Web Programming	3.0	BUSO 25	Business Communications	3.0	ANAT 35	Human Anatomy	5.0	Total Units 18.0
CISW 24L	Secure Server Side Web Programming	0.5	BUSS 36	Principles of Marketing	3.0	ANAT 10B	Introductory Human Physiology	4.0	for Area of Emphasis
	Lab		CISB 31	Microsoft Word	3.0		<u>or</u>		Activity Course
Database	Technology (3.5 units)		CISB 51	Microsoft PowerPoint	3.0	ANAT 36	Human Physiology	5.0	(A minimum of two courses selected from the
CISD 11	Database Management	3.0	CISM 11	Systems Analysis and Design	3.5	CHEM 10	Chemistry for Allied Health Majors	5.0	following):
	- Microsoft Access		R-TV 17	Internet Radio and Podcasting	3.0		<u>or</u>		Students pursuing an AA degree with an emphasis
CISD 11L	Database Management	0.5	SPCH 26	Interpersonal Communication	3.0	CHEM 40	Introduction to General Chemistry	5.0	in Kinesiology and Wellness are required to take
	- Microsoft Access Lab			<u>or</u>		MICR 1	Principles of Microbiology	5.0	a minimum of two activity courses in at least two
	<u>or</u>		SPCH 26H	Interpersonal Communication	3.0		<u>or</u>		areas of kinesiology or dance: KINA (Aquatics) KINF
CISD 21	Database Management	3.0		- Honors		MICR 22	Microbiology	4.0	(Fitness) KINI (Individual Sports) KINS (Team Sports)
	- Microsoft SQL Server					PHYS 1	Physics	4.0	KINL (Adaptive), KINX (Athletics), DNCE (Dance) plus
CISD 21L	Database Management	0.5	Associ	ate in Arts degree			<u>or</u>		additional units taken from any courses in clusters 1-3
	- Microsoft SQL Server Laboratory			ral Arts and Sciences		PHYS 2AG	General Physics	4.0	above for a total of at least 18 units.
	<u>or</u>			in Kinesiology and Wellness		PSYC 1B	Biological Psychology	3.0	-
CISD 31	Database Management - Oracle	3.0	Degree A			BIOL 1	General Biology	4.0	Associate in Arts degree in Liberal
CISD 31L	Database Management - Oracle	0.5		sis in Kinesiology and Wellness pr	ovides the	BIOL 5	Contemporary Health Issues	3.0	Arts and Sciences
	Laboratory			ith an understanding of kinesiolog			<u>or</u>		Emphasis in Language Arts
Operatin	g Systems and Networking			, and the mechanics of human bo		BIOL 13	Human Repro Devel Aging	3.0	Degree A8987
(3.0-3.5 u			•	t. In addition to the foundational _I	•	NF 10	Nutrition for Personal Health	3.0	An emphasis in Language Arts provides the student
CISN 11		3.0		and movement courses, students			and Wellness		with an understanding of the acquisition of language
CISN 11L	Telecommunications/Networking Lab	0.5		om a scientific and nutrition and b			<u>or</u>		with a focus on reading, writing, listening, and speak-
	<u>or</u>			ent and diversity cluster.	Cilaviolai	NF 25	Essentials of Nutrition	3.0	ing with a diverse environment. In addition to the
CISN 21	Windows Operating System	3.0	Required	•			<u>or</u>		foundational language acquisition courses, students
	<u>or</u>			gy, Movement, and Health Pro	omotion	NF 25H	Essentials of Nutrition - Honors	3.0	select personal options that will strengthen their
CISN 31		3.0		um of 6 units selected from th			al Development and Diversity		individual interest and goals within Language Arts.
CISN 31L	Linux Operating System Laboratory	0.5		uiii oi o uiiits seiecteu iroiii ti	ie ioliow-	(A minimu	ım of 3 units selected from the follo	wing):	Required Courses:
	<u>or</u>		ing): KIN 3	First Aid and CPR	2.0	PSYC 1A	Introduction to Psychology	3.0	_ ·
CISN 61	5,	3.0	C NIIA		3.0		<u>or</u>		Language Acquisition (minimum of 9 Units selected from the following):
•	(3.0-4.0 units)		KIN 5	<u>or</u> Advanced First Aid/CPR/	3.0	PSYC 1AH	Introduction to Psychology - Honors	3.0	CHLD 51 Early Literacy in Child Development 3.0
CISS 13	Principles of Information Systems	4.0	CIII	Emergency Response	3.0	PSYC 3	Research Methods/Psych	4.0	, ,
	Security		KIN 13	Sports Officiating	3.0	PSYC 17	Introduction to Human Services	3.0	
	<u>or</u>		KIN 13 KIN 17	Introduction to Physical Educati		PSYC 26	Psychology of Sexuality	3.0	<u>or</u> ENGL 1CH Critical Thinking and Writing - Honors 4.0
CISS 15	Operating Systems Security	3.0	KIN 17 KIN 19	Introduction to Care/Prevention		PSYC 33	Psychology for Effective Living	3.0	or
	<u>or</u>		MIN 12	of Activity/Sports -Related Injur		SOC 1	Sociology	3.0	PHIL 9 Critical Analysis and Writing 3.0
				or veriarity, shorts - vergred Hillar	IC3				Time > Chacat Analysis and wilding 5.0

CHEM 50H General Chemistry I - Honors

General Chemistry II

Engineering Physics

Engineering Physics

PHYS 4C Engineering Physics

5.0

5.0

5.0

5.0

5.0

ENGL 81 Language Acquisition				1		
SIGN 210 American Sign Language Structure student Achievement and Fundamentals of Learning submit and Fundamentals of Learning and Fundamentals of Learning submit and Fundamentals submit and Fundamentals submit submi	ENGL 81	Language Acquisition	3.0	LATN 1	Elementary Latin	4.0
STDY 100 Student Achievement and Fundamentals of Learning and Fundamentals of Learning and Fundamentals of Learning and Fundamentals of Learning SIGM 102 SIGM 102 American Sign Language 1 4.0 SIGM 102 American Sign Language 2 4.0 SIGM 103 American Sign Language 3 4.0 SIGM 103 American Sign Language 3 4.0 SIGM 103 American Sign Language 4 4.0 SIGM 103 American Sign Language 4 4.0 SIGM 103 American Sign Language 5 4.0 SIGM 103 American Sign Language 1 4.0 SIGM 103 American Sign Languag	READ 100	Analysis and Critical Reading	3.0	LATN 2	Continuing Elementary Latin	4.0
Language Arts and Diversity (minimum 6 units selected from the following): SPAN 1 Elementary Spanish 4.0 SPAN 2 Continuing Intermediate Spanish 4.0 SPAN 3 Intermediate Spanish 5 yeaking SPAN 1 Spanish for the Spanish 5 yeaking SPAN 1 Continuing Intermediate Spanish 4.0 SPAN 2 Continuing Spanish for the Spanish 5 yeaking SPAN 3 Continuing Spanish for the Spanish 4.0 SPAN 4 Continuing Spanish for the Spanish 4.0 SPAN 5 Continuing Spanish for the Spanish 4.0 SPAN 5 Continuing Spanish for the Spanish 4.0 SPAN 6 Continuing Spanish Spanish 8 d.0 SPAN 7 Spaking SPAN 8 Continuing Spanish for the Spanish 4.0 SPAN 8 Spaking SPAN 9 Continuing Spanish Spanish 9 d.0 SPAN 10 Continuing Spanish for the Spanish 9 d.0 SPAN 10 Spaking SPAN 10 Spanish for the Spanish 9 d.0 SPAN 10 Spaking SPAN 10 Spanish for the Spanish 9 d.0 SPAN 10 Spaking SPAN 10 Spanish for the Spanish 9 d.0 SPAN 10 Spaking SPAN 10 Spanish for the Spanish 9 d.0 SPAN 10 Spanish	SIGN 210	American Sign Language Structure	3.0	ARAB 1	Elementary Arabic	4.0
Language Arts and DiversitySIGN 102American Sign Language 24.0(minimum 6 units selected from the following: SPAN 1Elementary Spanish of Uniting Elementary Spanish4.0SIGN 103American Sign Language 34.0SPAN 2Continuing Elementary Spanish4.0SIGN 103American Sign Language 44.0SPAN 3Intermediate Spanish of the Spanish Speaking4.0LIT 3Multicultural American Literature3.0SPAN 10Continuing Spanish for the Spanish Speaking4.0LIT 11MWorld Literature to 16503.0SPAN 53Conversational Spanish3.0LIT 20African American Literature3.0SPAN 54Continuing Gonversational Spanish3.0LIT 25Contemporary Mexican American3.0FRCH 2Continuing Elementary French4.0CHLD 50Multicultural Education:3.0FRCH 3Intermediate French4.0JOUR 100Introduction to Mass Media3.0FRCH 4Continuing Intermediate French4.0JOUR 100Introduction to Electronic Media3.0FRCH 54Continuing Advanced French4.0Personal OptionsFRCH 65Continuing Intermediate3.0Personal OptionsFRCH 67Continuing Intermediate4.0R-TV 01Introduction to Electronic Media3.0TRAL 1Elementary Italian4.0ENGL 18English - Introduction3.0TRAL 2Continuing Intermediate Italian4.0ENGL 18English - Introduction3.0 <td< td=""><td>STDY 100</td><td>Student Achievement</td><td>3.0</td><td>ARAB 2</td><td>Continuing Elementary Arabic</td><td>4.0</td></td<>	STDY 100	Student Achievement	3.0	ARAB 2	Continuing Elementary Arabic	4.0
(Iminimum 6 units selected from the following): SIGN 103 American Sign Language 3 4.0 SPAN 1 Elementary Spanish 4.0 SIGN 105 American Sign Language 4 4.0 SPAN 2 Continuing Elementary Spanish 4.0 LIT 3 Multicultural American Literature 3.0 SPAN 3 Intermediate Spanish Speaking 4.0 LIT 11A World Literature to 1650 3.0 SPAN 12 Continuing Spanish for the Spanish Speaking 4.0 LIT 11B World Literature from 1650 3.0 SPAN 53 Conversational Spanish 3.0 LIT 25 Contemporary Mexican American Literature 3.0 SPAN 54 Continuing Conversational Spanish 3.0 LIT 25 Contemporary Mexican American Literature 3.0 FRCH 1 Elementary French 4.0 LIT 25 Contemporary Mexican American Literature 3.0 FRCH 2 Continuing Intermediate French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 3 Intermediate French 4.0 JOUR 100 Introduction to Electronic Media 3.0 <		and Fundamentals of Learning		SIGN 101	American Sign Language 1	4.0
SPAN 1Elementary Spanish4.0SIGN 104American Sign Language 44.0SPAN 2Continuing Elementary Spanish4.0SIGN 105American Sign Language 54.0SPAN 3Intermediate Spanish or the Spanish Speaking4.0LIT 3Multicultural American Literature3.0SPAN 11Spanish for the Spanish Speaking4.0LIT 11AWorld Literature to 16503.0SPAN 53Continuing Spanish for the Spanish Speaking4.0LIT 11BWorld Literature from 16503.0SPAN 54Continuing Conversational Spanish3.0LIT 20African American Literature3.0FRCH 1Elementary French4.0CHLD 50Multicultural Education:3.0FRCH 2Continuing Elementary French4.0LID 20Multicultural Education:3.0FRCH 3Intermediate French4.0JOUR 100Introduction to Mass Media3.0FRCH 4Continuing Intermediate French4.0JOUR 107Race, Culture, Sex, and Mass Media Images3.0FRCH 53Intermediate Conversational French4.0R-TV 01Introduction to Electronic Media3.0FRCH 54Continuing Intermediate3.0Personal OptionsGONI FRCH 54Continuing Intermediate4.0Personal OptionsGONI FRCH 54Continuing Intermediate4.0ENGL 18English - Introduction to Electronic Media3.0GTAL 52Conversational Italian4.0ENGL 18English - Introduction to Literary Types - Honors3.0	Language	Arts and Diversity		SIGN 102	American Sign Language 2	4.0
SPAN 2Continuing Elementary Spanish4.0SIGN 105American Sign Language 54.0SPAN 3Intermediate Spanish4.0LIT 3Multicultural American Literature3.0SPAN 4Continuing Intermediate Spanish4.0LIT 11AWorld Literature to 16503.0SPAN 12Spanish for the Spanish Speaking4.0LIT 11BWorld Literature to 16503.0SPAN 53Conversational Spanish3.0LIT 20African American Literature3.0SPAN 54Continuing Conversational Spanish3.0LIT 25Contemporary Mexican American3.0FRCH 1Elementary French4.0LIT 25Contemporary Mexican American3.0FRCH 2Continuing Elementary French4.0Multicultural Education:3.0FRCH 3Intermediate French4.0JOUR 100Introduction to Mass Media3.0FRCH 4Continuing Intermediate French4.0JOUR 100Introduction to Mass Media3.0FRCH 53Intermediate Conversational French4.0R-TV 01Introduction to Electronic Media3.0FRCH 54Continuing Elementary Italian4.0CHID 61Language Arts and Art Media3.0ITAL 1Elementary Italian4.0ENGL 1BEnglish - Introduction to Literary Types 3.0ITAL 3Intermediate Italian4.0ENGL 8BEnglish - Introduction to Literary Types - HonorsITAL 4Continuing Elementary German4.0ENGL 8BCreative Writing - Novel3.0GERM	(minimum 6 units selected from the following):			SIGN 103	American Sign Language 3	4.0
SPAN 3Intermediate Spanish4.0LIT 3Multicultural American Literature3.0SPAN 4Continuing Intermediate Spanish4.0LIT 11AWorld Literature to 16503.0SPAN 11Spanish for the Spanish Speaking4.0UT 11BWorld Literature to 16503.0SPAN 12Continuing Spanish for the Spanish Speaking4.0LIT 20African American Literature3.0SPAN 53Conversational Spanish3.0LIT 20African American Literature3.0SPAN 54Continuing Conversational Spanish3.0LIT 25Contemporary Mexican American3.0SPAN 54Continuing Elementary French4.0LIT 20Multicultural Education:3.0FRCH 2Continuing Elementary French4.0JOUR 100Introduction to Mass Media3.0FRCH 3Intermediate French4.0JOUR 100Introduction to Mass Media Images3.0FRCH 4Continuing Intermediate French4.0R-TV 01Introduction to Electronic Media3.0FRCH 53Intermediate Conversational French4.0Personal OptionsIntroduction to Electronic Media3.0FRCH 54Continuing Intermediate3.0Personal Options3.0ITAL 1Elementary Italian4.0ENGL 1BEnglish - Introduction to Electronic Media3.0ITAL 2Continuing Elementary Italian4.0ENGL 1BEnglish - Introduction to Literary Types3.0ITAL 54Advanced Conversational Italian4.0ENGL 8BCrea	SPAN 1	Elementary Spanish	4.0	SIGN 104	American Sign Language 4	4.0
SPAN 4 Continuing Intermediate Spanish or the Spanish Speaking 4.0 LIT 11A World Literature to 1650 3.0 SPAN 12 Continuing Spanish for the Spanish Speaking 4.0 LIT 20 African American Literature 3.0 SPAN 33 Conversational Spanish 3.0 LIT 25 Contemporary Mexican American 3.0 SPAN 54 Continuing Conversational Spanish 3.0 Literature 3.0 FRCH 1 Elementary French 4.0 CHLD 50 Multicultural Education: 3.0 FRCH 2 Continuing Elementary French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 3 Intermediate French 4.0 JOUR 107 Race, Culture, Sex, and Mass Media Images 3.0 FRCH 4 Continuing Intermediate French 4.0 R-TV 01 Introduction to Electronic Media 3.0 FRCH 5 Advanced French 4.0 R-TV 01 Introduction to Electronic Media 3.0 FRCH 5 Continuing Intermediate 3.0 Gentral Elementary Italian 4.0 CHLD 61 Language Arts and Art Media 3.0 ITAL 5 Continuing Elementary Italian 4.0	SPAN 2	Continuing Elementary Spanish	4.0	SIGN 105	American Sign Language 5	4.0
SPAN 11 Spanish for the Spanish Speaking SPAN 12 Continuing Spanish for the Spanish Speaking SPAN 32 Conversational Spanish SPAN 53 Conversational Spanish SPAN 54 Continuing Conversational Spanish SPAN 54 Continuing Elementary French Elementary French SPAN 54 Continuing Intermediate French SPAN 54 Continuing Mayanced French SPAN 55 Continuing Intermediate SPAN 56 Continuing Intermediate SPAN 57 Continuing Intermediate SPAN 58 Continuing Intermediate SPAN 59 Conversational French SPAN 59 Conversational French SPAN 50 Continuing Elementary Italian SPAN 50 SPAN 54 Continuing Intermediate Italian SPAN 50 SPAN 54 S	SPAN 3	Intermediate Spanish	4.0	LIT 3	Multicultural American Literature	3.0
SPAN 52 Continuing Spanish for the Spanish Speaking SPAN 53 Conversational Spanish SPAN 54 Continuing Conversational Spanish SPAN 54 Continuing Elementary French SPAN 54 Continuing Intermediate French SPAN 54 Continuing Intermediate French SPAN 54 Continuing Advanced French SPAN 54 Continuing Intermediate SPAN 54 Continuing Intermediate SPAN 54 Continuing Intermediate SPAN 55 SPAN	SPAN 4	Continuing Intermediate Spanish	4.0	LIT 11A	World Literature to 1650	3.0
Speaking Conversational Spanish 3.0 LIT 20 African American Literature 3.0 SPAN 53 Conversational Spanish 3.0 Literature 3.0 Literature 3.0 Elementary French 4.0 CHLD 50 Multicultural Education: 3.0 Anti-Bias Perspective Atomining Intermediate French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 4 Continuing Intermediate French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 4 Continuing Advanced French 4.0 JOUR 100 Introduction to Electronic Media 3.0 FRCH 53 Intermediate Conversational French 4.0 Introduction to Electronic Media 3.0 FRCH 54 Continuing Intermediate Conversational French 3.0 FRCH 54 Continuing Intermediate Conversational French 4.0 Continuing Elementary Italian 4.0 Continuing Elementary Italian 4.0 Continuing Elementary Italian 4.0 Continuing Intermediate Italian 4.0 EMGL 1B English - Introduction to Literary Types 3.0 ITAL 1 Intermediate Italian 4.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 52 Conversational Italian 3.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 54 Advanced Conversational Italian 3.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 54 Continuing Conversational Italian 3.0 ENGL 8B Creative Writing - Fiction 3.0 GERM 1 Elementary German 4.0 ENGL 8B Creative Writing - Foetry 3.0 GERM 2 Continuing Elementary German 4.0 ENGL 8B Creative Writing - Poetry Collection 3.0 GERM 1 Elementary German 4.0 ENGL 8B Creative Writing - Poetry Collection 3.0 CHIN 1 Elementary Chinese 4.0 ENGL 8C Creative Writing - Novel 3.0 ENGL 8C Creative Wri	SPAN 11	Spanish for the Spanish Speaking	4.0		<u>or</u>	
Speaking Conversational Spanish 3.0 LIT 20 African American Literature 3.0 SPAN 53 Conversational Spanish 3.0 Literature 3.0 Literature 3.0 Elementary French 4.0 CHLD 50 Multicultural Education: 3.0 Anti-Bias Perspective Atomining Intermediate French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 4 Continuing Intermediate French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 4 Continuing Advanced French 4.0 JOUR 100 Introduction to Electronic Media 3.0 FRCH 53 Intermediate Conversational French 4.0 Introduction to Electronic Media 3.0 FRCH 54 Continuing Intermediate Conversational French 3.0 FRCH 54 Continuing Intermediate Conversational French 4.0 Continuing Elementary Italian 4.0 Continuing Elementary Italian 4.0 Continuing Elementary Italian 4.0 Continuing Intermediate Italian 4.0 EMGL 1B English - Introduction to Literary Types 3.0 ITAL 1 Intermediate Italian 4.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 52 Conversational Italian 3.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 54 Advanced Conversational Italian 3.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 54 Continuing Conversational Italian 3.0 ENGL 8B Creative Writing - Fiction 3.0 GERM 1 Elementary German 4.0 ENGL 8B Creative Writing - Foetry 3.0 GERM 2 Continuing Elementary German 4.0 ENGL 8B Creative Writing - Poetry Collection 3.0 GERM 1 Elementary German 4.0 ENGL 8B Creative Writing - Poetry Collection 3.0 CHIN 1 Elementary Chinese 4.0 ENGL 8C Creative Writing - Novel 3.0 ENGL 8C Creative Wri	SPAN 12	Continuing Spanish for the Spanish	4.0	LIT 11B	World Literature from 1650	3.0
SPAN 53 Conversational Spanish 3.0 LIT 25 Contemporary Mexican American 3.0 SPAN 54 Continuing Conversational Spanish 3.0 Literature FRCH 1 Elementary French 4.0 CHLD 50 Multicultural Education: 3.0 Anti-Bias Perspective FRCH 2 Continuing Elementary French 4.0 JUNR 100 Introduction to Mass Media 3.0 JUNR 107 Race, Culture, Sex, 3.0 and Mass Media Images FRCH 4 Continuing Intermediate French 4.0 JUNR 107 Race, Culture, Sex, 3.0 and Mass Media Images FRCH 5 Advanced French 4.0 JUNR 107 Race, Culture, Sex, 3.0 Intermediate Conversational French 3.0 Personal Options FRCH 53 Intermediate Conversational French 3.0 Intermediate Conversational French 4.0 Continuing Intermediate 4.0 Continuing Elementary Italian 4.0 Continuing Elementary Italian 4.0 Elementary Italian 4.0 Continuing Intermediate Italian 4.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 2 Conversational Italian 3.0 ENGL 1B English - Introduction to Literary Types 3.0 ITAL 5 Conversational Italian 3.0 ENGL 1B English - Introduction to Literary Types 5.0 ITAL 5 Conversational Italian 3.0 ENGL 1B English - Introduction to Literary Types 5.0 ENGL 8B Creative Writing - Fiction 3.0 ENGL 8B Creative Writing - Fiction 3.0 ENGL 8B Creative Writing - Poetry 3.0 ENGL 8B Creative Writing - Poetry Collection 3.0 ENGL 8C Creative Writing - Nonfiction 3.0 ENG				LIT 20	African American Literature	3.0
SPAN 54Continuing Conversational Spanish3.0LiteratureFRCH 1Elementary French4.0CHLD 50Multicultural Education:3.0FRCH 2Continuing Elementary French4.0JOUR 100Introduction to Mass Media3.0FRCH 3Intermediate French4.0JOUR 107Race, Culture, Sex,3.0FRCH 4Continuing Intermediate French4.0JOUR 107Race, Culture, Sex,3.0FRCH 5Advanced French4.0R-TV 01Introduction to Electronic Media3.0FRCH 53Intermediate Conversational French3.0Personal OptionsIntroduction to Electronic Media3.0FRCH 54Continuing Intermediate3.0Personal OptionsMinimum 3 units selected from the following):FRCH 55Conversational French4.0CHLD 61Language Arts and Art Media3.0ITAL 1Elementary Italian4.0CHLD 61Language Arts and Art Media3.0ITAL 2Continuing Elementary Italian4.0ENGL 18English - Introduction to Literary Types3.0ITAL 4Continuing Intermediate Italian3.0ENGL 18English - Introduction to Literary Types3.0ITAL 52Conversational Italian3.0ENGL 8Creative Writing - Fiction3.0ITAL 54Advanced Conversational Italian3.0ENGL 8BCreative Writing - Poetry3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Poetry Collection3.0GERM 2Con	SPAN 53	Conversational Spanish	3.0	LIT 25	Contemporary Mexican American	3.0
FRCH 1 Elementary French 4.0 CHLD 50 Multicultural Education: 3.0 FRCH 2 Continuing Elementary French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 4 Continuing Intermediate French 4.0 JOUR 107 Race, Culture, Sex, and Mass Media Images FRCH 5 Advanced French 4.0 R-TV 01 Introduction to Electronic Media 3.0 FRCH 53 Intermediate Conversational French Continuing Intermediate Conversational French 54 Continuing Intermediate 69 Conversational French 60 Continuing Elementary Italian 60 Continuing Elementary Italian 70 Continuing Elementary Italian 71 Continuing Intermediate Italian 71 Continuing Intermediate Italian 72 Continuing Intermediate Italian 73 Continuing Conversational Italian 74 Continuing Conversational Italian 75 Continuing Conversational Italian 75 Continuing Elementary German 75 Continuing Elementary Chinese 75 Continuing Elementary Chines	SPAN 54		3.0		- · · · · · · · · · · · · · · · · · · ·	
FRCH 2 Continuing Elementary French FRCH 3 Intermediate French FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 7 Continuing Intermediate FRCH 8 Continuing Intermediate FRCH 9 Continuing Intermediate FRCH 9 Continuing Intermediate FRCH 9 Continuing Intermediate Conversational French FRCH 9 Continuing Intermediate Conversational French FRCH 1 Elementary Italian FRCH 1 Elementary Italian FRCH 2 Continuing Intermediate Italian FRCH 1 Intermediate Italian FRCH 9 Conversational Italian FRCH 9 From 1 Elementary German FRCH 9 From 1 Elementary Chinese FRCH 1 Elementary Chinese FRCH 9 From 1 Elementary Chinese FRCH 9 From 1 Elementary Chinese FRCH 9 From 1 Elementary Italian FRCH 9 From 1 Elementary Chinese FRCH 9 From 1 Elementary Chinese FRCH 9 From 1 Elementary Chinese FRCH 9 From 1 Elementary Italian FRCH 1 Elementary Italian FRCH 1 Elementary Chinese FRCH 1 Elementary Italian FRCH 1 Elementary Italian FRCH 1 Elementary Italian FRCH 1 Elementary Italian FRCH 1 Elem	FRCH 1			CHLD 50	Multicultural Education:	3.0
FRCH 3 Intermediate French 4.0 JOUR 100 Introduction to Mass Media 3.0 FRCH 4 Continuing Intermediate French 4.0 JOUR 107 Race, Culture, Sex, 3.0 FRCH 5 Advanced French 4.0 R-TV 01 Introduction to Electronic Media 3.0 FRCH 53 Intermediate Conversational French 5 Continuing Intermediate 6 Conversational French 6 Continuing Intermediate 6 Conversational French 7 Conversational French 7 Continuing Intermediate 7 Conversational French 8 Continuing Elementary Italian 9 Continuing Elementary Italian 9 Continuing Intermediate Italian 9 Continuing Conversational Italian 9 Continuing Conversational Italian 9 Continuing Elementary German 9 Continuing Elementary German 9 Continuing Elementary German 9 Continuing Elementary Chinese 9 Continuing Elementary Chinese 9 Continuing Elementary Chinese 9 Continuing Elementary Japanese 9 Continuing Elementary Ja	FRCH 2	•	4.0		Anti-Bias Perspective	
FRCH 5 Advanced French 4.0 R-TV 01 Introduction to Electronic Media 3.0 FRCH 53 Intermediate Conversational French 3.0 FRCH 54 Continuing Intermediate 3.0 Conversational French 55 Conversational French 56 Conversational French 57 Continuing Elementary Italian 57 Continuing Elementary Italian 58 Conversational Italian 59 Conversational Italian 59 ENGL 18 English - Introduction to Literary Types 3.0 ITAL 59 Conversational Italian 50 ENGL 18 English - Introduction to Literary Types 3.0 ITAL 50 Conversational Italian 50 ENGL 18 English - Introduction to Literary Types 3.0 ITAL 54 Advanced Conversational Italian 3.0 ENGL 18 English - Introduction 3.0 ENGL 80 Creative Writing - Fiction 3.0 ENGL 80 Creative Writing - Poetry 3.0 ENGL 80 ENGL 80 Creative Writing - Poetry 3.0 ENGL 80 ENGL		,		JOUR 100	•	3.0
FRCH 5 Advanced French 4.0 R-TV 01 Introduction to Electronic Media 3.0 FRCH 53 Intermediate Conversational French 3.0 FRCH 54 Continuing Intermediate 3.0 Conversational French 55 Conversational French 56 Conversational French 57 Continuing Elementary Italian 57 Continuing Elementary Italian 58 Conversational Italian 59 Conversational Italian 59 ENGL 18 English - Introduction to Literary Types 3.0 ITAL 59 Conversational Italian 50 ENGL 18 English - Introduction to Literary Types 3.0 ITAL 50 Conversational Italian 50 ENGL 18 English - Introduction to Literary Types 3.0 ITAL 54 Advanced Conversational Italian 3.0 ENGL 18 English - Introduction 3.0 ENGL 80 Creative Writing - Fiction 3.0 ENGL 80 Creative Writing - Poetry 3.0 ENGL 80 ENGL 80 Creative Writing - Poetry 3.0 ENGL 80 ENGL	FRCH 4	Continuing Intermediate French	4.0	JOUR 107	Race, Culture, Sex,	3.0
FRCH 6 Continuing Advanced French FRCH 53 Intermediate Conversational French FRCH 54 Continuing Intermediate Conversational French TTAL 1 Elementary Italian TTAL 2 Continuing Elementary Italian TTAL 3 Intermediate Italian TTAL 4 Continuing Intermediate Italian TTAL 5 Conversational Italian TTAL 5 Conversational Italian TTAL 6 Conversational Italian TTAL 7 Conversational Italian TTAL 8 Conversational Italian TTAL 8 Conversational Italian TTAL 9 Conversational Italian TTAL 9 Conversational Italian TTAL 1 Continuing Conversational Italian TTAL 5 Conversational Italian TTAL		_				
FRCH 53 Intermediate Conversational French FRCH 54 Continuing Intermediate Conversational French ITAL 1 Elementary Italian ITAL 2 Continuing Elementary Italian ITAL 3 Intermediate Italian ITAL 4 Continuing Intermediate Italian ITAL 52 Conversational Italian ITAL 53 Continuing Conversational Italian ITAL 54 Advanced Conversational Italian ITAL 55 Continuing Elementary German ITAL 56 Continuing Elementary German ITAL 66 ENGL 8B Creative Writing - Poetry ITAL 7 Continuing Elementary German ITAL 8 Elementary German ITAL 9 Continuing Elementary Chinese ITAL 9 Continuing Elementary Japanese I		Continuing Advanced French		R-TV 01	3	3.0
FRCH 54 Continuing Intermediate Conversational French ITAL 1 Elementary Italian ITAL 2 Continuing Elementary Italian ITAL 3 Intermediate Italian ITAL 4 Continuing Intermediate Italian ITAL 52 Conversational Italian ITAL 53 Continuing Conversational Italian ITAL 54 Advanced Conversational Italian ITAL 54 Elementary German GERM 1 Elementary German GERM 2 Continuing Elementary German GERM 3 Intermediate German GERM 3 Intermediate German CHIN 1 Elementary Chinese CHIN 2 Continuing Elementary Chinese CHIN 3 Intermediate Chinese A.0 ENGL 8F Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8B Creative Writing - Poetry Creative Writing - Poetry Creative Writing - Poetry Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8B Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8B Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8B Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8B Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8B Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8B Creative Writing - Poetry Continuing Elementary Chinese A.0 ENGL 8F Creative Writing - Nonfiction A.0 CHIN 3 Intermediate Chinese A.0 ENGL 8F Creative Writing - Nonfiction A.0 CHIN 4 Continuing Intermediate Chinese A.0 ENGL 8F Creative Writing - Nonfiction A.0 CHIN 1 Elementary Japanese A.0 JOUR 101 Beginning Newswriting A.0 JAPN 2 Continuing Elementary Japanese A.0 JOUR 102 Intermediate Newswriting A.0 JAPN 3 Intermediate Japanese A.0 JOUR 108 Writing for Public Relations A.0 LIT 1 Early American Literature A.0 LIT 1 Early American Literature		_			Options	
Conversational French ITAL 1 Elementary Italian ITAL 2 Continuing Elementary Italian ITAL 3 Intermediate Italian ITAL 4 Continuing Intermediate Italian ITAL 52 Conversational Italian ITAL 53 Continuing Conversational Italian ITAL 54 Advanced Conversational Italian ITAL 54 Continuing Elementary German GERM 1 Elementary German GERM 2 Continuing Elementary German GERM 3 Intermediate German GERM 3 Intermediate German HOBERM 4.0 ENGL 8C Creative Writing - Poetry Source Writing - Poetry Source Writing - Poetry Source Writing - Poetry Continuing Elementary German HOBERM 5 Creative Writing - Poetry HOBERM 6 Creative Writing - Poetry HOBERM 7 Creative Writing - Poetry HOBERM 8 Creative Writing - Poetry HOBERM 9 Creative Writing - Poetry Collection HOBERM 9 Creative Writing - Nonfiction HOBERM 9 H		Continuing Intermediate			-	ina):
ITAL 1Elementary Italian4.0CHLD 61Language Arts and Art Media for Young ChildrenITAL 2Continuing Elementary Italian4.0ENGL 1BEnglish - Introduction to Literary Types3.0ITAL 3Intermediate Italian4.0ENGL 1BEnglish - Introduction to Literary Types3.0ITAL 52Conversational Italian3.0ENGL 1BHEnglish - Introduction to Literary Types - HonorsITAL 53Continuing Conversational Italian3.0ENGL 8ACreative Writing - Fiction3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Poetry3.0GERM 2Continuing Elementary German4.0ENGL 8CCreative Writing - Novel3.0GERM 3Intermediate German4.0ENGL 8DCreative Writing - Poetry Collection3.0CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 2Continuing Elementary Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 3Intermediate Japanese4.0LIT 1Early American Literature3.0<		_		_		-
ITAL 2Continuing Elementary Italian4.0For Young ChildrenITAL 3Intermediate Italian4.0ENGL 1BEnglish - Introduction to Literary Types3.0ITAL 4Continuing Intermediate Italian4.0ororITAL 52Conversational Italian3.0ENGL 1BHEnglish - Introduction3.0ITAL 53Continuing Conversational Italian3.0ENGL 8ACreative Writing - Fiction3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Poetry3.0GERM 2Continuing Elementary German4.0ENGL 8CCreative Writing - Novel3.0GERM 3Intermediate German4.0ENGL 8DCreative Writing - Poetry Collection3.0CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0	ITAL 1	Elementary Italian	4.0			
ITAL 3Intermediate Italian4.0ENGL 1BEnglish - Introduction to Literary Types3.0ITAL 4Continuing Intermediate Italian4.0orITAL 52Conversational Italian3.0ENGL 1BHEnglish - Introduction3.0ITAL 53Continuing Conversational Italian3.0ENGL 8ACreative Writing - Fiction3.0ITAL 54Advanced Conversational Italian3.0ENGL 8BCreative Writing - Poetry3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Novel3.0GERM 2Continuing Elementary German4.0ENGL 8DCreative Writing - Novel3.0GERM 3Intermediate German4.0ENGL 8BCreative Writing - Poetry Collection3.0CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0			4.0			
ITAL 4Continuing Intermediate Italian4.0orITAL 52Conversational Italian3.0ENGL 1BHEnglish - Introduction3.0ITAL 53Continuing Conversational Italian3.0to Literary Types - HonorsITAL 54Advanced Conversational Italian3.0ENGL 8ACreative Writing - Fiction3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Poetry3.0GERM 2Continuing Elementary German4.0ENGL 8CCreative Writing - Novel3.0GERM 3Intermediate German4.0ENGL 8BCreative Writing - Poetry Collection3.0CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0	ITAL 3			ENGL 1B		3.0
ITAL 52Conversational Italian3.0ENGL 1BHEnglish - Introduction3.0ITAL 53Continuing Conversational Italian3.0to Literary Types - HonorsITAL 54Advanced Conversational Italian3.0ENGL 8ACreative Writing - Fiction3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Poetry3.0GERM 2Continuing Elementary German4.0ENGL 8CCreative Writing - Novel3.0GERM 3Intermediate German4.0ENGL 8DCreative Writing - Poetry Collection3.0CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 2Continuing Elementary Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 3Intermediate Japanese4.0LIT 1Early American Literature3.0		Continuing Intermediate Italian				
ITAL 53Continuing Conversational Italian3.0to Literary Types - HonorsITAL 54Advanced Conversational Italian3.0ENGL 8ACreative Writing - Fiction3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Poetry3.0GERM 2Continuing Elementary German4.0ENGL 8CCreative Writing - Novel3.0GERM 3Intermediate German4.0ENGL 8DCreative Writing - Poetry Collection3.0CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 2Continuing Elementary Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 3Intermediate Japanese4.0LIT 1Early American Literature3.0		_		FNGI 1BH		3.0
ITAL 54Advanced Conversational Italian3.0ENGL 8ACreative Writing - Fiction3.0GERM 1Elementary German4.0ENGL 8BCreative Writing - Poetry3.0GERM 2Continuing Elementary German4.0ENGL 8CCreative Writing - Novel3.0GERM 3Intermediate German4.0ENGL 8DCreative Writing - Poetry Collection3.0CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 2Continuing Elementary Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 3Intermediate Japanese4.0LIT 1Early American Literature3.0					-	3.0
GERM 1 Elementary German 4.0 ENGL 8B Creative Writing - Poetry 3.0 GERM 2 Continuing Elementary German 4.0 ENGL 8C Creative Writing - Novel 3.0 GERM 3 Intermediate German 4.0 ENGL 8D Creative Writing - Poetry Collection 3.0 CHIN 1 Elementary Chinese 4.0 ENGL 8E Creative Writing - Memoir 3.0 CHIN 2 Continuing Elementary Chinese 4.0 ENGL 8F Creative Writing - Nonfiction 3.0 CHIN 3 Intermediate Chinese 4.0 ENGL 9 Writing the Personal Journal 3.0 CHIN 4 Continuing Intermediate Chinese 4.0 JOUR 101 Beginning Newswriting 3.0 JAPN 1 Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 2 Continuing Elementary Japanese 4.0 JOUR 108 Writing for Public Relations 3.0 JAPN 3 Intermediate Japanese 4.0 LIT 1 Early American Literature 3.0		_		FNGL 8A		3.0
GERM 2 Continuing Elementary German 4.0 ENGL 8C Creative Writing - Novel 3.0 CHIN 1 Elementary Chinese 4.0 ENGL 8E Creative Writing - Poetry Collection 3.0 CHIN 2 Continuing Elementary Chinese 4.0 ENGL 8F Creative Writing - Nonfiction 3.0 CHIN 3 Intermediate Chinese 4.0 ENGL 9 Writing the Personal Journal 3.0 CHIN 4 Continuing Intermediate Chinese 4.0 JOUR 101 Beginning Newswriting 3.0 JAPN 1 Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 2 Continuing Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 3 Intermediate Japanese 4.0 JOUR 108 Writing for Public Relations 3.0 JAPN 4 Continuing Intermediate Japanese 4.0 LIT 1 Early American Literature 3.0					2	
GERM 3 Intermediate German 4.0 ENGL 8D Creative Writing - Poetry Collection 3.0 CHIN 1 Elementary Chinese 4.0 ENGL 8E Creative Writing - Memoir 3.0 CHIN 2 Continuing Elementary Chinese 4.0 ENGL 8F Creative Writing - Nonfiction 3.0 CHIN 3 Intermediate Chinese 4.0 ENGL 9 Writing the Personal Journal 3.0 CHIN 4 Continuing Intermediate Chinese 4.0 JOUR 101 Beginning Newswriting 3.0 JAPN 1 Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 2 Continuing Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 3 Intermediate Japanese 4.0 JOUR 108 Writing for Public Relations 3.0 JAPN 4 Continuing Intermediate Japanese 4.0 LIT 1 Early American Literature 3.0					,	
CHIN 1Elementary Chinese4.0ENGL 8ECreative Writing - Memoir3.0CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0OrOrJAPN 2Continuing Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0					2	
CHIN 2Continuing Elementary Chinese4.0ENGL 8FCreative Writing - Nonfiction3.0CHIN 3Intermediate Chinese4.0ENGL 9Writing the Personal Journal3.0CHIN 4Continuing Intermediate Chinese4.0JOUR 101Beginning Newswriting3.0JAPN 1Elementary Japanese4.0orJAPN 2Continuing Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0						
CHIN 3 Intermediate Chinese 4.0 ENGL 9 Writing the Personal Journal 3.0 CHIN 4 Continuing Intermediate Chinese 4.0 JOUR 101 Beginning Newswriting 3.0 JAPN 1 Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 2 Continuing Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 3 Intermediate Japanese 4.0 JOUR 108 Writing for Public Relations 3.0 JAPN 4 Continuing Intermediate Japanese 4.0 LIT 1 Early American Literature 3.0					2	
CHIN 4 Continuing Intermediate Chinese 4.0 JOUR 101 Beginning Newswriting 3.0 JAPN 1 Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 2 Continuing Elementary Japanese 4.0 JOUR 102 Intermediate Newswriting 3.0 JAPN 3 Intermediate Japanese 4.0 JOUR 108 Writing for Public Relations 3.0 JAPN 4 Continuing Intermediate Japanese 4.0 LIT 1 Early American Literature 3.0		,				
JAPN 1Elementary Japanese4.0orJAPN 2Continuing Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0					•	
JAPN 2Continuing Elementary Japanese4.0JOUR 102Intermediate Newswriting3.0JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0		3		30011101		5.0
JAPN 3Intermediate Japanese4.0JOUR 108Writing for Public Relations3.0JAPN 4Continuing Intermediate Japanese4.0LIT 1Early American Literature3.0		, .		IOUR 102		3.0
JAPN 4 Continuing Intermediate Japanese 4.0 LIT 1 Early American Literature 3.0						
		·			•	
JAIN J Advanced Japanese 4.0 <u>VI</u>					•	٥.٠
	או וענ	navanicea Japanese	т.0		<u>vi</u>	

Modern American Literature	3.0 3.0
, -	3.0
Survey of English Literature	3.0
Children's Literature	3.0
Radio-TV Newswriting	3.0
Performance of Literature	3.0
Total Units	18.0
for Area of Emphasis	
	Survey of English Literature or Survey of English Literature Children's Literature Radio-TV Newswriting Performance of Literature Total Units

Associate in Arts Degree in Liberal Arts and Sciences

Emphasis in Mathematics Degree A8989

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

Required Courses:

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

,	
College Algebra	4.0
Calculus for Business	4.0
Trigonometry	3.0
Precalculus Mathematics	4.0
Calculus and Analytic Geometry	4.0
Calculus and Analytic Geometry	5.0
A Transition to Advanced Mathemati	cs 3.0
Calculus and Analytic Geometry	5.0
Lin Algebra & Diff Equtns	5.0
Fundamentals of Computer Science	3.5
C++ Language & Objects	4.0
Java Language and Object Oriented	4.0
Programming	
Total Units	18.0
for Area of Emphasis	
nded Electives:	
Survey of College Mathematics	3.0
Elementary Statistics	3.0
<u>or</u>	
l Elementary Statistics - Honors	3.0
Statway II	5.0
	Calculus for Business Trigonometry Precalculus Mathematics Calculus and Analytic Geometry Calculus and Analytic Geometry A Transition to Advanced Mathematic Calculus and Analytic Geometry Lin Algebra & Diff Equtns Fundamentals of Computer Science C++ Language & Objects Java Language and Object Oriented Programming Total Units for Area of Emphasis nded Electives: Survey of College Mathematics Elementary Statistics Or

3.0

5.0

MUS 48

MATH 120 Finite Mathematics

CHEM 50 General Chemistry I

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Music Degree A8990

CHEM 51

PHYS 4A

PHYS 4B

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.

Required Courses:

ı	quii.cu	40415451	
	MUS 2	Music Theory	3.0
	MUS 3A	Harmony - Diatonic	3.0
	MUS 5A	Musicianship - Ear Training	1.0
		and Sight Singing	
	MUS 5B	Musicianship - Diatonic	1.0
	MUS 11A	Music Literature Survey	3.0
	MUS 16	Individual Instruction	0.5
	MUS 22	Conducting	1.5
	Piano (2 u	inits selected from the following	
	courses):		
	MUS 17A	Elementary Piano	1.0
	MUS 17B	Intermediate Class Piano	1.0
l	MUS 18	Advanced Class Piano	1.0
ı			
		nce Ensemble (3 units selected fro	m
		nce Ensemble (3 units selected fro ving courses):	m
			m 1.5
	the follow	ving courses):	
	the follow MUS 27	ving courses): Chamber Music	1.5
	the follow MUS 27 MUS 30	ring courses): Chamber Music Collegiate Chorale	1.5 1.0
	MUS 27 MUS 30 MUS 31	ving courses): Chamber Music Collegiate Chorale Concert Choir	1.5 1.0 1.5
	the follow MUS 27 MUS 30 MUS 31 MUS 34	ving courses): Chamber Music Collegiate Chorale Concert Choir Women's Vocal Ensemble	1.5 1.0 1.5 2.0
	MUS 27 MUS 30 MUS 31 MUS 34 MUS 36	ving courses): Chamber Music Collegiate Chorale Concert Choir Women's Vocal Ensemble Wind Symphony	1.5 1.0 1.5 2.0 1.0
	MUS 27 MUS 30 MUS 31 MUS 34 MUS 36 MUS 38	ving courses): Chamber Music Collegiate Chorale Concert Choir Women's Vocal Ensemble Wind Symphony Ensemble	1.5 1.0 1.5 2.0 1.0 0.5
	MUS 27 MUS 30 MUS 31 MUS 34 MUS 36 MUS 38 MUS 39 MUS 44 MUS 45	ving courses): Chamber Music Collegiate Chorale Concert Choir Women's Vocal Ensemble Wind Symphony Ensemble Laboratory Band Vocal Jazz Ensemble Chamber Singers	1.5 1.0 1.5 2.0 1.0 0.5 2.0
	MUS 27 MUS 30 MUS 31 MUS 34 MUS 36 MUS 38 MUS 39 MUS 44	ving courses): Chamber Music Collegiate Chorale Concert Choir Women's Vocal Ensemble Wind Symphony Ensemble Laboratory Band Vocal Jazz Ensemble	1.5 1.0 1.5 2.0 1.0 0.5 2.0 3.0

Men's Vocal Ensemble

2.0

METO 3L

MICR 1

MICR 22

CHEM 50

CHEM 51

CHEM 60

CHEM 80

CHEM 81

GEOG 1

GEOG 1H

GEOG 1L

GEOL 1

GEOL 2

GFOL 8

GEOL 8H

GEOL 8L

OCEA 10

PHSC 7

PHSC 7L

PHYS 4A

PHYS 4B

PHYS 4C

ENGR 40

Weather and Atmospheric

Environment Laboratory

Principles of Microbiology

Microbiology

<u>or</u>

General Chemistry I

CHEM 50H General Chemistry I - Honors

General Chemistry II

Organic Chemistry

- Honors

Physical Geology

Historical Geology

Earth Science - Honors

Earth Science Laboratory

Introduction to Oceanography

OCEA 10H Introduction to Oceanography - Honors 3.0

Physical Science Laboratory

OCEA 10L Introduction to Oceanography

Physical Science

Engineering Physics

Engineering Physics

Engineering Physics

Laboratory

and

PHYS 2AG General Physics

PHYS 2BG General Physics

Statics

Earth Science

and

Organic Chemistry II

Quantitative Chemical Analysis

Elements of Physical Geography

Elements of Physical Geography

Physical Geography Laboratory

MUS 49	Wind Ensemble	2.0		
	Total Units 1	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 Technolo	gy 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 10 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		

	and		Associ	ate in Arts degree in	Liberal
	Environment				
METO 3	Weather and the Atmospheric	3.0		for Area of Emphasis	
	and Diversity			Total Units	18.0
BTNY 3	Plant Structures, Functions,	5.0	ENGR 41	Dynamics	3.0

5.0

5.0

5.0

5.0

5.0

5.0

5.0

3.0

3.0

1.0

4.0

4.0

3.0

3.0

1.0

3.0

1.0

3.0

1.0

4.0

4.0

5.0

5.0

5.0

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.

the historical and political implications on society.					
Required Courses:					
Foundation (minimum of 6-7 units from the					
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				
	<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				
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			
DOLL 411	<u>or</u>	2.0			
POLI 1H	Political Science - Honors	3.0			
PSYC 1A	Introduction to Psychology	3.0			
DCVC 1ALL	<u>Or</u>	2.0			
PSYC 1AH	Introduction to Psychology - Honors	3.0			
SOC 1	Sociology	3.0			
COC 111	<u>Or</u>	2 0			
SOC 1H	Sociology - Honors	3.0			

	PLUS one	of the following:	
	MATH 110	Elementary Statistics	3.0
		<u>or</u>	
MATH 110H Elementary Statistics - Honors		l Elementary Statistics - Honors	3.0
		<u>or</u>	
	PSYC 10	Statistics for the Behavioral Sciences	4 0

PSYC 10 Statistics for the Behavioral Sciences 4.0 Cultural & Gender Diversity (minimum of 3 units selected from the following):

ANTH 30	The Native American	3.0
ANITHE		
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
	<u>or</u>	
GEOG 30H	Geography of California - Honors	3.0
	•	3.0
JOUR 100	Introduction to Mass Media	3.0
JOUR 107	Race, Culture, Sex,	3.0
	3	
	Latino Politics in the United States	3.0
	African American Politics	3.0
		3.0
		3.0
		3.0
		3.0
SOC 14		3.0
	_	
	,	3.0
SOC 20	Sociology of Ethnic Relations	3.0
	<u>or</u>	
	3,	
SPCH 7		3.0
	<u>or</u>	
SPCH 7H	Intercultural Communication Honors	3.0
	BIOL 15 BIOL 15H GEOG 2 GEOG 2H GEOG 30 GEOG 30H HIST 36 JOUR 100	BIOL 15 Human Sexuality or BIOL 15H Human Sexuality - Honors GEOG 2 Human Geography or GEOG 2H Human Geography - Honors GEOG 5 World Regional Geography or GEOG 30 Geography of California or GEOG 30H Geography of California - Honors HIST 36 Women in American History JOUR 100 Introduction to Mass Media JOUR 107 Race, Culture, Sex, and Mass Media Images POLI 25 Latino Politics in the United States POLI 35 African American Politics PSYC 25 The Psychology of Women PSYC 26 Psychology of Sexuality R-TV 01 Introduction to Electronic Media SOC 5 Introduction to Criminology SOC 14 Marriage and the Family or SOC 14H Marriage and the Family - Honors SOC 20 Sociology of Ethnic Relations or SOC 20H SpCH 7 Intercultural Communication

	nent of the Person (minimum of 3			<u>or</u>	
units selected from the following):			HIST 31	History of the African American	3.0
BIOL 5	Contemporary Health Issues	3.0		<u>or</u>	
BIOL 13	Human Repro Devel Aging	3.0	HIST 35	History of Africa	3.0
CHLD 1	Child, Family, School and Community		HIST 40	History of the Mexican American	3.0
CHLD 10	Child Growth and Lifespan Development	3.0		<u>or</u>	
	<u>or</u>		HIST 44	History of Native Americans	3.0
CHLD 10H	Child Growth	3.0	POLI 9	Introduction to International Relations	3.0
	and Lifespan Development - Honors			<u>or</u>	
PSYC 14	Developmental Psychology	3.0	POLI 25	Latino Politics in the United States	3.0
PSYC 19	Abnormal Psychology	3.0		<u>or</u>	
SOC 2	Contemporary Social Problems	3.0	POLI 35	African American Politics	3.0
	<u>or</u>		PSYC 17	Introduction to Human Services	3.0
SOC 2H	Contemporary Social Problems - Honors	3.0		Total Units 18.0 - 1	19.0
SOC 4	Introduction to Gerontology	3.0		for Area of Emphasis	
SOC 15	Child Development	3.0	Other rec	ommended electives include:	
Biology a	s it Relates to Behavior or Society		ANTH 3	Archaeology	3.0
(minimur	n of 3 units selected from the follo	W-	BUSM 60	Human Relations in Business	3.0
ing):			CHLD 1	Child, Family, School and Community	3.0
ANTH 1	Biological Anthropology	3.0	CHLD 73	Infant/Toddler Care and Development	3.0
BIOL 6	Humans and the Environment	3.0	CHLD 85	Infants At Risk	3.0
BIOL 17	Neurobiology and Behavior	3.0	COUN 5	Career/Life Planning	3.0
BIOL 34	Fundamentals of Genetics	3.0	COUN 51	Career Planning	1.0
PSYC 1B	Biological Psychology	3.0	FCS 41	Life Management	3.0
	and Political Implications on Socie		LIBR 1	Information Resources	3.0
(minimun	n of 3 units selected from the follo	w-		and Research Methods	
ing):			LIT 3	Multicultural American Literature	3.0
GEOG 8	The Urban World	3.0	LIT 15	Introduction to Cinema	3.0
HIST 1	History of the United States	3.0	LIT 20	African American Literature	3.0
	<u>or</u>		LIT 25	Contemporary Mexican	3.0
HIST 7	History of the United States	3.0		American Literature	
	<u>or</u>		PSYC 3	Introduction to Research Methods	4.0
HIST 7H	History of the United States - Honors	3.0		in Psychology	
	<u>or</u>		PSYC 17	Introduction to Human Services	3.0
HIST 8	History of the United States	3.0	PSYC 19	Abnormal Psychology	3.0
	<u>or</u>		PSYC 33	Psychology for Effective Living	3.0
HIST 8H	History of the United States - Honors	3.0	SL 2	Linked Service Learning	1.0
HIST 10	History of Asia	3.0		<u>or</u>	
	<u>or</u>		SPCH 26	Interpersonal Communication	3.0
HIST 11	History of Asia	3.0		or .	
	<u>or</u>		SPCH 26H	Interpersonal Communication - Honors	3.0
HIST 16	The Wild West - A History, 1800-1890	3.0			
HIST 30	History of the African American 1619-1877	3.0			

ASSOCIATE DEGREE FOR TRANSFER (AA-T & AS-T)					
Associate in Arts for Transfer Degree (AA-T):					
Art History					
Communication Studies					
English	98	Psychology	100		
History		, ,,			
Associa	te in Science for	Transfer Degree (AS-T):			
Mathematics					
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					

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 guarantee admission to specific majors or campuses.

Required Courses:

Associate in Arts in Art History for Transfer

Humanities and Social Sciences Division 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.

Core Courses: (9 units)				
AHIS 4	History of Western Art:	3.0		
	Prehistoric Through Gothic			
	<u>or</u>			
AHIS 4H	History of Western Art:	3.0		
	Prehistoric Through Gothic - 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 - Honor	'S		
ARTD 15A	Drawing: Beginning	3.0		
List A sele	ct one: (3 units)			
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		
	and Architecture			
	<u>or</u>			
AHIS 12H	History of Precolumbian Art	3.0		
	and Architecture- Honors			
List B sele	ct one: (3 units)			
ARTB 14	Basic Studio Arts	3.0		

ARTD 17A	Drawing: Life	3.0
ARTD 20	Design: Two-Dimensional	3.0
ARTG 20	Art, Artists and Society	3.0
ARTS 22	Design: Three-Dimensional	3.0
ARTS 30A	Ceramics: Beginning I	3.0
ARTS 40A	Sculpture: Beginning	3.0
PHOT 10	Basic Digital and Film Photography	3.0
List C: sele	ect two courses from the followin	g or
	e not selected from List A: (6 units	
AHIS 3	History of Women and Gender in Art	
	or	
AHIS 3H	History of Women and Gender	3.0
	in Art - Honors	
AHIS 6	History of Modern Art	3.0
	or	
AHIS 6H	History of Modern Art - Honors	3.0
AHIS 8	History of Medieval Art	3.0
	and Architecture	
AHIS 10	A History of Greek and Roman Art	3.0
	and Architecture	
AHIS 14	Rome: The Ancient City	3.0
AHIS 15	The Culture and Art of Pompeii	3.0
	Total Units for Major	21.0
	CSU General Education 39.0 -	42.0
	or IGETC Pattern	
	Courses may be double-counted with	either
	CSU-GE or IGETC.	
	Degree Total	60.0

Associate in Arts in Communication Studies for Transfer

Humanities and Social Sciences Division 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

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 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:

SPCH 20

Core Courses: (4 Units)

SPCH TA	Public Speaking	4.0
	<u>or</u>	
SPCH 1AH	Public Speaking - Honors	4.0
List A: Sel	ect any 2 courses from the fo	llowing:
(6 units)		
SPCH 6	Group Communication	3.0

Argumentation and Debate

	<u>or</u>	
SPCH 20H	Argumentation and Debate - Honors	3.0
SPCH 26	Interpersonal Communication	3.0
	<u>or</u>	
SPCH 26H	Interpersonal Communication - Hono	rs3.0

List B: Select any 2 courses from the following or any 1 course not selected from List A (6-7 units)

SPCH 2	Fundamentals of Communication	4.0
SPCH 4	Performance of Literature	3.0
SPCH 7	Intercultural Communication	3.0
	<u>or</u>	
SPCH 7H	Intercultural Communication Honors	3.0

Limit of three (3) units from: JOUR 100 Introduction to Mass Media

JOUR 100	Introduction to Mass Media	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: Sele	ect at least 1 course from the follo	w-
ing or any	1 course not selected from List A o	or
List B (3-4		
ENGL 1C	Critical Thinking and Writing	4.0
	or	
ENGL 1CH	Critical Thinking and Writing - Honors	4.0
JOUR 101		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
	Total Units for Major	18.0
	CSU General Education 39.0 - 4	42.0
	or IGETC Pattern	
	Courses may be double-counted with e	ither
	CSU-GE or IGETC.	
	Degree Total	60.0

Associate in Arts in English for Transfer

Humanities and Social Sciences Division 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 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 units)

	Core Courses: (/ 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>			
		Critical Thinking and Writing - Honors	4.0		
	List A: Sel	ect two: (6 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		
		ect one course from the following			
	any course	e not selected from List A: (3 units)			
	ENGL 8A	Creative Writing Fiction	3.0		

Liet C. Calact and account from the fall accions an array			
ENGL 81	Language Acquisition	3.0	
ENGL 8F	Creative Writing Non-Fiction	3.0	
ENGL 8B	Creative Writing Poetry	3.0	
ENGL 8A	Creative Writing Fiction	3.0	

List C: Select one course from the following or any course not selected from List A or List B: (3 units)

3.0
3.0
3.0
3.0
3.0

LIT 15	Introduction to Cinema	3.0
LIT 25	Contemporary Mexican Amer	ican 3.0
	Literature	
LIT 36	Introduction to Mythology	3.0
LIT 40	Children's Literature	3.0
LIT 46	The Bible as Literature	3.0
	- Old Testament	
LIT 47	The Bible as Literature	3.0
	- New Testament	
	Total Units for Major	19.0
	CSU General Education	39.0 - 42.0
	or IGETC Pattern	
	Courses may be double-counte	ed with either
	CSU-GE or IGETC.	
	Degree Total	60.0

Associate in Arts in History for Transfer

Humanities and Social Sciences Division 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: (6 units) HIST 7 History of the United States to 1877 3.0, HIST 19 History of the United States to 1877 3.0, or HIST 8H History of the United States from 1865 3.0 or HIST 9 History of the United States from 1865 3.0 or HIST 3 Morld History: Prehistoric to Early Modern - Honors List A select two: (6 units) World History: Prehistoric to Early Modern - Honors World History: Prehistoric to Early Modern - Honors World History: Prehistoric to Early Modern - Honors List A select two: (6 units) HIST 4 World History: Prehistoric to Early Modern - Honors World History: Early Modern - Honors List B World History: Early Modern - Honors World History: Early Modern - Honors List B World History: Early Modern - Honors World History: Early Modern - Honors List B Belect one course from each group: (6-7 units) List B Belect one course from each group: (6-7 units) List B Select one course from each group: (6-7 units) HIST 4H World History: Early Modern - Lambour -
associate degree for transfer will not be required to complete any other local graduation requirements. Required Courses: GERM 1 Elementary German 4.0 AHIS 4 History of Western Art: 3.0 AHIS 4 History of Western Art: 3.0 AHIS 5 History of Western Art: 3.0 AHIS 5 History of Western Art: 3.0 AHIS 7 History of the United States to 1877 3.0 HIST 10 History of Premodern Asia HIST 10 History of Premodern Asia HIST 10 History of the United States to 1877 3.0 HIST 11 History of Modern Asia History of the United States from 1865 3.0 HIST 3 History of the United States from 1865 3.0 HIST 3 History of the United States from 1865 3.0 HIST 3 History of the United States from 1865 3.0 HIST 3 History of Mexican American 1865 3.0 HIST 3 History of the United States from 1865 3.0 HIST 3 History of Mexican American 1865 3.0 HIST 3 HIST 3 History of Mexican American 1865 3.0 HIST 3 HIST 3 History of Mexican American 1865 3.0 HIST 3
Required Courses: (6 units) HIST 7H History of the United States to 1877 3.0 HIST 19 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the African American 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the African American 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the African American 3.0 HIST 30 History of the United States from 1865 3.0 HIST 30 History of the Mexican American 3.0 AHIS 50 History of Modern Art 3
Required Courses: (6 units) HIST 7 History of the United States to 1877 3.0 GERM 2 Continuing Elementary German 4.0 History of Prehistoric Through Gothic - Honors HIST 19 History of the United States to 1877 3.0 HIST 19 History of the United States from 1865 3.0 and HIST 30 History of Mexico 3.0 HIST 19 History of the United States from 1865 3.0 and HIST 30 History of Mexico 3.0 HIST 30 H
Core Courses: (6 units) GERM 2 Continuing Elementary German 4.0 AHIS 5 History of Western Art: 3.0 Renaissance Through Modern Asia 3.0 Renaissance
HIST 74 HIST 75 HIST 76 HIST 77 HIST 78 HIST 78 HIST 78 HIST 78 HIST 78 HIST 79 HIST
HIST 7H History of the United States to 1877 or History of the United States to 1877 or History of the United States to 1877 or History of Medern Asia HIST 10 History of Medern Asia 3.0 AHIS 5H History of Western Art: 3.0 Renaissance Through Modern - Honors HIST 10 History of Mexico 3.0 AHIS 6H History of Western Art: 3.0 AHIS 6H History of Medern Art - MIST 19 History of Mexico 4HIST 3D History of the African American 3.0 AHIS 6H History of Modern Art - Honors 3.0 AHIS 6H History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 10 History of Modern Art - Honors 4.0 AHIS 11 History of Modern Art - Honors 4.0 AHIS 11 History of Modern Art - Honors 4.0 AHIS 11 History of African American 3.0 AHIS 10 AHIS 10 History of Modern Art - Honors 4.0 AHIS 11 History of Modern Art - Honors 4.0 AHIS 11 History of African American American 3.0 AHIS 10 AHIS 10 AHIS 10 History of Modern Art - Honors 4.0 AHIS 11 History of African American American 3.0 AHIS 10 AHIS
HIST 7H History of the United States to 1877 3.0 HIST 7H History of the United States to 1877 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8H History of the United States from 1865 3.0 HIST 8H History of the United States from 1865 3.0 HIST 8H History of the United States from 1865 3.0 HIST 8H History of the United States from 1865 3.0 HIST 8H History of the United States from 1865 3.0 HIST 8H History of the United States from 1865 3.0 HIST 8H HIST 9H History of the African American 3.0 AHIS 6H History of Modern Art - Honors AHIS 6H History of Modern Art - Honors AHIS 6H HIST 3H HIST 3H World History: Prehistoric to Early Modern To Early Modern - Honors ### World History: Prehistoric to Early Modern - Honors ### United States from 1865 3.0 HIST 3H HIST 3H HIST 3H ### World History: Prehistoric to Early Modern - Honors ### United States from 1865 3.0 HIST 3H HIST 3H ### World History: Prehistoric to Early Modern - Honors ### United States from 1865 3.0 HIST 3H HIST 3H ### World History: Prehistoric to Early Modern - Honors ### United States from 1865 3.0 HIST 3H ### World History: Prehistoric to Early Modern - Honors ### United States from 1865 3.0 HIST 3H ### World History: Prehistoric to Early Modern - Honors ### United States from 1865 3.0 HIST 3H ### World History: Prehistoric to Early Modern - Honors ### United States from 1865 3.0 HIST 3H ### World History: Prehistoric 3.0 HIST 3H ### World History: Prehistoric 3.0 JAPN 2 ### United States from 1865 3.0 HIST 3H ### United States from 1865 3.0 HIST 3H ### HIST 3H History of the African American 3.0 AHIS 5H HIST 3H History of Modern Art and Architecture 3.0 AHIS 1H History of Modern Art and Architecture 3.0 AHIS 1H History of African American 3.0 AHIS 1H History of Modern Art and Architecture 3.0 AHIS 1H History of Modern Art and Architecture 3.0 AHIS 1H History of Modern Art and Architecture 3.0 AHIS 1H History of Recolumina Art and Architecture 3.0 AHIS 1H History of Recolumina Art
HIST 7H History of the United States to 1877 3.0 HIST 11 History of Medern Asia 3.0 AHIS 5H History of Western Art: 3.0 Renaissance Through Modern – Honors 3.0 AHIS 6H History of Modern Art 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 7 AHIS 6H History of Modern Art 4 HIST 3.0 AHIS 7 AHIS
HIST 39 History of the United States from 1865 3.0 HIST 39 History of the African American 1619-1877 HIST 8H History of the United States from 1865 3.0 HIST 30 History of the United States from 1865 3.0 HIST 31 History of the African American 3.0 HIST 30 History of the United States from 1865 3.0 HIST 31 History of the African American 3.0 HIST 31 History of African American 3.0 HIST 30 History of Modern Art - Honors 3.0 HIST 30 History of the Mexican American 3.0 HIST 30 History of African American 3.0 HIST 31 History of African American 3.0 HIST 40 History of Modern Art History of African American 3.0 HIST 40 History of Native Americans 3.0 HIST 40 History of Modern 4.0 List A select two: (6 units) HIST 30 History of Native American American 3.0 HIST 40 History of Native American 3.0 HIST 41 History of Precolumbian Art 3.0 and Architecture HIST 31 History of Modern 4.0 LITAL 1 Continuing Intermediate Italian 4.0 LITAL 2 Continuing Intermediate Italian 4.0 LITAL 3 Intermediate Italian 4.0 LITAL 3 Intermediate Italian 4.0 LITAL 4 Continuing Intermediate Italian 4.0 LITAL 4 Continuing Intermediate Italian 4.0 LITAL 5 Continuing Intermediate Italian 4.0 LITAL 5 Continuing Intermediate Japanese 4.0 LITAL 3 Intermediate Japanese 4.0 LITAL 3 Intermediate Japanese 4.0 LITAL 3 Intermediate Japanese 4.0 LITAL 5 Continuing Intermediate Japanese 4.0 LITAL 6 Lital 8 Lital 9 Lit
HIST 8 History of the United States from 1865 3.0 HIST 30 History of the African American 3.0 AHIS 6 History of Modern Art - Honors 3.0 AHIS 7 History of Modern Art - Honors 4.0 AHIS 11 History of Modern Art - Honors 4.0 AHIS 12 History of Asian Art and Architecture 3.0 AHIS 7 History of Modern Art - Honors 4.0 AHIS 13 History of the Mexican American 3.0 AHIS 10 AHIST 10 AHIST 13 History of Africa 3.0 AHIS 10 AHIST 10 AHIST 13 History of Africa 3.0 AHIS 10 AHIST 10 AHIST 13 History of Modern Art - Honors 4.0 AHIS 12 History of Greek and Roman Art 3.0 and Architecture 4.0 AHIS 12 History of African Art 3.0 AHIS 13 History of Modern Art - Honors 4.0 AHIS 12 History of Architecture 4.0 AHIS 12 History of Architecture 4.0 AHIS 12 History of African Art 3.0 AHIS 13 History of Modern Art 4.0 AHIS 12 History of Architecture 4.0 AHIS 12 History of Architecture 4.0 AHIS 12 History of Architecture 4.0 AHIS 12 History of Precolumbian Art 3.0 AHIS 13 Intermediate Italian 4.0 AHIS 12 History of Precolumbian Art 3.0 AHIS 12 History of Precolumbian Art 3.0 AHIS 14 Continuing Intermediate Italian 4.0 AHIS 15 Principles of Cultural Anthropology 3.0 AHIS 14 History of Precolumbian Art 3.0 AHIS 15 Principles of Cultural Anthropology 3.0 AHIS 14 Continuing Intermediate Japanese 4.0 ANTH 30 The Native American 3.0 ANTH 30 The Native American
HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of the United States from 1865 3.0 HIST 8 History of He African American 3.0 HIST 9 History of Asian Art and Architecture and Architecture and Architecture HIST 9 History of Modern 1 History of African American 3.0 HIST 4 History of Native American 3.0 HIST 4 History of Native American 3.0 ITAL 1 Elementary Italian 4.0 ITAL 2 Continuing Elementary Italian 4.0 TAL 4 Continuing Intermediate Italian 4.0 HIST 4 World History: Early Modern 3.0 ITAL 4 Continuing Elementary Japanese 4.0 HIST 4 World History: Early Modern 3.0 ITAL 4 Continuing Intermediate Japanese 4.0 ITAL 5 History of Modern Art - Honors 3.0 AHIS 11 History of African American 3.0 AHIS 11 History of African, Oceanic, and Architecture 3.0 AHIS 12 History of Precolumbian Art 4.0 AHIS 12 History of
HIST 3H History of the United States from 1865 3.0 HIST 35 History of Africa 3.0 AHIS 9 History of Asian Art and Architecture 3.0 AHIST 9 History of Asian Art and Architecture 3.0 AHIST 36 History of Africa 3.0 AHIST 10 A History of Greek and Roman Art 3.0 and Architecture 3.0 AHIST 36 Women in American History 3.0 AHIST 11 History of African, Oceanic, 3.0 and Architecture 3.0 AHIST 11 History of African, Oceanic, 3.0 AHIST 12 History of African, Oceanic, 3.0 AHIST 13 History of African, Oceanic, 3.0 AHIST 14 History of African, Oceanic, 3.0 AHIST 14 History of African, Oceanic, 3.0 AHIST 14 History of African, Oceanic, 3.0 AHIST 15 History of African, Oceanic, 3.0 AHIST 14 History of African, Oceanic, 3.0 AHIST 15 History of African, Oceanic, 3.0 AHIST 14 History of African, Oceanic, 3.0 AHIST 15 History of African American History of African American History of African American History of Action American History of African American Histor
HIST 8H History of the United States from 1865 3.0 -Honors List A select two: (6 units) HIST 30 World History: Prehistoric to Early Modern World History: Prehistoric to Early Modern HIST 41 World History: Prehistoric to Early Modern World History:
HIST 36 Women in American History - Honors List A select two: (6 units) HIST 36 World History: Of the Mexican American HIST 40 History of Native Americans 3.0 AHIS 11 History of African, Oceanic, and Native American Art HIST 41 History of Native Americans 3.0 AHIS 12 History of Precolumbian Art 4.0 AHIS 12 History of Precolumbian Art 4.0 AHIS 12 History of Precolumbian Art 4.0 ANTH 5 Principles of Cultural Anthropology 3.0 AHIS 14 History of Precolumbian Art 4.0 ANTH 5 Principles of Cultural Anthropology 3.0 AHIS 14 History of Precolumbian Art 4.0 ANTH 5 Principles of Cultural Anthropology 3.0 ANTH 5 Principles of Cultural Anthropology 4.0 ANTH 5 Principles of Cultural Anthropology 4.0 ANTH 5 Principles o
HIST 40 History of the Mexican American 3.0 AHIS 11 History of African, Oceanic, and Native American Art HIST 3 World History: Prehistoric to Early Modern or HIST 4 History of Native Americans 3.0 AHIS 12 History of Precolumbian Art 3.0 AHIS 12 History of Precolumbian Art 4.0 ANTH 5 12 History of Precolumbian Art 4.0 ANTH 5 12 History of Aristory of Precolumbian Art 4.0 ANTH 5 12 History of Arist
HIST 3 World History: Prehistoric to Early Modern Or HIST 3H World History: Prehistoric to Early Modern TAL 2 Continuing Elementary Italian TAL 3 Intermediate Italian TAL 4 Continuing Intermediate Italian HIST 4 World History: Early Modern TO THE Present Or HIST 4H World History: Early Modern TO THE Present Or HIST 4H World History: Early Modern TO THE Present TO THE Native American Art TO ANTH 5 Principles of Cultural Anthropology TO THE Native American TO THE Native American TO THE Native American Art TO Advanced Japanese TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 The Native American TO THE NATIVE AMERICAN ANTH 30 THE NATIVE AMERICA
to Early Modern or HIST 3H World History: Prehistoric to Early Modern - Honors and HIST 4 World History: Early Modern or HIST 4H World History: Early Modern to the Present or HIST 4H World History: Early Modern to the Present or List B Select one course from each group: (6-7 units) ITAL 1 Elementary Italian 4.0 AHIS 12 History of Precolumbian Art and Architecture ANTH 5 Principles of Cultural Anthropology 3.0 ANTH 30 ANTH 30 The Native American 3.0 ITAL 1 Elementary Italian 4.0 ANTH 30 The Native American 3.0 ANTH 30 The Native American
HIST 3H World History: Prehistoric to Early Modern - Honors and HIST 4 World History: Early Modern to the Present or HIST 4H World History: Early Modern to the Present to the Present to the Present HIST 4H World History: Early Modern to the Present-Honors to the Present-Honors List B Select one course from each group: (6-7 units) ITAL 2 Continuing Elementary Italian 4.0 AHIS 12H History of Precolumbian Art and Architecture - Honors ANTH 5 Principles of Cultural Anthropology 3.0 ANTH 30 ANTH 30 The Native American 3.0 Advanced Japanese 4.0 ANTH 30 The Native American 3.0 Advanced Japanese 4.0 DN-T 20 History and Appreciation of Dance 3.0 LATN 1 Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0 African American Literature 3.0 Activity Modern 4.0 ANTH 30 The Native American 3.0 ANTH 30 The Native Am
HIST 3H World History: Prehistoric to Early Modern - Honors and HIST 4 World History: Early Modern to the Present or to the Present world History: Early Modern to the Present to the Present to the Present to the Present ANTH 5 Principles of Cultural Anthropology JAPN 2 Continuing Elementary Japanese JAPN 3 Intermediate Japanese JAPN 4 Continuing Intermediate Japanese JAPN 4 Continuing Intermediate Japanese JAPN 5 Advanced Japanese JAPN 6 Advanced Japanese JAPN 7 Continuing Intermediate Japanese JAPN 8 Japanese JAPN 9 Continuing Intermediate Japanese JAPN 9 Continuing Intermediate Japanese JAPN 1 Dividestanding the Visual Arts JAPN 1 Dividestanding the Visual Arts JAPN 3 Dividestanding the Visual Arts JAPN 6 Advanced Japanese LATN 1 Elementary Latin List B Select one course from each group: (6-7 units) List B Select one course from each group: (6-7 units) African American Listersture JAPN 4 Continuing Elementary Latin LATN 2 Continuing Elementary Latin LATN 2 Continuing Elementary Latin LATN 2 Continuing Elementary Latin African American Listersture JAPN 4 Continuing Elementary Latin LATN 2 Continuing Elementary Latin African American Listersture JAPN 5 Continuing Elementary Latin ANTH 5 Principles of Cultural Anthropology ANTH 5 Principles of Cultural Anthropology ANTH 20 Continuing Elementary Japanese ANTH 30 ANTH 30 The Native American JAPN 4 Continuing Elementary Latin LATN 2 Geography ANTH 30 ANTH 30 The Native American ANTH 30 The Native American JAPN 4 Continuing Elementary Latin LATN 2 Continuing Elementary Latin ANTH 30 Anthropology ANTH 30 ANTH 30 The Native American ANTH 30 The Native American JAPN 4 Continuing Intermediate Japanese ANTH 30 ANTH 30 The Native American
to Early Modern - Honors and HIST 4 World History: Early Modern 3.0 to the Present or to the Present World History: Early Modern 3.0 to the Present - Honors List B Select one course from each group: (6-7 units) ITAL 4 Continuing Intermediate Italian 4.0 JAPN 1 Elementary Japanese 4.0 JAPN 2 Continuing Elementary Japanese 4.0 JAPN 3 Intermediate Japanese 4.0 JAPN 4 Continuing Intermediate Japanese 4.0 JAPN 5 Advanced Japanese 4.0 JAPN 6 GEOG 2 Human Geography - Honors 3.0 LATN 1 Elementary Latin 4.0 JAPN 3 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 JAPN 3 GEOG 2 Human Geography - Honors 3.0 JAPN 4 Continuing Intermediate Japanese 4.0 JAPN 5 Advanced Japanese 4.0 JAPN 6 GEOG 2 Human Geography - Honors 3.0 JAPN 6 GEOG 2 Human Geography - Honors 3.0 JAPN 7 GEOG 2 Human Geography - Honors 3.0 JAPN 8 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0 JAPN 9 GEOG 2 Human Geography - Honors 3.0
HIST 4 World History: Early Modern to the Present Understanding the Visual Arts 3.0 JAPN 1 Elementary Japanese 4.0 ANTH 22 General Cultural Anthropology 3.0 JAPN 3 Intermediate Japanese 4.0 ANTH 30 The Native American 3.0 JAPN 4 Continuing Intermediate Japanese 4.0 ANTH 30 The Native American 3.0 JAPN 4 Continuing Intermediate Japanese 4.0 ANTH 30 The Native American 3.0 JAPN 5 Advanced Japanese 4.0 DN-T 20 History and Appreciation of Dance 3.0 LATN 1 Elementary Latin 4.0 GEOG 2 Human Geography 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEO
HIST 4 World History: Early Modern to the Present Or HIST 4H World History: Early Modern to the Present Or HIST 4H World History: Early Modern to the Present - Honors List B Select one course from each group: (6-7 units) JAPN 2 Continuing Elementary Japanese 4.0 ANTH 22 General Cultural Anthropology 3.0 ANTH 22 General Cultural Anthropology 3.0 ANTH 30 The Native American 3.0 ARTB 1 Understanding the Visual Arts 3.0 DN-T 20 History and Appreciation of Dance 3.0 LATN 1 Elementary Latin 4.0 GEOG 2 Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0
to the Present or HIST 4H World History: Early Modern to the Present - Honors List B Select one course from each group: (6-7 units) JAPN 3 Intermediate Japanese 4.0 ANTH 30 The Native American 3.0 ARTB 1 Understanding the Visual Arts 3.0 DN-T 20 History and Appreciation of Dance 3.0 LATN 1 Elementary Latin 4.0 GEOG 2 Human Geography 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0 LIT 20 African American Literature 3.0 CFOG 5 World Persional Geography 3.0
Understanding the Visual Arts 3.0 ARTB 1 Understanding the Visual Arts 3.0 ARTB 1 Understanding the Visual Arts 3.0 ARTB 1 Understanding the Visual Arts 3.0 DN-T 20 History and Appreciation of Dance 3.0 LATN 1 Elementary Latin 4.0 GEOG 2 Human Geography 3.0 List B Select one course from each group: (6-7 units) LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0 LATN 3 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0
HIST 4H World History: Early Modern 3.0 to the Present - Honors List B Select one course from each group: (6-7 units) JAPN 5 Advanced Japanese 4.0 DN-T 20 History and Appreciation of Dance 3.0 GEOG 2 Human Geography 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 3H Human Geography - Honors 3.0 LATN 2 CONTINUING A CONTINUIN
to the Present - Honors List B Select one course from each group: (6-7 units) LATN 1 Elementary Latin 4.0 GEOG 2 Human Geography 3.0 LATN 2 Continuing Elementary Latin 4.0 GEOG 2H Human Geography - Honors 3.0
List B Select one course from each group: (6-7 units) LATN 2 Continuing Elementary Latin African American Literature 3.0 African American Literature 3.0 CEOG 5 World Pegignal Geography
111 // Atrican Amorican Literature 2/1 (-EA)(- 5 Morid Degional (-cography 2/1)
Group 1. Divorcity Course
AHIS 9 History of Asian Art and Architecture 3.0 LIT 25 Contemporary Mexican American 3.0 HIST 39 California History 3.0
AHIS 11 History of African, Oceanic, 3.0 Literature HUMA 1 The Humanities 3.0
and Native American Art POLI 25 Latino Politics in the United States 3.0 LIT 11A World Literature to 1650 3.0
AHIS 12 History of Precolumbian Art 3.0 POLI 35 African American Politics 3.0 LIT 11B World Literature from 1650 3.0
and Architecture SPAN 1 Elementary Spanish 4.0 MUS 12 History of Jazz 3.0
AHIS 12H History of Precolumbian Art 3.0 SPAN 2 Continuing Elementary Spanish 4.0 MUS 14A World Music 3.0
and Architecture - Honors SPAN 3 Intermediate Spanish 4.0 MUS 14B American Folk Music 3.0
ARAB 1 Elementary Arabic 4.0 SPAN 4 Continuing Intermediate Spanish 4.0 MUS 15 Rock Music History and Appreciation 3.0
ARAB 2 Continuing Elementary Arabic 4.0 SIGN 101 American Sign Language 1 4.0 PHOT 15 History of Photography 3.0
CHIN 1 Elementary Chinese 4.0 SIGN 102 American Sign Language 2 4.0 THTR10 History of Theater Arts 3.0
CHIN 2 Continuing Elementary Chinese 4.0 SIGN 103 American Sign Language 3 4.0 Total Units for Major 18.0 - 19.0
YIGN IIIA American Sign Language 4 4 11 CAII General Education 39 (1 - 47 (1
CHIN 4 Continuing Intermediate Chinese 4.0 SIGN 202 AMERICAN Deal Culture 3.0 OF IGET CATTERN
COUNTY TOUR 7: DISTORY-RETAINED DUMANTIES COURSE COUNTY
EDCH 2 Continuing Flomontary French 4.0 Affilial University full Visual Affa. 3.0 C30-0E 01 IDETC.
AHIS 3 History of Women and Gender in Art 3.0 Degree Total 60.0

Associate in Arts in Music for Transfer

Arts Division Degree A0347

Music is a broad-based academic discipline with foundational coursework in theory and performance. By providing a theoretical understanding of the development and creation of music, along with requisite technical proficiency, it is expected that these skills will be used to demonstrate musical sensitivity and creativity as a soloist or in the context of a musical ensemble. To further foster these skills, optional courses in the areas of piano and music history should also be taken. The degree requires four semesters of theory, four semesters of applied music (lessons), and four semesters of musical ensemble to provide the skills necessary for transferring to a 4-year institution to pursue a degree in music, including composition, performance, and/or music education.

To earn an associate degree for transfer, a student must complete 60 semester units that are eligible for transfer to a CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least18 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:

Theory & Musicianship (16 units)

MUS 2	Music Theory	3.0
MUS 5A	Musicianship - Ear Training	1.0
	and Sight Singing	

In lieu of Music Theory (MUS 2) and Musicianship (MUS 5A), students may substitute Fundamentals of Music (MUS 7):

c.iidais o	1 1114514 (11145 7)1	
MUS 7	Fundamentals of Music	3.0
MUS 3A	Harmony - Diatonic	3.0
MUS 3B	Harmony - Chromatic I	3.0
MUS 3C	Harmony - Chromatic II	3.0
MUS 5B	Musicianship - Diatonic	1.0
MUS 6A	Musicianship - Chromatic I	1.0

MUS 6B	Musicianship - Chromatic II	1.0			
Applied A	Applied Music: 4 semesters, 0.5 units each				
(2 units)					
MUS 16 - I	ndividual Instruction	0.5			
Ensemble	e: 6 units or 4 semesters,				
variable	1.5 - 2.0 units each (5-8 uni	its)			
MUS 27	Chamber Music	1.5			
MUS 31	Concert Choir	1.5			
MUS 34	Women's Vocal Ensemble	2.0			
MUS 39	Laboratory Band	2.0			
MUS 45	Chamber Singers	2.0			
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			
MUS 50	Jazz Improvisation	2.0			
	and Performance Choir				
	Total Units for Major	23.0 - 26.0			
	CSU General Education	39.0 - 42.0			
	or IGETC Pattern				
	Courses may be double-coun	ted with either			

Associate in Arts in Political Science for Transfer Humanities and Social Sciences Division Degree A0345

60.0

HIST 4H

HIST 7

or

CSU-GE or IGETC.

Degree Total

Political Science introduces students to political science theories and methodologies used in the scientific study of political institutions and behavior. The Associate in Arts in Political Science for Transfer degree will provide students with the foundational knowledge necessary to identify research and statistical methods appropriate to political science, to compare and contrast the major theoretical perspectives in political science, and synthesize the analysis of institutions and individuals. The Associate in Arts in Political Science for Transfer degree is designed to assist students in seamlessly transferring to a CSU major in Political Science. To earn an associate degree for transfer, a student must complete 60 semester units that are eligible for transfer to a 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 cours	se: (3 units)	
POLI 1	Political Science	3.0
	<u>or</u>	
POLI 1H	Political Science - Honors	3.0
List A sele	ct three: (9-10 units)	
MATH 110	Elementary Statistics	3.0
	<u>or</u>	
MATH 110H	l Elementary Statistics — Honors	3.0
	<u>or</u>	
PSYC 10	Statistics for the Behavioral Sciences	4.0
POLI 2	Comparative Politics	3.0
POLI 5	Political Theory I - Ancient to Modern	3.0
POLI 9	Introduction to International Relations	3.0
List B select two courses from the following or		
	e not selected in List A: (6 units)	2.0
ANTH 5	Principles of Cultural Anthropology	3.0
ANTH 22	General Cultural Anthropology	3.0
BUSC 1A	Principles of Economics	3.0
	- Macroeconomics	
BUSC 1AH	<u>or</u> Principles of Economics	3.0
DUSC IAII	Macroeconomics - Honors	5.0
GEOG 2	Human Geography	3.0
dLod 2	or	5.0
GEOG 2H	Human Geography — Honors	3.0
GEOG 5	World Regional Geography	3.0
GEOG 30	Geography of California	3.0
	or	
GEOG 30H	Geography of California - Honors	3.0
HIST 1	History of the United States	3.0
HIST 4	World History: Early Modern	3.0
	to the Present	
	<u>or</u>	

World History: Early Modern

History of the United States to 187

to the Present – Honors

3.0

HIST 7H	History of the United States to 1877	3.0
	- Honors	
HIST 8	History of the United States from 186	53.0
	<u>or</u>	
HIST 8H	History of the United States	3.0
	from 1865 – Honors	
POLI 7	Political Theory II	3.0
	- Early Modern to Contemporary	
POLI 10	Environmental Politics	3.0
POLI 25	Latino Politics in the United States	3.0
POLI 30	California State and Local Governmen	nt 3.0
POLI 35	African American Politics	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
	Total Units for Major 18.0 -	19.0
	CSU General Education 39.0 -	42.0
	or IGETC Pattern	
	Courses may be double-counted with	either
	CSU-GE or IGETC.	
	Degree Total	60.0

Associate in Arts in Psychology for Transfer

Humanities and Social Sciences Division 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)

core cours	es: (10-11 Units)	
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 10	Statistics for the Behavioral Sciences	4.0
	<u>or</u>	
MATH 110	Elementary Statistics	3.0
	<u>or</u>	
	Elementary Statistics - Honors	3.0
List A sele	ct one: (3-4 Units)	
BIOL 1	General Biology	4.0
	<u>or</u>	
PSYC 1B	Biological Psychology	3.0
	ect one course from the following (
	e not selected from List A: (3 or mo	re
units)		
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 Lifespan Development	3.0
	<u>or</u>	
CHLD 10H	Child Growth	3.0
	and Lifespan Development- Honors	
	<u>or</u>	
ENGL 1C	Critical Thinking and Writing	4.0
F1161 4611	<u>or</u>	
ENGL 1CH	Critical Thinking and Writing - Honors	4.0
D.III. 2	<u>or</u>	
PHIL 3	Logic in Practice	3.0
D.III. 211	<u>or</u>	
PHIL 3H	Logic in Practice - Honors	3.0
DIIII 0	<u>or</u>	2.0
PHIL 8	Critical Thinking	3.0

	<u>or</u>	
PHIL 9	Critical Analysis and Writing	3.0
	<u>or</u>	
SOC 1	Sociology	3.0
	<u>or</u>	
SOC 1H	Sociology - Honors	3.0
	<u>or</u>	
SOC 15	Child Development	3.0
List C: Select one course from the following or		
any course not selected from List A or List B: (3		

or more units)

PSYC 5	Psychology of Reasoning and Problem Solving	3.0
	<u>or</u>	
PSYC 14	Developmental Psychology	3.0
	<u>or</u>	
PSYC 15	Introduction to Child Psychological	ogy 3.0
	<u>or</u>	
PSYC 19	Abnormal Psychology	3.0
	<u>or</u>	
PSYC 25	The Psychology of Women	3.0
	<u>or</u>	
PSYC 26	Psychology of Sexuality	3.0
	<u>or</u>	
PSYC 33	Psychology for Effective Livin	g 3.0
	Total Units for Major	19.0
	CSU General Education	39.0 - 42.0
	or IGETC Pattern	
	Courses may be double-counte	ed with either
	CSU-GE or IGETC.	
	Degree Total	60.0

Associate in Arts in Theater Arts for Transfer

Arts Division Degree A0346

The Associate in Arts in Theater Arts for Transfer develops confidence, improves communication skills and provides experiences to work in a collaborative endeavor. In each course, students learn to perfect the skills needed for the discipline of theater while learning to work cooperatively with others in theater-related disciplines. The program emphasizes self-reliance and creative problem solving along with personal artistic development. To earn an

Associate in Arts in Theater, 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. The degree allows students the flexibility to pursue a particular area of interest, however, any student who completes the AA-T in Theater Arts will be prepared to pursue an emphasis in acting, technical theater, design, playwriting or general theater. The degree has been designed to assist students who wish to obtain a baccalaureate in Theater. The degree is intended to help the student make an uninterrupted transition to a C.S.U. Students must have a minimum GPA of 2.0 in all major requirements to receive an Associate in Arts in Theater for Transfer degree and all courses in the major must be completed with a C or better. Students earning an Associate in Arts in Theater for Transfer degree will not be required to complete any other local graduation requirements.

Required Courses:

Core Courses: (9 units) TITE O Introduction to Theater Arts

IHIR9	Introduction to Theater Arts	3.0
	<u>or</u>	
THTR 10	History of Theater Arts	3.0
THTR 11	Principles of Acting I	3.0
THTR 15	Play Rehearsal and Perform	ance 1.0 - 3.0
List A: Se	lect three courses (9 - 9.5 u	ınits)
THTR 12	Principles of Acting II	3.0
THTR 14	Stagecraft	3.0
THTR 15	Play Rehearsal and Perform	ance 1.0 - 3.0
THTR 16	Theatrical Make-Up	2.5
THTR 18	Technical Theater Practicum	1.0
THTR 19	Theatrical Costuming	3.0
	Total Units for Major	18.0 - 18.5
	CSU General Education	39.0 - 42.0
	or IGETC Pattern	
	Courses may be double-coun	ted with either
	CSU-GE or IGETC.	

Associate in Science in Mathematics for Transfer

Degree Total

Natural Sciences Division Degree S0333

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:

60.0

Core Courses: (14 units)

MATH 180	Calculus and Analytic Geome	try 4.0
MATH 181	Calculus and Analytic Geome	try 5.0
MATH 280	Calculus and Analytic Geome	try 5.0
List A: (5 ι	ınits)	
MATH 285	Linear Algebra	5.0
	and Differential Equations	
List B sele	ct one: (3 - 5 or more units)
CSCI 140	C++ Language	4.0
	and Object Development	
MATH 110	Elementary Statistics	3.0
	<u>or</u>	
MATH 110H	l Elementary Statistics - Hono	rs 3.0
MATH 120	Finite Mathematics	3.0
PHYS 4A	Engineering Physics	5.0
	Total Units for Major	22.0 - 24.0
	CSU General Education	39.0 - 42.0
	or IGETC Pattern	

Courses may be double-counted with either CSU-GE or IGETC.

Degree Total 60.0

SECTION

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

Psychology

UNIVERSITY TRANSFER MAJOR OPTIONS (CONTINUED)

PHYSICAL SCIENCES Astrophysics Atmospheric Sciences Chemistry

Chemistry
Earth Science
Geophysics
Geology
Oceanography
Physical Geography

Physical Sciences

Physics

Soil/Water Sciences

MATH

Mathematics Statistics

Quantitative 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

Engineering & Computer Science

Landscape

COMPUTER SCIENCE/ENGINEERING

Aeronautics Bio-engineering Chemical

Civil

Electrical/Electronic
Environmental
Food Engineering
Industrial Engineering
Materials Science
Mechanical
Nuclear

Petroleum Business

Accounting Finance

Human Resources Management

Information Systems International Business Management

Management
Marketing
Communication
Advertising

Communication Studies

Film Studies
Journalism
Mass Communication
Motion Picture – Television
Photography
Photo – Journalism
Public – Relations
Radio – Television Services

Services

Communicative Disorders

Counseling Criminal Justice Deaf Studies

Dental Hygiene (UCSF) Fire Protection Administration Government/Public Service

Health Care Management Human Services

Liberal Studies
Library Science

Medical Lab Technology

Nursing Nutrition Occupation

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.

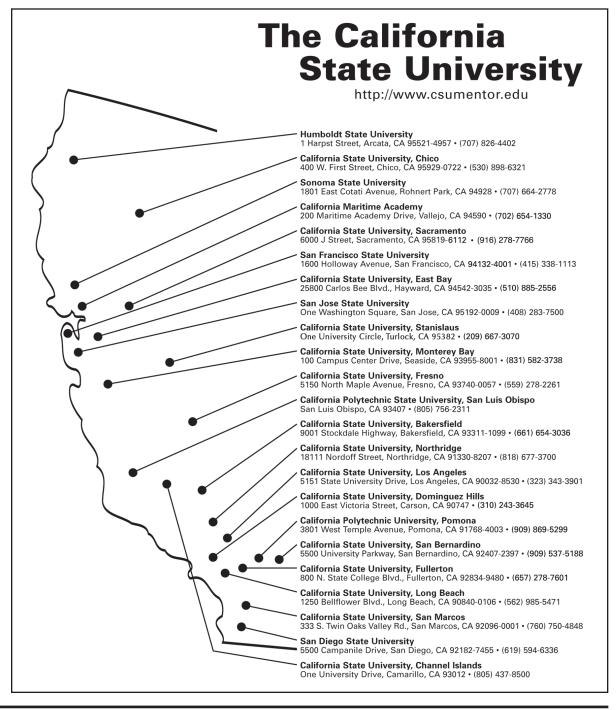
Some campuses may require lower-division transfer students to have completed English composition and general education mathematics prior to transfer. Some campuses do not admit lower-division transfer students. Contact your campus of choice to determine whether there are admission limits on the number 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 guarter units) required in college-level mathematics.



CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2013-14

The requirements listed below are for the 2013-2014 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 2013 must follow 2013-2014 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.

					1	
Area A	ASTR 5H	Introduction to Astronomy – Honors		General Physics	B-4: Mathematics	
The English Language and Critical Thinking	+ ASTR 5L	Astronomical Observing Laboratory	+ PHYS 2BG	General Physics	Select at least one course from the following list:	:
(9 units)	ASTR 7	Geology of the Solar System	+ PHYS 4A	Engineering Physics	BUSC 17 Applied Business Statistics	
Select one course from each group:	ASTR 8	Introduction to Stars, Galaxies	+ PHYS 4B	Engineering Physics	MATH 100 Survey of College Mathematics	
j '		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	ence	MATH110H Elementary Statistics — Honors	
SPCH 1A Public Speaking	+ CHEM 20	Introductory Organic and Biochemistry	Select at least	t one course from the following list:	MATH 115 Statway 11	
SPCH 1AH Public Speaking — Honors	+ CHEM 40	Introduction to General Chemistry	AGOR 1	Horticultural Science	MATH 120 Finite Mathematics	
SPCH 2 Fundamentals of Communication	+ CHEM 50	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	+ CHEM51	General Chemistry II	+ ANAT 35	Human Anatomy	MATH150 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	1
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	l
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 Scien	ences
ENGL 1CH Critical Thinking and Writing — Honors	GEOL 7	Geology of California	+ BIOL 4	Biology for Majors	Area C	l
PHIL 3 Logic in Practice	GEOL 8	Earth Science	+ BIOL 4H	Biology for Majors — Honors		
PHIL 3H Logic in Practice — Honors	GEOL 8H	Earth Science — Honors	BIOL 6	Humans and the Environment	Arts, Literature, Philosophy and	l
PHIL 8 Critical Thinking	+ GEOL 8L	Earth Science Laboratory	+BIOL 6L	Humans and the Environment Laboratory	Foreign Languages (9 units)	
PHIL 9 Critical Analysis and Writing	GEOL 9	Environmental Geology (+ BIOL 8	Cell and Molecular Biology	Select three courses, with at least one course from	Ш
PSYC 5 Psychology of Reasoning	GEOL 10	Natural Disasters	BIOL 17	Neurobiology and Behavior	"Arts" and one course from "Humanities":	
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, a	<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 3 History of Women and Gender in	
	OCEA 10	Introduction to Oceanography	+ MICR 1	Principles of Microbiology	AHIS 3H History of Women and Gender in	n Art
Area B	OCEA 10H	Introduction to Oceanography – Honors	+ MICR 22	Microbiology	- Honors	
The Physical Universe & Life (9 units minimum):	+ OCEA 10L	Introduction to Oceanography	PSYC 1B	Biological Psychology	AHIS 4 History of Western Art: Prehistor	ric
Select one course from each group. Also, one lab (+)		Laboratory	B-3: Lab Sci	- '	Through Gothic	
course must be included in one of the science groups.	+ PHSC 3	Energy Science		ent is met by taking ONE of the	AHIS 4H History of Western Art: Prehistor	ric
B-1: Physical Science —	PHSC 7	Physical Science		eindicated by a "+" sign. Lab must be	Through Gothic – Honors	l
Select at least one course from the following list:	+ PHSC 7L	Physical Science Laboratory		ing section to the lecture course taken.	AHIS 5 History of Western Art: Renaissa	ınce
ASTR 5 Introduction to Astronomy	+ PHYS 1	Physics	a correspondi	ing section to the recture course taken.	Through Modern	

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2013-14									
AHIS 5H	AHIS 5H History of Western Art: Renaissance C-2: Humanities * HIST 39 California History SIGN 101 American Sign Language 1								
ווכ כוווא	Through Modern — Honors	ARAB 1	Elementary Arabic		History of the Mexican American	SIGN 101	American Sign Language 2		
AHIS 6	History of Modern Art	ARAB 2	Continuing Elementary Arabic	HUMA1	The Humanities	SIGN 102	American Sign Language 3		
AHIS 6H	History of Modern Art — Honors	CHIN 1	Elementary Chinese	ITAL 1	Elementary Italian	SIGN 103	American Sign Language 4		
AHIS 8	History of Medieval Art and Architecture	CHIN 2	Continuing Elementary Chinese	ITAL 2	Continuing Elementary Italian	SIGN 202	American Deaf Culture		
AHIS 9	History of Asian Art and Architecture	CHIN 3	Intermediate Chinese	ITAL 3	Intermediate Italian	SPAN 1	Elementary Spanish		
AHIS 10	A History of Greek and Roman Art	CHIN 4	Continuing Intermediate Chinese	ITAL 4	Continuing Intermediate Italian	SPAN 2	Continuing Elementary Spanish		
ALUC 44	and Architecture	ENGL 1B	English — Introduction to Literary Types	ITAL 60	Italian Culture Through Cinema	SPAN 3	Intermediate Spanish		
AHIS 11	History of African, Oceanic and Native	ENGL 1BH	English — Introduction to Literary Types	JAPN 1	Elementary Japanese	SPAN 4	Continuing Intermediate Spanish		
	American Art		- Honors	JAPN 2	Continuing Elementary Japanese	SPAN 11	Spanish for the Spanish Speaking		
AHIS 12	History of Precolumbian Art	FRCH 1	Elementary French	JAPN 3	Intermediate Japanese	SPAN 12	Continuing Spanish		
	and Architecture	FRCH 2	Continuing Elementary French	JAPN 4	Continuing Intermediate Japanese		for the Spanish Speaking		
AHIS 12H	History of Precolumbian Art	FRCH 3	Intermediate French	JAPN 5	Advanced Japanese	Area D			
	and Architecture — Honors	FRCH 4	Continuing Intermediate French	LATN 1	Elementary Latin	Social, Polit	ical, and Economic Institutions and		
AHIS 14	Rome: The Ancient City	FRCH 5	Advanced French	LATN 2	Continuing Elementary Latin		istorical Background		
AHIS 15	Culture and Art of Pompeii	FRCH 6	Continuing Advanced French	LIT 1	Early American Literature		rses: Minimum 9 units with courses from		
ARCH 31	World Architecture I	FRCH 60	French Culture Through Cinema	LIT 2	Modern American Literature		isciplines (D0 – D9):		
ARCH 32	World Architecture II	GERM 1	Elementary German	LIT 3	Multicultural American Literature		gy & Criminology		
ARTB 14	Basic Studio Arts	GERM 2	Continuing Elementary German	LIT 6A	Survey of English Literature	CHLD 1	Child, Family, School and Community		
ARTD 15A	Drawing: Beginning	GERM 3	Intermediate German	LIT 6B	Survey of English Literature				
ARTD 20	Design: Two-Dimensional	* HIST 1	History of the United States	LIT 10	Survey of Shakespeare	SOC 1 SOC 1H	Sociology		
ARTD 25A	Beginning Painting I	* HIST 3	World History: Prehistoric	LIT 11A	World Literature to 1650		Sociology – Honors		
ARTG 20	Art, Artists and Society		to Early Modern	LIT 11B	World Literature from 1650	SOC 2	Contemporary Social Problems		
ARTS 22	Design: Three-Dimensional	* HIST 3H	World History: Prehistoric	LIT 14	Introduction to Modern Poetry	SOC 2H	Contemporary Social Problems – Honors		
ARTS 30A	Ceramics: Beginning I		to Early Modern — Honors	LIT 15	Introduction to Cinema	SOC 4	Introduction to Gerontology		
ARTS 40A	Sculpture: Beginning	* HIST 4	World History: Early Modern	LIT 20	African American Literature	SOC 5	Introduction to Criminology		
DN-T 20	History and Appreciation of Dance		to the Present	LIT 25	Contemporary Mexican American Lit	SOC 5H	Introduction to Criminology – Honors		
ID 14	History of Furniture and Decorative	* HIST 4H	World History: Early Modern		Introduction to Mythology	SOC 14	Marriage and the Family		
10 11	Arts	11131 111	to the Present – Honors	LIT 40	Children's Literature	SOC 14H	Marriage and the Family — Honors		
MUS 7	Fundamentals of Music	* HIST 7	History of the United States to 1877	LIT 46	The Bible as Literature: Old Testament	* SOC 15	Child Development		
MUS 11A	Music Literature Survey	* HIST 7H	History of the United States to 1877	LIT 47	The Bible as Literature: New Testament	* SOC 20	Sociology of Ethnic Relations		
MUS 11B	Music Literature Survey	11131 /11	- Honors	PHIL 5	Introduction to Philosophy	* SOC 20H	Sociology of Ethnic Relations — Honors		
MUS 110	History of Jazz	* HIST 8	History of the United States	PHIL 5H	Introduction to Philosophy – Honors	D-1: Anthro	pology & Archeology		
MUS 12	Introduction to Music Appreciation	ט וכווו	from 1865	PHIL 12	Ethics	ANTH 3	Archeology		
MUS 13	Introduction to Music Appreciation	* HIST 8H	History of the United States	PHIL 12H	Ethics — Honors	ANTH 5	Principles of Cultural Anthropology		
חכו כטואו	- Honors	ווס וכווו	from 1865— Honors	PHIL 12H	Major World Religions	ANTH 22	General Cultural Anthropology		
MUS 14A	World Music	* HIST 10	History of Premodern Asia	PHIL 15H	Major World Religions — Honors	ANTH 30	The Native American		
MUS 14A MUS 14B	American Folk Music	* HIST 10			History of Western Philosophy	D-2: Econom			
			History of Modern Asia	PHIL 20A		AGAG 1	Food Production, Land Use		
MUS 15	Rock Music History and Appreciation	* HIST 19	History of Mexico		History of Western Philosophy – Honors	I DADA			
PHOT 15	History of Photography	* HIST 30	History of the African American		History of Western Philosophy	ACED 20	and Politics — A Global Perspective		
SPCH 4	Performance of Literature	* IUCT 34	1619 - 1877		History of Western Philosophy – Honors	AGFR 20	Conservation of Natural Resources		
THTR 9	Introduction to Theatre Arts	* HIST 31	History of the African American	* POLI 5	Political Theory I — Ancient to Modern	BUSC 1A	Principles of Economics		
THTR 10	History of Theatre Arts	* HIST 35	History of Africa	* POLI 7	Political Theory II — Early Modern	DUCC 4AT	- Macroeconomics		
THTR 11	Principles of Acting I	* HIST 36	Women in American History		to Contemporary	BUSC 1AH	Principles of Economics		
							 Macroeconomics – Honors 		

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2013-14							
BUSC 1B	Principles of Economics	* HIST 8H	History of the United States	Area E		Notes	
	– Microeconomics		from 1865 — Honors		derstanding & Self Development	1. Upper division transfer students (60-70 semester	
BUSC 1BH	Principles of Economics	* HIST 10	History of Premodern Asia		derstanding & Seit Development	baccalaureate units), will need to have at least	
	- Microeconomics - Honors	* HIST 11	History of Modern Asia	(3 units)		30 semester units of general education. Within	
JOUR 100	Introduction to Mass Media	* HIST 19	History of Mexico	Select at least		those 30 units, Area A (9) semester units and	
D-3: Ethnic		* HIST 30	History of the African American	AD 3	Chemical Dependency: Intervention,	Mathematics (3) semester units must be	
		11131 30	1619 - 1877	5101 -	Treatment and Recovery	completed with grades of "C" or better.	
* HIST 30	History of the African American 1619 - 1877	* HIST 31	History of the African American	BIOL 5	Contemporary Health Issues	CSULA transfer students are advised to complete	
* IUCT 21		* HIST 35	History of Africa	BIOL 13	Human Reproduction, Development	ENGL 1C or ENGL 1CH as part of the Area A	
* HIST 31	History of the African American	* HIST 36	Women in American History		and Aging	requirements. CSULA requires completion of	
* HIST 40	History of the Mexican American	* HIST 39	California History	BIOL 15	Human Sexuality	ENGL 102 (ENGL 1C or 1CH) as a prerequisite to	
* HIST 44	History of Native Americans	* HIST 40	History of the Mexican American	BIOL 15H	Human Sexuality — Honors	UNIV 400 (Writing Proficiency Examination).	
JOUR 107	Race, Culture, Sex,	* HIST 44	History of Native Americans	BIOL 24	Introduction to Public Health	3. Courses on this list have been approved by	
× 5011 25	and Mass Media Images		•	* CHLD 10	Child Growth and Lifespan Development	the CSU Office of the Chancellor for Fall 2013 and	
* POLI 25	Latino Politics in the United States		sciplinary Social or Behavioral	* CHLD 10H	Child Growth and Lifespan Development	beyond. If a course was completed prior to	
* POLI 35	African American Politics	Science			- Honors	approval, it cannot be certified for CSU General	
* SOC 20	Sociology of Ethnic Relations	* CHLD 10	Child Growth and Lifespan Development	* CHLD 11	Child and Adolescent Development	Education—Breadth requirements.	
* SOC 20H	Sociology of Ethnic Relations	* CHLD 10H		COUN 5	Career/Life Planning	4. Some majors at CSU do not allow double	
	- Honors		- Honors	FCS 41	Life Management	counting of major preparation courses and	
D-4: Gender		* CHLD 11	Child and Adolescent Development	KIN 34	Fitness for Living	general education requirements. Students are	
* HIST 36	Women in American History	SPCH 7	Intercultural Communication	LEAD 55	Exploring Leadership	advised to consult with a counselor or advisor to	
* PSYC 25	The Psychology of Women	SPCH 7H	Intercultural Communication — Honors	NF 10	Nutrition for Personal Health	determine if courses can be double counted.	
D-5: Geogra	phy	* SPCH 26	Interpersonal Communication		and Wellness	Some majors require specific general education	
GEOG 2	Human Geography	* SPCH 26H	Interpersonal Communication — Honors	NF 25	Essentials of Nutrition	courses. Students planning to transfer are	
GEOG 2H	Human Geography — Honors	SPCH 30	Gateway to Communication Studies	NF 25H	Essentials of Nutrition — Honors	advised to plan their schedules carefully in order	
GEOG 5	World Regional Geography	D-8: Politica	ol Science, Government, and	NF 28	Cultural and Ethnic Foods	to maintain progress.	
GEOG 8	The Urban World	Legal Institu	utions	* PSYC 14	Developmental Psychology		
GEOG 30	Geography of California	POLI 1	Political Science	* PSYC 15	Introduction to Child Psychology	* Courses may not be double counted to satisfy	
GEOG 30H		POLI 1H	Political Science — Honors	* PSYC 25	The Psychology of Women	more than one area, even if a course is listed in	
D-6: History	• . ,	POLI 2	Comparative Politics	PSYC 26	Psychology of Sexuality	more than one area.	
* HIST 1	History of the United States	* POLI 5	Political Theory I — Ancient to Modern	PSYC 33	Psychology for Effective Living		
* HIST 3	World History: Prehistoric	* POLI 7	Political Theory II — Early Modern	* SOC 15	Child Development		
11131 3	to Early Modern		to Contemporary	* SPCH 26	Interpersonal Communication		
* HIST 3H	World History: Prehistoric	POLI 9	Introduction to International Relations	* SPCH 26H	Interpersonal Communication — Honors		
пізі эп	to Early Modern — Honors	POLI 10	Environmental Politics				
* HIST 4	World History: Early Modern	POLI 25	Latino Politics in the United States				
П П 4	to the Present	POLI 35	African American Politics		RICAN INSTITUTIONS & U.S. HISTORY	GRADUATION REQUIREMENT:	
* HIST 4H	World History: Early Modern	D-9: Psychol	logy	Option 1:	HIST 7 (or 7H) + HIST 8 (or 8H)		
П П 4П	to the Present — Honors	PSYC 1A	Introduction to Psychology		If Option #1 is selected, DO NOT select a	nother D6 course as your third Area D course.	
* HIST 7	History of the United States to 1877	PSYC 1AH	Introduction to Psychology — Honors	Option 2:	Completion of one course from U.S. Hist	cory plus one course from American Institutions:	
* HIST 7H	History of the United States to 1877 History of the United States to 1877	* PSYC 14	Developmental Psychology		United States History:	American Institutions:	
וכוח ודו	•	* PSYC 15	Introduction to Child Psychology			ST 31 HIST 40 POLI 1 POLI 25	
* 11107 0	- Honors	PSYC 19	Abnormal Psychology			ST 36 POLI 1H POLI 35	
* HIST 8	History of the United States	* PSYC 25	The Psychology of Women	The two co	ourses from Option 1 or Option 2 may be u		
1	from 1865	FOIL 23	me i sychology of Wolliell	THE COVO CC	ourses from option 1 of option 2 may be t	isca as part of the 7 units for After D.	

THE UNIVERSITY OF CALIFORNIA

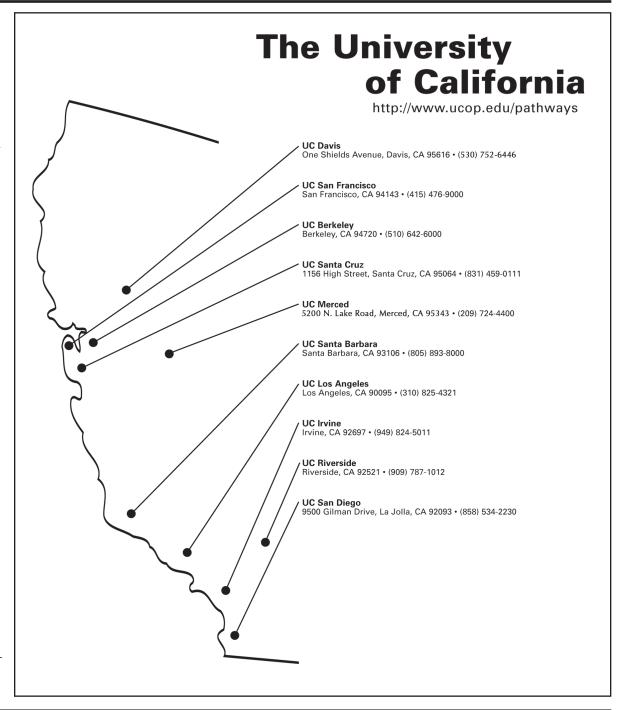
UC Minimum Admission Requirements

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.
- 3. If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, you must:
 - A. Complete 60 semester units (or 90 quarter units) of transferable college credit with at least a 2.4 GPA. No more than 14 semester units may be taken pass/no pass; and
 - B. Complete the following course pattern requirement, earning a grade of "C" or better in each course:
 - two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
 - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and
 - four transferable college courses (3 semester or 4-5 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) 2013-14

The requirements listed below are for the 2013-2014 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 lower-division general education courses to satisfy university general education requirements. It should be noted that completion of the IGETC is not an admission requirement for transfer to UC or CSU, nor is it the only way to fulfill the lower-division general education requirements of UC or CSU prior to transfer. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option to be advantageous (i.e. Engineering, Sciences).

The requirements listed below must be completed in their entirety for full certification to the UC and CSU. For students who have completed coursework at multiple campuses, the campus of last attendance prior to transfer to UC or CSU will certify the coursework. Mt. SAC will certify coursework from other campuses according to the IGETC list of the originating campus. A minimum grade of "C" is required in each course. (A grade of "C—" is not acceptable.)

Students beginning Fall 2013 must follow 2013-2014 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	
English Com	munication
	rse from each group:
Group A: End	glish Composition
ENGL 1A	
ENGL 1AH	Freshman Composition — Honors
Group B: Crit	tical Thinking – Composition
ENGL 1C	Critical Thinking and Writing
ENGL 1CH	Critical Thinking and Writing — Honors
PHIL 9	Critical Analysis and Writing
	l Communication
CSU requireme	
SPCH 1A	1 3
	Public Speaking — Honors
SPCH 2	Fundamentals of Communication
Area 2	
Mathematic	al Concepts and Quantitative
Reasoning	
Select one cou	
	Elementary Statistics
MATH 110H	, ,
MATH 120	
MATH 130	
MATH 140 MATH 160	Calculus for Business Precalculus Mathematics
MATH 180	Calculus and Analytic Geometry
MATH 181	Calculus and Analytic Geometry
1/1/11/101	calculus and Analytic acometry

Arts	and	Humanities
AI C	ullu	Hamanico

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

MATH 280 Calculus and Analytic Geometry

Linear Algebra and Differential Equations

Statistics for the Behavioral Sciences

Arts Courses:

PSYC 10

Area 3

AHIS 1 Understanding the Visual Arts, or

		, j
ARTB		Understanding the Visual Arts
AHIS		History of Women and Gender in Art
AHIS	3H	History of Women and Gender in Art — Honors
AHIS	4	History of Western Art: Prehistoric Through Gothic
AHIS	4H	History of Western Art: Prehistoric Through Gothic — Honors
AHIS	5	History of Western Art: Renaissance Through Modern
AHIS	5H	History of Western Art: Renaissance Through Modern — Honors
AHIS	6	History of Modern Art
AHIS		History of Modern Art — Honors
AHIS		History of Medieval Art and Architecture
AHIS		History of Asian Art and Architecture
AHIS	10	A History of Greek and Roman Art and Architecture
AHIS	11	History of African, Oceanic,
AHIS	17	and Native American Art History of Precolumbian Art
כוווא	12	and Architecture
AHIS	12H	History of Precolumbian Art
		and Architecture — Honors
AHIS	14	Rome: The Ancient City
AHIS	15	Culture and Art of Pompeii
ARCH		World Architecture I
ARCH	32	World Architecture II
DN-T	20	History and Appreciation of Dance
MUS	11A	Music Literature Survey
MUS	11B	Music Literature Survey
MUS	12	History of Jazz
MUS	13	Introduction to Music Appreciation
MUS	13H	Introduction to Music Appreciation — Honors
MUS	14A	World Music
MUS	14B	American Folk Music
MUS		Rock Music History and Appreciation
THTR	10	History of Theater Arts

CHIN 3 Intermediate Chinese CHIN 4 Continuing Intermediate Chinese ENGL 1BH English — Introduction to Literary Types ENGL 1BH Continuing Intermediate French FRCH 3 Intermediate French FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 6 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern — Honors HIST 4 World History: Early Modern to the Present — Honors HIST 7 History of the United States to 1877 — Honors HIST 7 History of the United States From 1865 HIST 8 History of the United States From 1865 — Honors HIST 10 History of Premodern Asia HIST 10 History of Premodern Asia HIST 10 History of Premodern Asia HIST 11 History of Mexico HIST 30 History of Mexico HIST 30 History of Mexico HIST 31 History of Mexico HIST 33 History of Mexico HIST 35 History of Sefician American HIST 35 History of Mexico HIST 36 Women in American History HIST 37 History of Mexico HIST 38 History of Mexico HIST 39 California History HIST 30 History of Mexico HIST 36 Women in American History HIST 37 History of Mexico HIST 38 History of Mexico HIST 39 California History HIST 30 History of Mexico HIST 30 History of Mexico HIST 31 History of Mexico HIST 32 History of Mexico HIST 33 History of Mexico HIST 34 History of Mexico HIST 35 History of Mexico HIST 36 Women in American History HIST 37 History of Mexico HIST 38 History of Mexico HIST 39 California History HIST 39 California History HIST 39 California History HIST 39 History of Mexican American HIST 36 History of Mexican American HIST 37 History of Mexico HIST 38 History of Mexico HIST 39 California History HIST 30 History of Mexico HIST 30 H	Н	uman	ities (Courses:		ITAL	3	Intermediate Italian
CHIN 4 Continuing Intermediate Chinese ENGL 1BH English — Introduction to Literary Types ENGL 1BH Intermediate French Coliterary Types — Honors FRCH 3 Intermediate French FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 6 Continuing Advanced French FRCH 7 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3 World History: Prehistoric to Early Modern HIST 4 World History: Early Modern to the Present HIST 4 World History: Early Modern to the Present — Honors HIST 7 History of the United States to 1877 — Honors HIST 8 History of the United States From 1865 HIST 8 History of the United States HIST 1 History of the United States From 1865 HIST 8 History of the United States HIST 10 History of Mexico HIST 11 History of Mexico HIST 13 History of Mexico HIST 14 History of Mexico HIST 15 History of Mexico HIST 16 History of Mexico HIST 17 History of Mexico HIST 18 History of Mexico HIST 19 History of Mexico HIST 19 History of Mexico HIST 10 History of Mexico HIST 10 His		CHIN	3	Intermediate Chinese		ITAL	4	Continuing Intermediate Italian
ENGL 1BH English – Introduction to Literary Types – Honors FRCH 3 Intermediate French FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 6 Continuing Advanced French FRCH 6 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3 World History: Prehistoric to Early Modern — Honors HIST 4 World History: Early Modern HIST 4 World History: Early Modern To the Present — Honors HIST 7 History of the United States to 1877 — Honors HIST 7 History of the United States to 1877 — Honors HIST 8 History of the United States From 1865 — Honors HIST 10 History of the United States From 1865 — Honors HIST 11 History of Modern Asia HIST 12 History of Modern Asia HIST 13 History of Mexico HIST 31 History of Mexico HIST 32 History of the African American HIST 33 History of the African American HIST 34 History of the African American HIST 35 History of Shefican American HIST 36 Women in American History HIST 37 History of Mexico HIST 38 History of He African American HIST 39 California History HIST 39 California History HIST 39 California History HIST 30 History of the Mexican American HIST 37 History of He Mexican American HIST 38 History of He African American HIST 39 California History HIST 30 History of He Mexican American HIST 30 History of the Mexican American HIST 30 History of He African American HIST 31 History of He African American HIST 32 California History HIST 39 California History HIST 30 History of the Mexican American HIST 30 History of He Mexican American HIST 31 History of He Mexican American HIST 30 History of He African American HIST 31 History of He African American HIST 31 History of He African American HIST 32 History of He African American HIST 33 History of He African American HIST 34 History of He African Americ		CHIN	4	Continuing Intermediate Chinese		ITAL	60	Italian Culture Through Cinema
ENGL 1BH English – Introduction to Literary Types – Honors FRCH 3 Intermediate French FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 6 Continuing Advanced French FRCH 6 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3 World History: Prehistoric to Early Modern HIST 4 World History: Early Modern HIST 4 World History: Early Modern to the Present – Honors HIST 7 History of the United States to 1877 HIST 7 History of the United States to 1877 HIST 7 History of the United States to 1877 HIST 8 History of the United States from 1865 – Honors HIST 8 History of the United States from 1865 – Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 13 History of Mexico HIST 31 History of Mexico HIST 33 History of the African American HIST 35 History of Shrica HIST 36 Women in American History HIST 37 History of Mexico HIST 38 History of Howexico HIST 39 California History HIST 39 California History HIST 39 California History HIST 30 History of the Mexican American HIST 36 History of Homen American History HIST 37 History of Homen American History HIST 39 California History SPAN 3 Intermediate Japanese Advanced Japanese Advanced Japanese LiT 1 Early American Literature LIT 2 Modern American Literature LIT 3 Multicultural American Literature LIT 4 Survey of English Lite		ENGL	1B	English — Introduction to Literary Types		JAPN	3	Intermediate Japanese
to Literary Types – Honors FRCH 3 Intermediate French FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 6 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3 World History: Prehistoric to Early Modern Honors HIST 4 World History: Early Modern to the Present HIST 4 World History: Early Modern to the Present HIST 7 History of the United States to 1877 HIST 7 History of the United States to 1877 HIST 7 History of the United States from 1865 HIST 8 History of the United States from 1865 History of Premodern Asia HIST 10 History of Mexico HIST 30 History of the African American 1619-1877 HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American History HIST 39 California History HIST 39 California History HIST 30 History of the Mexican American HIST 37 World Religions HIST 30 History of the African American HIST 37 History of Mexico HIST 38 History of the African American HIST 39 California History HIST 39 California History HIST 30 History of the Mexican American HIST 30 History of the Mexican American HIST 31 History of Mexico HIST 31 History of the African American HIST 33 Galifornia History HIST 34 History of the African American HIST 37 History of Mexico HIST 39 California History HIST 39 California History HIST 30 History of the Mexican American HIST 30 History of the Mexican American HIST 31 History of the Mexican American HIST 34 History of the Mexican American HIST 36 Introduction to Modern **POLI 5 Political Theory II – Early Modern to Contemporary HIST 39 California History HIST 30 History of the Mexican American HIST 31 History of the		ENGL	1BH			JAPN	4	Continuing Intermediate Japanese
FRCH 3 Intermediate French FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 6 Continuing Advanced French FRCH 6 Continuing Advanced French FRCH 6 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3World History: Prehistoric to Early Modern — Honors HIST 4 World History: Early Modern to the Present HIST 4 World History: Early Modern to the Present HIST 7 History of the United States to 1877 HIST 7 History of the United States to 1877 HIST 7 History of the United States to 1877 HIST 7 History of the United States to 1877 HIST 8 History of the United States from 1865 HIST 8 History of the United States from 1865 HIST 10 History of Modern Asia HIST 11 History of Modern Asia HIST 12 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 32 Gontemporary Mexican American HIST 33 History of the United States from 1865 HIST 19 History of Modern Asia HIST 31 History of Mexico HIST 31 History of Mexico HIST 33 History of Africa HIST 34 World Fireature LIT 6A Survey of English Literature LIT 10 Survey of English Literature LIT 10 Survey of Shakespeare LIT 11 World Literature to 1650 LIT 11 II World Literature to 1650 LIT 11 II II World Literature from 1650 LIT 12 Introduction to Modern Poetry LIT 20 African American Literature LIT 36 Introduction to Mythology LIT 46 Introduction to Mythology LIT 46 Introduction to Mythology LIT 47 The Bible as Literature: New Testament LIT 47 The Bible as Literature: New Testament LIT 40 Introduction to Philosophy PHIL 12 Ethics HIST 36 History of Modern Asia HIST 37 History of Modern Asia HIST 39 History of Modern Asia HIST 30 History of Modern Asia HIST 31 History of Mexico HIST 31 History of Mexico HIST 32 History of Africa HIST 33 History of Africa HIST 34				to Literary Types — Honors		JAPN	5	
FRCH 4 Continuing Intermediate French FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 60 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern Honors HIST 3H World History: Early Modern to the Present HIST 4H World History: Early Modern HIST 7H History of the United States to 1877 HIST 7H History of the United States to 1877 HIST 7H History of the United States to 1877 HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 12 History of the African American HIST 13 History of the African American HIST 31 History of the African American HIST 31 History of Africa HIST 33 Galifornia History HIST 34 History of Africa HIST 35 Galifornia History HIST 37 History of Africa HIST 37 History of Africa HIST 38 History of He Mexican American HIST 39 Galifornia History HIST 39 Galifornia History HIST 39 Galifornia History HIST 39 Galifornia History HIST 30 History of He Mexican American HIST 37 History of Mexica HIST 39 Galifornia History HIST 39 Galifornia History HIST 39 Galifornia History HIST 39 Galifornia History HIST 40 History of the Mexican American HIST 40 History of the Mexican American HIST 54 History of Mexican American HIST 54 History of Mexican American HIST 55 History of Mexican American HIST 39 Galifornia History HIST 40 History of He Mexican American HIST 40 History of He Mexican American HIST 54 History of Mexican American HIST 55 History of Mexican American HIST 56 History of He Mexican American HIST 57 History of Mexican American HIST 57 History of Mexican American HIST 58 History of He African American HIST 59 Contemporary HIST 39 Galifornia History HIST 39 Galifornia History HIST 39 Galifornia History HIST 30 History of He African American HIST 57 History of Hexel African American HIST 58 History of Hexel African American HIST 59 History of Hexel African American HIST 60 History of Hexel African A		FRCH	3			LIT	1	
FRCH 5 FRCH 6 Continuing Advanced French FRCH 6 FRCH 6 FRCH 6 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States to 1877 HIST 7 History of the United States to 1877 HIST 7 History of the United States from 1865 HIST 8 History of the United States from 1865 HIST 8 History of the United States from 1865 HIST 10 History of the United States from 1865 HIST 11 History of the United States from 1865 HIST 11 History of the United States from 1865 HIST 11 History of the United States from 1865 HIST 11 History of Modern Asia HIST 12 History of Modern Asia HIST 13 History of Modern Asia HIST 14 History of the African American HIST 15 History of the African American HIST 36 History of the African American HIST 31 History of the African American HIST 31 History of the African American HIST 33 History of Africa HIST 34 HIST 36 Women in American History HIST 37 HIST 37 Galifornia History HIST 39 Galifornia History HIST 30 History of the Mexican American HIST 30 History of Africa HIST 30 History of He Mexican American HIST 31 History of Mexican American HIST 32 HIST 33 Galifornia History HIST 34 HIST 36 HIST 37 HIST 37 HIST 38 HIST 39 Galifornia History HIST 39 HIST 30 History of the Mexican American HIST 39 HIST 40 History of the Mexican American HIST 39 HIST 40 History of He Mexican American HIST 39 HIST 40 History of He Mexican American HIST 39 HIST 40 History of the Mexican American HIST 39 HIST 40 History of He Mexican American HIST 39 HIST 40 History of He Mexican American HIST 39 HIST 40 History of He Mexican American HIST 39 HIST 40 History of He Mexican American HIST 39 HIST 40 History of He Mexican American HIST 40 HIST 40 History of He Mexican American HIST 40 History of He Mexican American HIST 40 HIST 40 HIST 40 HIST 40 History of He Mexican American HIST 40 HI		FRCH	4	Continuing Intermediate French		LIT	2	
FRCH 60 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3H World History: Prehistoric to Early Modern HIST 4H World History: Early Modern to the Present HIST 4H World History: Early Modern to the Present HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 HIST 8H History of the United States from 1865 HIST 10 History of the United States from 1865 HIST 10 History of Modern Asia HIST 19 History of Hold Hold Hold Hold Hold Hold Hold Hold		FRCH	5			LIT	3	Multicultural American Literature
FRCH 60 French Culture Through Cinema GERM3 Intermediate German HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3H World History: Prehistoric to Early Modern HIST 4H World History: Early Modern to the Present HIST 4H World History: Early Modern to the Present HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 HIST 8H History of the United States from 1865 HIST 10 History of the United States from 1865 HIST 10 History of Modern Asia HIST 19 History of Hold Hold Hold Hold Hold Hold Hold Hold		FRCH	6	Continuing Advanced French		LIT	6A	Survey of English Literature
GERM3		FRCH	60			LIT	6B	
HIST 1 History of the United States HIST 3 World History: Prehistoric to Early Modern HIST 3H World History: Prehistoric to Early Modern — Honors HIST 4 World History: Early Modern to the Present HIST 4H World History: Early Modern to the Present — Honors HIST 7 History of the United States to 1877 — Honors HIST 8H History of the United States from 1865 HIST 8H History of the United States HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 11 History of Modern Asia HIST 120 African American LIT 13 Introduction to Modern American Literature LIT 25 Contemporary Mexican American Literature LIT 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: New Testament PHIL 5 Introduction to Philosophy — Honors PHIL 12 Ethics PHIL 12 Ethics PHIL 12 Ethics — Honors PHIL 15 Major World Religions PHIL 15 Major World Religions — Honors PHIL 20A History of Western Philosophy PHIL 20A History of Western Philosophy PHIL 20BH History of Wes		GERM	3	Intermediate German		LIT	10	
to Early Modern HIST 3H World History: Prehistoric to Early Modern — Honors HIST 4 World History: Early Modern to the Present HIST 4H World History: Early Modern to the Present to the Present—Honors HIST 7 History of the United States to 1877—Honors HIST 7H History of the United States to 1877—Honors HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865—Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 11 History of Modern Asia HIST 12 History of Modern Asia HIST 13 History of the African American HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Modern HIST 36 Women in American History HIST 39 California History HIST 39 California History HIST 30 History of the Mexican American HIST 39 California History HIST 40 History of the Mexican American HIST 39 Introduction to Modern Act Introduction to Mythology LIT 20 African American Literature LIT 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Philosophy HIL 5 Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Philosophy HIL 5 Introduction to Philosophy HIL 5 Hintroduction to Mythology LIT 46 The Bible as Literature: New Testament HIST 36 History of the United States HIST 47 The Bible as Literature: New Testament HIST 47 The Bible as		HIST	1	History of the United States		LIT	11A	
to Early Modern HIST 3H World History: Prehistoric to Early Modern — Honors HIST 4 World History: Early Modern to the Present HIST 4H World History: Early Modern to the Present to the Present—Honors HIST 7 History of the United States to 1877—Honors HIST 7H History of the United States to 1877—Honors HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865—Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 11 History of Modern Asia HIST 12 History of Modern Asia HIST 13 History of the African American HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Modern HIST 36 Women in American History HIST 39 California History HIST 39 California History HIST 30 History of the Mexican American HIST 39 California History HIST 40 History of the Mexican American HIST 39 Introduction to Modern Act Introduction to Mythology LIT 20 African American Literature LIT 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Philosophy HIL 5 Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Mythology LIT 46 The Bible as Literature: New Testament Introduction to Philosophy HIL 5 Introduction to Philosophy HIL 5 Hintroduction to Mythology LIT 46 The Bible as Literature: New Testament HIST 36 History of the United States HIST 47 The Bible as Literature: New Testament HIST 47 The Bible as		HIST	3	World History: Prehistoric		LIT	11B	World Literature from 1650
to Early Modern — Honors HIST 4 World History: Early Modern to the Present HIST 4H World History: Early Modern to the Present — Honors HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 — Honors HIST 8 History of the United States from 1865 — Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 11 History of Mexico HIST 13 History of the African American HIST 30 History of the African American HIST 31 History of Africa HIST 35 History of Africa HIST 36 Women in American History HIST 37 California History HIST 39 California History HIST 40 History of the Mexican American HIST 39 California History HIST 40 History of the Mexican American ELIT 25 Contemporary Mexican American Literature LIT 26 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: Old Testament LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: Old Testament HIST 47 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: Old Testament HIST 47 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: Old Testament HIST 48 History of the United States PHIL 12 Ethics PHIL 15 Major World Religions PHIL 20A History of Western Philosophy PHIL 20A History of Western Philosophy PHIL 20A History of Western Philosophy PHIL 20B History of Western Philosophy PHIL				to Early Modern		LIT	14	Introduction to Modern Poetry
HIST 4 World History: Early Modern to the Present HIST 4H World History: Early Modern to the Present HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 HIST 8H History of the United States from 1865 HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 12H History of Modern Asia HIST 13History of the African American HIST 30History of the African American HIST 31History of Africa HIST 35History of Africa HIST 39 California History HIST 39 California History HIST 40History of the Mexican American HIST 39 California History HIST 40History of the Mexican American Literature LIT 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: Old Testament HIST		HIST	3H	World History: Prehistoric		LIT	15	Introduction to Cinema
to the Present HIST 4H World History: Early Modern to the Present — Honors HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 — Honors HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 — Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 12 History of Modern Asia HIST 13 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Literature LIT 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: New Testament PHIL 5 Introduction to Philosophy PHIL 12 Ethics PHIL 12 Ethics PHIL 12 Ethics — Honors PHIL 15H Major World Religions — Honors PHIL 20A History of Western Philosophy PHIL 20AH History of Western Philosophy PHIL 20AH History of Western Philosophy — Honors PHIL 20BH History of Western Philosophy — Honors POLI 5 Political Theory II — Early Modern to Contemporary SIGN 104 American Sign Language 4 SIGN 202 American Deaf Culture SPAN 3 Intermediate Spanish				to Early Modern — Honors		LIT	20	African American Literature
HIST 4H World History: Early Modern to the Present — Honors HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 — Honors HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 PHIL 12H Ethics — Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 12H History of Mexico HIST 13History of Mexico HIST 30 History of the African American HIST 31 History of Africa HIST 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: New Testament HIL 5H Introduction to Philosophy PHIL 5H Introduction to Philosophy PHIL 12 Ethics PHIL 12 Ethics — Honors PHIL 15H Major World Religions — Honors PHIL 20A History of Western Philosophy PHIL 20A History of Western Philosophy — Honors PHIL 20B History of Western Philosophy — Honors PHIL 20B History of Western Philosophy — Honors POLI 5 Political Theory I — Early Modern to Contemporary SIGN 104 American Sign Language 4 SIGN 202 American Deaf Culture SPAN 3 Intermediate Spanish		HIST	4	World History: Early Modern		LIT	25	Contemporary Mexican American
to the Present — Honors HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 — Honors HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 — Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 12 History of Mexico HIST 13 History of the African American HIST 30 History of Africa HIST 31 History of Africa HIST 35 History of Africa HIST 36 Women in American History HIST 39 California History HIST 40 History of the Mexican American HIST 39 California History HIST 40 History of the Mexican American HIST 40 History of the Mexican American HIST 40 History of the Mexican American SPAN 3 Intermediate Spanish								Literature
HIST 7 History of the United States to 1877 HIST 7H History of the United States to 1877 - Honors HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 PHIL 12H Ethics Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of Africa HIST 35 History of Africa HIST 36 Women in American History HIST 39 California History HIST 47 The Bible as Literature: New Testament PHIL 5 Introduction to Philosophy PHIL 12 Ethics PHIL 12 Ethics PHIL 15 Major World Religions PHIL 20A History of Western Philosophy PHIL 20A History of Western Philosophy PHIL 20B History of Western Philosophy PHIL		HIST	4H	World History: Early Modern		LIT	36	Introduction to Mythology
HIST 7H History of the United States to 1877 — Honors HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 PHIL 12 Ethics Honors HIST 10 History of Premodern Asia				to the Present — Honors		LIT	46	The Bible as Literature: Old Testament
HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American HIST 39 California History HIST 40 History of the Mexican American PHIL 5H Introduction to Philosophy — Honors PHIL 12 Ethics PHIL 15 Major World Religions — Honors PHIL 20A History of Western Philosophy — Honors PHIL 20B History of Western Philosophy — Honors PHIL 20B History of Western Philosophy — Honors PHIL 20B History of Western Philosophy — Honors POLI 7 Political Theory II — Early Modern to Contemporary SIGN 104 American Sign Language 4 SIGN 202 American Deaf Culture SPAN 3 Intermediate Spanish		HIST	7	History of the United States to 1877		LIT	47	The Bible as Literature: New Testament
HIST 8 History of the United States from 1865 HIST 8H History of the United States from 1865 PHIL 12H Ethics — Honors HIST 10 History of Premodern Asia PHIL 15H Major World Religions — Honors HIST 11 History of Modern Asia PHIL 20A History of Western Philosophy — Honors HIST 19 History of Mexico PHIL 20B History of Western Philosophy — Honors HIST 30 History of the African American PHIL 20B History of Western Philosophy — Honors HIST 31 History of the African American POLI 5 Political Theory I — Ancient to Modern HIST 35 History of Africa POLI 7 Political Theory II — Early Modern To Contemporary SIGN 104 American Sign Language 4 HIST 39 California History SIGN 202 American Deaf Culture HIST 40 History of the Mexican American SPAN 3 Intermediate Spanish		HIST	7H	History of the United States to 1877		PHIL	5	
from 1865 HIST 8H History of the United States from 1865 – Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American HIST 39 California History HIST 40 History of the Mexican American HIST 40 History of the Mexican American HIST 40 History of the Mexican American FHIL 12H Ethics — Honors Major World Religions — Honors PHIL 20A History of Western Philosophy PHIL 20B History of Western Philo				- Honors		PHIL	5H	
HIST 8H History of the United States from 1865 – Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American HIST 39 California History HIST 40 History of the Mexican American HIST 40 History of the United States PHIL 15 Major World Religions PHIL 20A History of Western Philosophy PHIL 20B History of Western Philos		HIST	8				. –	
from 1865 – Honors HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American HIST 39 California History HIST 40 History of the Mexican American HIST 40 History of the Mexican American HIST 40 History of the Mexican American PHIL 20A History of Western Philosophy PHIL 20B History								Ethics — Honors
HIST 10 History of Premodern Asia HIST 11 History of Modern Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American HIST 39 California History HIST 40 History of the Mexican American HIST 40 History of Premodern Asia PHIL 20A History of Western Philosophy PHIL 20B History of Western Philosophy PHIL 2		HIST	8H	History of the United States				
HIST 11 History of Modern Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American HIST 39 California History HIST 40 History of the Mexican American HIST 40 History of Mextern Philosophy HIL 20B History of Western Philosophy PHIL 20B History of Western Philosoph								
HIST 19 History of Mexico HIST 30 History of the African American 1619-1877 * POLI 5 Political Theory I — Ancient to Modern HIST 31 History of Africa HIST 35 History of Africa HIST 36 Women in American History HIST 39 California History HIST 40 History of the Mexican American PHIL 20B History of Western Philosophy PHIL 20BH								
HIST 30 History of the African American 1619-1877 * POLI 5 Political Theory I — Ancient to Modern HIST 31 History of Africa HIST 35 History of Africa HIST 36 Women in American History HIST 39 California History HIST 40 History of the Mexican American PHIL 20BH History of Western Philosophy — Honors * POLI 5 Political Theory II — Early Modern to Contemporary SIGN 104 American Sign Language 4 SIGN 202 American Deaf Culture SPAN 3 Intermediate Spanish								
HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American History HIST 39 California History HIST 40 History of the Mexican American * POLI 5 Political Theory I – Ancient to Modern to Contemporary SIGN 104 American Sign Language 4 SIGN 202 American Deaf Culture SPAN 3 Intermediate Spanish								
HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American History HIST 39 California History HIST 40 History of the Mexican American * POLI 7 Political Theory II — Early Modern to Contemporary SIGN 104 American Sign Language 4 SIGN 202 American Deaf Culture SPAN 3 Intermediate Spanish		HIST	30					
HIST 35 History of Africa to Contemporary HIST 36 Women in American History SIGN 104 American Sign Language 4 HIST 39 California History SIGN 202 American Deaf Culture HIST 40 History of the Mexican American SPAN 3 Intermediate Spanish								
HIST 36 Women in American History SIGN 104 American Sign Language 4 HIST 39 California History SIGN 202 American Deaf Culture HIST 40 History of the Mexican American SPAN 3 Intermediate Spanish					*	POLI	7	
HIST 39 California History SIGN 202 American Deaf Culture HIST 40 History of the Mexican American SPAN 3 Intermediate Spanish								
HIST 40 History of the Méxican American SPAN 3 Intermediate Spanish								
HUMA1 The Humanities SPAN 4 Continuing Intermediate Spanish							-	
		HUMA	1	The Humanities		SPAN	4	Continuing Intermediate Spanish

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) 2013-14

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:
	Macroeconomics — Honors
BUSC 1B	Principles of Economics:
	Microeconomics
BUSC 1BH	Principles of Economics:

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

Political Science POLI 1 Political Science — Honors POLI 1H

* POLI 5 Political Theory I — Ancient to Modern

* POII 7 Political Theory II — Early Modern to Contemporary

Introduction to International Relations POLI 9 POLI 10 **Environmental Politics**

POLI 25 Latino Politics in the United States POLI 35 African American Politics

PSYC 1A Introduction to Psychology

PSYC 1AH Introduction to Psychology – Honors Developmental Psychology PSYC 14

Introduction to Child Psychology PSYC 15 Abnormal Psychology PSYC 19

PSYC 25 The Psychology of Women Contemporary Social Problems SOC 1

SOC 1H Contemporary Social Problems — Honors

SOC 2 Sociology

SOC 2H Sociology — Honors Introduction to Gerontology SOC 4

SOC 5 Introduction to Criminology Introduction to Criminology — Honors SOC 5H Sociology of Ethnic Relations SOC 20

SOC 20H Sociology of Ethnic Relations – Honors SPCH 7 Intercultural Communication

SPCH 7H Intercultural Communication — Honors Interpersonal Communication SPCH 26

SPCH 26H Interpersonal Communication – Honors SPCH 30 Gateway to Communication Studies

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

ilysical Sci	ciice.
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
	the Universe
CHEM 10	Chemistry for Allied Health Majors
CHEM 20	Introductory Organic and Biochemistr
CHEMAO	Introducation to Consuel Chambiature

Introduction to General Chemistry

CHEM50 General Chemistry I CHEM50H General Chemistry I — Honors

General Chemistry II CHEM51 Elements of Physical Geography GEOG 1

Elements of Physical Geography GEOG 1H - Honors

GEOG 1L Physical Geography Laboratory GEOG 1LH Physical Geography Laboratory

- Honors Physical Geology GEOL 1 GFOL 8 Farth Science

GEOL 8H Earth Science — Honors Earth Science Laboratory GEOL 8L

GEOL 9 Environmental Geology METO 3 Weather and Atmospheric

Environment

Weather and Atmospheric METO 3L **Environment Laboratory** Introduction to Oceanography OCEA 10

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

Laboratory PHSC 3 **Energy Science**

PHYS 1 Physics PHYS 2AG General Physics

PHYS 2BG General Physics **Engineering Physics** PHYS 4A PHYS 4B **Engineering Physics**

PHYS 4C **Engineering Physics**

Biological Science:

ANAT 10A Introductory Human Anatomy ANAT 10B Introductory Human Physiology

<u>ANAT 35</u>	Human Anatomy	<u>BIOL 6</u>	Humans and the Environment
ANAT 36	Human Physiology	BIOL 6L	Humans and the Environment Laboratory
ANTH 1	Biological Anthropology	BIOL 8	Cell and Molecular Biology
ANTH 1H	Biological Anthropology — Honors	BIOL 20	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

Spanish for the Spanish Speaking ITAL 1 Elementary Italian SPAN 11

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

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

Option 1: HIST 7 (or 7H) + HIST 8 (or 8H)

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

HIST 7H	History of the United States to 1877	Amorican	Inctitutions
HIST 7	History of the United States to 1877	HIST 40	History of the Mexican American
HIST 1	History of the United States	HIST 36	Women in American History

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 Latino Politics in the United States Honors African American Politics POLI 35

History of the African American 1619-1877 HIST 30

HIST 31 History of the African American

Notes:

UC limits transfer credit for some courses. Students may review the UC Transfer Course Agreement (TCA) with an educational advisor or counselor in the Student Services Center. Students must see an educational advisor or counselor for preliminary IGETC certification. For IGETC certification, the course must be on the list during the year taken. Students from non-English speaking countries should see an educational advisor or international student counselor for language proficiency equivalences.

Transferring to California Colleges and Universities

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

- 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.

Semester Area Cl or CQ 6 semester 3 semester (Area 3 or 3 or 3 semester (Area 4 or 3 or 3 semester (Area 3 or 3 or 3 semester (Area 3 or 3 or 3 semester (Area 3 or 4 or 3 or 3 semester (Area 3 or 4 or 3 semester (Area 3 or 4 or 3 semester (Area 3 or 4 or 4 or 3 semester (Area 3 or 4	COLLEGE CREDIT FOR ADVANCED PLACEMENT (AP) TESTS								
Art (Studio) S	Exam	CSU GE Breadth Units	CSU Units	IGETC Units	UC Units				
Biology 4 semester (Area B2 and B3) 6 semester 4 semester (Area 5B with lab) 8 quarter / 5.3 semester Calculus AB ^{1,8,9} 3 semester (Area B4) 3 semester 3 semester (Area 2A) 4 quarter / 2.7 semester Chemistry 4 semester (Area B1 and B3) 6 semester 3 semester (Area 2A) 8 quarter / 5.3 semester Chemistry 4 semester (Area B1 and B3) 6 semester 4 semester (Area 5A with lab) 8 quarter / 5.3 semester Chimese Language & Culture 3 semester (Area D2) 6 semester 0 sem	Art History	3 semester (Area C1 or C2)	6 semester	3 semester (Area 3A or 3B)	8 quarter / 5.3 semester				
Calculius RC ^{1,8,9} 3 semester (Area B4) 6 semester (Area 2A) 4 quarter / 2,7 semester (Area 1A) 8 quarter / 5,3 semester (Area 1A) 8 quarter / 2,7 semester (Area 1A) 8 quarter / 3,7 semester (Area 1A) 8 quarter / 5,3 semester	Art (Studio) ⁸	N/A	3 semester	N/A	8 quarter / 5.3 semester				
Calculius RC ^{1,8,9} 3 semester (Area B4) 6 semester (Area 2A) 4 quarter / 2,7 semester (Area 1A) 8 quarter / 5,3 semester (Area 1A) 8 quarter / 2,7 semester (Area 1A) 8 quarter / 3,7 semester (Area 1A) 8 quarter / 5,3 semester	Biology	4 semester (Area B2 and B3)	6 semester	4 semester (Area 5B with lab)	8 quarter / 5.3 semester				
Chines Language & Culture 3 semester (Area B1 and B3) 6 semester 4 semester (Area SA with lab) 8 quarter /5.3 semester (Chinese Language & Culture 3 semester (Area C2) 6 semester N/A 2 quarter /5.3 semester Computer Science A1.8 N/A 3 semester N/A 2 quarter /2.7 semester N/A 4 quarter /2.7 semester Economics — Macroeconomics 3 semester (Area D2) 3 semester N/A 4 quarter /2.7 semester Economics — Microeconomics 3 semester (Area D2) 3 semester S 3 semester (Area 4B) 4 quarter /2.7 semester English — Language & Composition 3 semester (Area A2 and C2) 6 semester 3 semester (Area AB) 4 quarter /2.7 semester English — Literature & Composition 6 semester (Area A2 and C2) 6 semester 3 semester (Area A1) 8 quarter /5.3 semester Environmental Science 4 semester (Area B1 and B3) 4 semester (Area A2 and C2) 6 semester 5 semester (Area A3 band 6A) 8 quarter /5.3 semester Environmental Science 4 semester (Area C2) 6 semester 7 semester (Area A3 band 6A) 8 quarter /5.3 semester French Literature 5 3 semester (Area C2) 6 semester 7 semester (Area A3 band 6A) 8 quarter /5.3 semester (Area A2 band C2) 6 semester 7 semester (Area A3 band 6A) 8 quarter /5.3 semester 6 semester 8 semester (Area A3 band 6A) 8 quarter /5.3 semester 6 semester 9 semester (Area A3 band 6A) 8 quarter /5.3 semester 6 semester 9 semester (Area A3 band 6A) 8 quarter /5.3 semester 6 semester 9 semester (Area A3 band 6A) 8 quarter /5.3 semester 6 semester 9 semester (Area A3 band 6A) 8 quarter /5.3 semester 6 semester 9 semester (Area A4 b) 4 quarter /2.7 semester 9 semester (Area A4 b) 4 quarter /2.7 semester 9 semester (Area A4 b) 4 quarter /2.7 semester 9 semester (Area A4 b) 4 quarter /2.7 semester 9 semester (Area A4 b) 4 quarter /2.7 semester 9 semester (Area A5 band 6A) 8 quarter /5.3 semester 1 semester 9 semester (Area A5 band 6A) 8 quarter /5.3 semester 1 semester 9 semester (Area A5 band 6A) 8 quarter /5.3 semester 1 semester 9 semester (Area A5 band 6A) 8 quarter /5.3 semester 1 semester 9 semester (Area A5 band 6A) 8 quarter /5.3 semester 1 seme	Calculus AB ^{1, 8, 9}	3 semester (Area B4)	3 semester	3 semester (Area 2A)	4 quarter / 2.7 semester				
Chinese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterComputer Science A1-8N/A3 semesterN/A2 quarter / 1.3 semesterComputer Science AB1-8N/A6 semesterN/A4 quarter / 2.7 semesterComputer Science AB1-8N/A3 semesterN/A4 quarter / 2.7 semesterEconomics — Microeconomics3 semester (Area D2)3 semester3 semester (Area AB4 quarter / 2.7 semesterEconomics — Microeconomics3 semester (Area AD2)6 semester3 semester (Area AB4 quarter / 2.7 semesterEnglish — Literature & Composition86 semester (Area AD2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition86 semester (Area B1 and B3)4 semester3 semester (Area AB and 6A)8 quarter / 5.3 semesterEnglish — Literature & Composition84 semester (Area B1 and B3)4 semester3 semester (Area B1 and B3)4 semesterFrench Literature24 semester (Area C2)6 semester3 semester (Area B1 and 6A)8 quarter / 5.3 semesterFrench Literature33 semester (Area C2)6 semester3 semester (Area BB and 6A)8 quarter / 5.3 semesterFrench Literature33 semester (Area D8)3 semester3 semester (Area BB and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8 and U5 2)3 semester (Area BB and 6A)8 quarter / 5.3 semesterHistory — European3 semester (Area Q2 or D6 and U5 1)6 semester3	Calculus BC ^{1,8,9}	3 semester (Area B4)	6 semester	3 semester (Area 2A)	8 quarter / 5.3 semester				
Computer Science AI-8N/A3 semesterN/A2 quarter / 1.3 semesterComputer Science ABI-8N/A6 semesterN/A4 quarter / 2.7 semesterEconomics — Macroeconomics3 semester (Area D2)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterEconomics — Microeconomics3 semester (Area D2)3 semester3 semester (Area AB)4 quarter / 2.7 semesterEnglish — Literature & Composition83 semester (Area A2 and C2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition86 semester (Area B1 and B3)4 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnvironmental Science24 semester (Area B1 and B3)4 semester3 semester (Area AB and GA)8 quarter / 5.3 semesterFrench Literature53 semester (Area C2)6 semester3 semester (Area BB and GA)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area C2)6 semester3 semester (Area BB and GA)8 quarter / 5.3 semesterGovernment & Politics — U.S.3 semester (Area C2 or D6 and US 1)6 semester3 semester (Area BB and GA)8 quarter / 5.3 semesterHistory — European3 semester (Area C2 or D6 and US 1)6 semester3 semester (Area BB or 4F)8 quarter / 5.3 semesterHistory — World3 semester (Area C2 or D6 and US 1)6 semester3 semester (Area BB or 4F)8 quarter / 5.3 semesterHistory — World3 semester (Area C2 or D6 and US 1)6 semester3 semester (Area BB and GA)8 quarter / 5.3 semester <td>Chemistry²</td> <td>4 semester (Area B1 and B3)</td> <td>6 semester</td> <td>4 semester (Area 5A with lab)</td> <td>8 quarter / 5.3 semester</td>	Chemistry ²	4 semester (Area B1 and B3)	6 semester	4 semester (Area 5A with lab)	8 quarter / 5.3 semester				
Computer Science AB1-8N/A6 semesterN/A4 quarter / 2.7 semesterEconomics — Macroeconomics3 semester (Area D2)3 semester3 semester (Area AB)4 quarter / 2.7 semesterEconomics — Microeconomics3 semester (Area D2)3 semester3 semester (Area AB)4 quarter / 2.7 semesterInglish — Language & Composition*3 semester (Area A2)6 semester3 semester (Area AB)8 quarter / 5.3 semesterEnglish — Literature & Composition*6 semester (Area A2 and C2)6 semester3 semester (Area AB)8 quarter / 5.3 semesterEnvironmental Science*4 semester (Area B1 and B3)4 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterFrench Literature*3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGerman Language*3 semester (Area D8)3 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8)3 semester3 semester (Area AB)4 quarter / 2.7 semesterGovernment & Politics — U.S.3 semester (Area Q or D6)6 semester3 semester (Area B)4 quarter / 2.7 semesterHistory — European3 semester (Area Q or D6)6 semester3 semester (Area B)4 quarter / 5.3 semesterHistory — World3 semester (Area Q or D6)6 semester3 semester (Area B)8 quarter / 5.3 semesterHuman Geography3 semester (Area C2)6 semester3 semester (Area B)4 quarter / 2.7 semesterHuman Geography3 semester (Area C2)<	Chinese Language & Culture	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
Economics — 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 — Language & Composition®3 semester (Area A2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition®6 semester (Area A2 and C2)6 semester3 semester (Area 1A or 3B)8 quarter / 5.3 semesterEnvironmental Science³4 semester (Area B1 and B3)4 semester3 semester (Area A3 with lab)4 quarter / 2.7 semesterFrench Language⁴3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterFrench Literature⁵3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8)3 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — U.S.3 semester (Area D8 and US 2)3 semester3 semester (Area 4H)4 quarter / 2.7 semesterHistory — European3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHistory — World3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHuman Geography3 semester (Area D5)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterHuman Geography3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3	Computer Science A ^{1,8}	N/A	3 semester	N/A	2 quarter / 1.3 semester				
Economics — Microeconomics3 semester (Area D2)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterEnglish — Language & Composition®3 semester (Area A2)6 semester3 semester (Area 1A)8 quarter / 5.3 semesterEnglish — Literature & Composition®6 semester (Area A2 and C2)6 semester3 semester (Area 1A or 3B)8 quarter / 5.3 semesterEnvironmental Science³4 semester (Area B1 and B3)4 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterFrench Language⁴3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterFrench Literature⁵3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGerman Language⁴3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — U.S.3 semester (Area D8)3 semester3 semester (Area 4H)4 quarter / 2.7 semesterGovernment & Politics — U.S.3 semester (Area C2 or D6)6 semester3 semester (Area 4H)4 quarter / 2.7 semesterHistory — European3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHistory — World3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHuman Geography3 semester (Area D5)3 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterLatin — Vergil3 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semester <td>Computer Science AB^{1,8}</td> <td>N/A</td> <td>6 semester</td> <td>N/A</td> <td>4 quarter / 2.7 semester</td>	Computer Science AB ^{1,8}	N/A	6 semester	N/A	4 quarter / 2.7 semester				
English — Language & Composition® 3 semester (Area A2) 6 semester English — Literature & Composition® 6 semester (Area A2 and C2) 6 semester 3 semester (Area 1A or 3B) 8 quarter / 5.3 semester Environmental Science® 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester French Language® 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester French Literature® 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester French Literature® 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester German Language® 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Government & Politics — Comparative 3 semester (Area D8) 3 semester (Area 3B 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 — European 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 Human Geography 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area C2) 6 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 Latin — Urergil 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Latin — Urergil 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 4 quarter / 2.7 semester Latin — Urergil 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 4 quarter / 2.7 semester Latin — Urergil 3 semester (Area B1 and B3) 4 semester (Area 3B and 6A) 4 quarter / 2.7 semester Physics C — Mechanics A semester (Area B1 and B3) 4 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Mechanics A semester (Area B1 and B3) 4 semester (Area 5A w	Economics — Macroeconomics	3 semester (Area D2)	3 semester	3 semester (Area 4B)	4 quarter / 2.7 semester				
English — Literature & Composition® 6 semester (Area A2 and C2) 6 semester 3 semester (Area 1A or 3B) 8 quarter / 5.3 semester French Language⁴ 3 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester French Literature⁵ 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester German Language⁴ 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester German Language⁴ 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Government & Politics — Comparative 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Government & Politics — U.S. 3 semester (Area D8) 3 semester (Area 3B and G4) 8 quarter / 5.3 semester Government & Politics — U.S. 3 semester (Area D8 and US 2) 3 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Government & Politics — U.S. 3 semester (Area D8 and US 2) 3 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester History — U.S. 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 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 or 4F) 8 quarter / 5.3 semester Japanese Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Japanese Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B or AF) 8 quarter / 5.3 semester Japanese Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Japanese Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Physics C — Mechanics R 4 semester (Area B and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism R 4 semester (Area B and B3) 4	Economics — Microeconomics	3 semester (Area D2)	3 semester	3 semester (Area 4B)	4 quarter / 2.7 semester				
Environmental Science34 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterFrench Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterFrench Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGerman Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterGovernment & Politics — U.S.3 semester (Area Band US 2)3 semester3 semester (Area 4B)4 quarter / 2.7 semesterHistory — European3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHistory — World3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHuman Geography3 semester (Area C2)6 semester3 semester (Area 4B)4 quarter / 2.7 semesterHuman Geography3 semester (Area C2)6 semester3 semester (Area 4B)4 quarter / 2.7 semesterJapanese Language & Culture63 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterJapanese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 2.7 semesterJapanese Language & Culture63 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 2.7 semester	English — Language & Composition ⁸	3 semester (Area A2)	6 semester	3 semester (Area 1A)	8 quarter / 5.3 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 D8) 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Government & Politics — Comparative Government & Politics — U.S. 3 semester (Area D8 and US 2) 3 semester (Area 4H) 4 quarter / 2.7 semester History — European 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — U.S. 3 semester (Area C2 or D6 and US 1) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area C2) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Halian Language & Culture ⁶ 3 semester (Area C2) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Italian Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Italian Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Latin — Vergil 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Physics C — Mechanics ^{7,8} 4 semester (Area B1 and B3) 4 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Mechanics ^{7,8} 4 semester (Area B1 and B3) 4 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Mechanics ^{7,8} 4 semester (Area B1 and B3) 4 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Mechanics ^{7,8} 4 semester (Area B1 and B3) 4 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Mechanics ^{7,8} 4 semester (Area B1 and B3) 4 semester (Area 3B and 6A) 8 quarter / 5.3 semester Physics C — Mechanics ^{7,8} 4 semester (Area B1 and B3) 4 semester (Area 3B and 6A)	English — Literature & Composition ⁸	6 semester (Area A2 and C2)	6 semester	3 semester (Area 1A or 3B)	8 quarter / 5.3 semester				
French Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGerman Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8)3 semester3 semester (Area 4H)4 quarter / 2.7 semesterGovernment & Politics — U.S.3 semester (Area D8 and US 2)3 semester3 semester (Area 4H)4 quarter / 2.7 semesterHistory — European3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHistory — World3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHuman Geography3 semester (Area C2)6 semester3 semester (Area 4B)4 quarter / 5.3 semesterHuman Geography3 semester (Area C2)6 semester3 semester (Area 4B)4 quarter / 5.3 semesterHajapanese Language & Culture63 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterJapanese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterLatin — Vergil3 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterLatin — Literature53 semester (Area C2)6 semesterN/A8 quarter / 5.3 semesterHysics G — Mechanics7.84 semester (Area B1 and B3)4 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Magnetism7.8 </td <td>Environmental Science³</td> <td>4 semester (Area B1 and B3)</td> <td>4 semester</td> <td>3 semester (Area 5A with lab)</td> <td>4 quarter / 2.7 semester</td>	Environmental Science ³	4 semester (Area B1 and B3)	4 semester	3 semester (Area 5A with lab)	4 quarter / 2.7 semester				
German Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterGovernment & Politics — Comparative3 semester (Area D8)3 semester3 semester (Area 4H)4 quarter / 2.7 semesterGovernment & Politics — U.S.3 semester (Area D8 and US 2)3 semester (Area 4H)4 quarter / 2.7 semesterHistory — European3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHistory — World3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHuman Geography3 semester (Area D5)3 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHuman Geography3 semester (Area C2)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterItalian Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterJapanese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterLatin — Vergil3 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterLatin — Literature53 semester (Area C2)6 semesterN/A8 quarter / 5.3 semesterMusic Theory5,8,103 semester (Area B1 and B3)6 semesterN/A8 quarter / 5.3 semesterPhysics C — Mechanics7,84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7,84 semester (Area B1 a	French Language ⁴	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
Government & Politics — Comparative Government & Politics — U.S. 3 semester (Area D8 and US 2) 3 semester History — European 3 semester (Area C2 or D6) 4 semester History — U.S. 3 semester (Area C2 or D6) 5 semester History — World 3 semester (Area C2 or D6) 5 semester History — World 3 semester (Area C2 or D6) 5 semester History — World 3 semester (Area C2 or D6) 5 semester History — World 3 semester (Area D8) 3 semester (Area B8 or 4F) 4 quarter / 2.7 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area B8 or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area D8) 3 semester (Area B8 or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area D8) 3 semester (Area B8 or 4F) 8 quarter / 5.3 semester History — World 4 quarter / 2.7 semester Human Geography 3 semester (Area D8) 3 semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB or 4F) 8 quarter / 5.3 semester A semester (Area BB and 6A) 8 quarter / 5.3 semester A semester (Area BB and 6A) 8 quarter / 5.3 semester A semester (Area BB and 6A) 4 quarter / 2.7 semester A semester (Area BB and 6A) 4 quarter / 2.7 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester A semester (Area BB and BB) 4 semester (Ar	French Literature ⁵	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
Government & Politics — U.S. 3 semester (Area D8 and US 2) 3 semester (Area 4H) 4 quarter / 2.7 semester History — European 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — U.S. 3 semester (Area C2 or D6 and US 1) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area D5) 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area D5) 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Halian Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Halian Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Latin — Vergil 3 semester (Area C2) 3 semester (Area 3B and 6A) 8 quarter / 2.7 semester Latin — Literature 5 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 4 quarter / 2.7 semester Music Theory 5.8, 10 3 semester (Area B1 and B3) 6 semester (Area 5A with lab) 8 quarter / 5.3 semester Physics C — Mechanics 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area B1 and B3) 4 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area B1 and B3) 4 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area B1 and B3) 4 semester (Area 3B and 6A) 8 quarter	German Language ⁴	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
History — European 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — U.S. 3 semester (Area C2 or D6 and US 1) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area D5) 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area D5) 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Halian Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester Latin — Vergil 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 Music Theory 5.8, 10 3 semester (Area B1 and B3) 6 semester (Area 5A with lab) 8 quarter / 5.3 semester Physics C — Mechanics 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 5A with lab) 4 quarter / 2.7 semester Physics C — Magnetism 7.8 4 semester (Area B1 and B3) 4 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 6 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 6 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 6 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 6 semester (Area 3B and 6A) 8 quarter / 5.3 semester	Government & Politics — Comparative	3 semester (Area D8)	3 semester	3 semester (Area 4H)	4 quarter / 2.7 semester				
History — U.S. 3 semester (Area C2 or D6 and US 1) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester (History — World 3 semester (Area C2 or D6) 6 semester 3 semester (Area 3B or 4F) 8 quarter / 5.3 semester Human Geography 3 semester (Area D5) 3 semester (Area 4E) 4 quarter / 2.7 semester Italian Language & Culture 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 4 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester (Area C2) 3 semester (Area 3B and 6A) 4 quarter / 2.7 semester (Area C2) 4 semester (Area C2) 5 semester (Area C2) 4 semester (Area C2) 4 semester (Area C2) 4 semester (Area C2) 4 semester (Area C2) 6 semester (Area C2) 8 quarter / 5.3 semester (Area AR) 4 quarter / 5.3 semester (Area C2) 8 semester (Area AR) 4 quarter / 2.7 semester (Area C2) 8 semester (Area AR) 4 quarter / 2.7 semester (Area C2) 8 semester (Area AR) 4 quarter / 2.7 semester (Area C2) 8 semester (Area AR) 4 quarter / 2.7 semester (Area C2) 8 semester (Area AR) 8 quarter / 5.3 semester (Area C2) 8 semester (Area AR) 8 quarter / 5.3 semester (Area C2) 8 quarter / 5.3 semester (Area AR) 8 quarter / 5.3 semester (Area C2) 8 quarter / 5.3 semester (Area AR) 8 quarter / 5.3 semester (Area C2) 8 quarter / 5.3 semester (Area AR) 8 quarter / 5.3 semester (Area C2) 8 quarter / 5.3 semester (Area AR) 8 quarter / 5.3 semester (Area C2) 8 quarter / 5.3 semester (Area AR) 8 quarter / 5.3 semester (Area C2) 8 quarter / 5.3 semester (Area AR) 8 q	Government & Politics — U.S.	3 semester (Area D8 and US 2)	3 semester	3 semester (Area 4H)	4 quarter / 2.7 semester				
History — World3 semester (Area C2 or D6)6 semester3 semester (Area 3B or 4F)8 quarter / 5.3 semesterHuman Geography3 semester (Area D5)3 semester3 semester (Area 4E)4 quarter / 2.7 semesterItalian Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterJapanese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterLatin — Vergil3 semester (Area C2)3 semester (Area 3B and 6A)4 quarter / 2.7 semesterLatin — Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterMusic Theory5.8,103 semester (Area B1 and B3)6 semesterN/A8 quarter / 5.3 semesterPhysics B7.84 semester (Area B1 and B3)4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	<u> History — European</u>	3 semester (Area C2 or D6)	6 semester	3 semester (Area 3B or 4F)	8 quarter / 5.3 semester				
Human Geography3 semester (Area D5)3 semester3 semester (Area 4E)4 quarter / 2.7 semesterItalian Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterJapanese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterLatin — Vergil3 semester (Area C2)3 semester (Area 3B and 6A)4 quarter / 2.7 semesterLatin — Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterMusic Theory5.8,103 semester (Area C1)6 semesterN/A8 quarter / 5.3 semesterPhysics B7.84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7.84 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 Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	History — U.S.	3 semester (Area C2 or D6 and US 1)	6 semester	3 semester (Area 3B or 4F)	8 quarter / 5.3 semester				
Italian Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterJapanese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterLatin — Vergil3 semester (Area C2)3 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterLatin — Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterMusic Theory5,8,103 semester (Area B1 and B3)6 semesterN/A8 quarter / 5.3 semesterPhysics B7,84 semester (Area B1 and B3)4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7,84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7,84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 4H)4 quarter / 2.7 semesterSpanish Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	<u>History — World</u>	3 semester (Area C2 or D6)	6 semester	3 semester (Area 3B or 4F)	8 quarter / 5.3 semester				
Japanese Language & Culture3 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterLatin — Vergil3 semester (Area C2)3 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterLatin — Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterMusic Theory5.8,103 semester (Area C1)6 semesterN/A8 quarter / 5.3 semesterPhysics B7.84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPsychology3 semester (Area D9)3 semester3 semester (Area 4H)4 quarter / 2.7 semesterSpanish Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	Human Geography	3 semester (Area D5)	3 semester	3 semester (Area 4E)	4 quarter / 2.7 semester				
Latin — Vergil3 semester (Area C2)3 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterLatin — Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterMusic Theory5.8,103 semester (Area C1)6 semesterN/A8 quarter / 5.3 semesterPhysics B7.84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7.84 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 Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	<u> Italian Language & Culture</u> 6	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
Latin — Literature53 semester (Area C2)6 semester3 semester (Area 3B and 6A)4 quarter / 2.7 semesterMusic Theory5,8,103 semester (Area B1 and B3)6 semesterN/A8 quarter / 5.3 semesterPhysics B7,84 semester (Area B1 and B3)4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7,84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7,84 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 Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	Japanese Language & Culture	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
Music Theory5,8,103 semester (Area C1)6 semesterN/A8 quarter / 5.3 semesterPhysics B7,84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7,84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7,84 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 Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	<u> Latin — Vergil</u>	3 semester (Area C2)	3 semester	3 semester (Area 3B and 6A)	4 quarter / 2.7 semester				
Physics B7.84 semester (Area B1 and B3)6 semester4 semester (Area 5A with lab)8 quarter / 5.3 semesterPhysics C — Mechanics7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7.84 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 Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester		3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	4 quarter / 2.7 semester				
Physics C — Mechanics7.84 semester (Area B1 and B3)4 semester3 semester (Area 5A with lab)4 quarter / 2.7 semesterPhysics C — Magnetism7.84 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 Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	Music Theory ^{5, 8, 10}	3 semester (Area C1)	6 semester	N/A	8 quarter / 5.3 semester				
Physics C — Magnetism7.84 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 Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	Physics B ^{7,8}	4 semester (Area B1 and B3)	6 semester	4 semester (Area 5A with lab)	8 quarter / 5.3 semester				
Psychology3 semester (Area D9)3 semester3 semester (Area 4l)4 quarter / 2.7 semesterSpanish Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semester	Physics C — Mechanics ^{7,8}	4 semester (Area B1 and B3)	4 semester	3 semester (Area 5A with lab)	4 quarter / 2.7 semester				
Spanish Language43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 semesterSpanish Literature43 semester (Area C2)6 semester3 semester (Area 3B and 6A)8 quarter / 5.3 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 ⁴ 3 semester (Area C2) 6 semester 3 semester (Area 3B and 6A) 8 quarter / 5.3 semester	<u>Psychology</u>	3 semester (Area D9)	3 semester	3 semester (Area 41)	4 quarter / 2.7 semester				
	Spanish Language⁴	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
Statistics 3 semester (Area B4) 3 semester (Area 2) 4 quarter / 2.7 semester	Spanish Literature⁴	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester				
1) If a definition of the second of the seco		3 semester (Area B4)			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.
- 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 of GE Breadth. Tests after Fall of 2009 may apply 4 units to area B1+B3.
- 8) At all UC Campuses, a maximum of 8 quarter units are allowed in each of the following areas: Art (Studio), English, Mathematics, Music and Physics. A maximum of 4 quarter units are allowed in Computer Science.
- 9) Students who take the Calculus BC examination and earn a subscore of 3 or higher on the Calculus AB portion will receive UC credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination
- 10) The UC will grant credit for the full Music Theory exam. Students who earn only a subscore will not receive exam credit.



SECTION

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 Counseling	125	CISN	Computer Information Systems: Networking	1/10	LATN	Latin	195	
ADJU	Administration of Justice: Law Enforcement		CISP	Computer Information Systems: Programming		LCOM	Learning Communities		
AERO	Aeronautics		CISS	Computer Information Systems: Security		LEAD	Leadership		
AGAG	Agriculture: General Subjects		CISW	Computer Information Systems: Web Applications		LERN	Learning Assistance		
AGAN	Agriculture: Animal Science — General		CISX	Computer Information Systems: Auxiliary		LIBR	Library & Instructional Media		
AGFR	Agriculture: Forestry, Conservation		CNET	Computer and Networking Technology		LIT	English: Literature		
AGHE	Agriculture: Animal Health Technology		CORS	Correctional Sciences		MATH	Mathematics		
AGLI	Agriculture: Livestock Production		COUN	Counseling		MEDI	Medical Terminology		
AGOR	Agriculture: Ornamental Horticulture		CSCI	Computer Science		MENT	Mental Health/Psychiatric Technician		
AGPE	Agriculture: Pet Science		DN-T	Dance: Theory		METO	Meteorology		
AIRC	Air Conditioning & Refrigeration		DNCE	Dance: Activity		MFG	Manufacturing Technology		
AIRM	Aircraft Maintenance Technology		DSPS	Disabled Students		MICR	Microbiology		
AIRT	Air Traffic Control		EDUC	Education		MUS	Music		
AMLA	American Language		EDT	Engineering Design Technology		NF	Nutrition & Food		
ANAT	Anatomy & Physiology		ELEC	Electronics		NURS	Nursing		
ANTH	Anthropology		EMS	Emergency Medical Service		OCEA	Oceanography		
ARAB	Arabic		EMT	Emergency Medical Technician		PAP	Physician Assistant Preparatory		
ARCH	Architectural Technology		ENGL	English: Composition		PHIL	Philosophy		
ANIM	Art: Animation		ENGR	Engineering		PHOT	Photography		
ARTB	Art: Basic Studio Arts		EST	Electronics Systems Technology		PHSC	Physical Science		
ARTC	Art: Graphic Design and Illustration		FCS	Family & Consumer Sciences		PHYS	Physics		
ARTG	Art: Gallery & Professional Practices		FASH	Fashion Merchandising & Design		PLGL	Business: Paralegal		
ARTZ	Art: Special Studio Arts		FIRE	Fire Technology		POLI	Political Science		
ARTS	Art: Three-Dimensional Studio Arts		FRCH	French		PSYC	Psychology		
ARTD	Art: Two-Dimensional Studio Arts		GEOG	Geography		R-TV	Radio & Television		
AHIS	Art History		GEOL	Geology		RAD	Radiologic Technology		
ASTR	Astronomy		GERM	German		READ	Reading		
BIOL	Biology		HIST	History		RESD	Respiratory Therapy		
BTNY	Botany		HRM	Hospitality & Restaurant Management		SIGN	Sign Language & Interpreting		
BUSA	Business: Accounting		HT	Histotechnology		SL	Service Learning		
BUSC	Business: Economics		HUMA	Humanities		SOC	Sociology		
BUSL	Business: Law		ID	Interior Design		SPAN	Spanish		
BUSM	Business: Management		IDE	Industrial Design Engineering		SPCH	Speech		
BUSO	Business: Business Communications		INSP	Inspection & Estimating, Building		STDY	Study Techniques		
BUSR	Business: Real Estate		ITAL	Italian		SURV	Surveying		
BUSS	Business: Sales, Merchandising & Marketing		JAPN	Japanese		TECH	Technology-Related Courses		
CHEM	Chemistry		JOUR	Journalism		THTR	Theater Arts		
CHIN	Chinese		KIN	Kinesiology: Theory		TUTR	Tutor Training		
CHLD	Child Development		KIN-A	Kinesiology: Aquatics		WELD	Welding		
GRAP	Computer Graphics		KIN-F	Kinesiology: Fitness					
CISB	Computer Information Systems: Beginning		KIN-I	Kinesiology: Individual					
CISD	Computer Information Systems: Database		KIN-L	Kinesiology: Adaptive					
CISI	Computer Information Systems: Information Processing		KIN-S	Kinesiology: Team Sport					
CISM	Computer Information Systems: Management		KIN-X	Kinesiology: Athletics					
CISITI	comparer information systems, munugementum	1 10		25.0.097.7.4.11.6.6.5.11.11.11.11.11.11.11.11.11.11.11.11.1	17.2				

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 3 Units Justice System

Degree Applicable, CSU

54 hours lecture

Due process in criminal proceedings from pre-arrest through trial and appeal using statutory law and legal precedent.

■ ADJU 3 — Concepts of Criminal Law 3 Units Degree Applicable, CSU, UC

54 hours lecture

Classification of crime, elements of crimes, common and statutory law, and evidence as observed through the study of case law decisions by state and federal courts.

■ ADJU 4 — Legal Aspects of Evidence 3 Units Degree Applicable, CSU

54 hours lecture

Criminal evidence, including admissibility, witness competency, privileged communication, hearsay, and collection and preservation of evidence.

■ ADJU 5 — Community Relations

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population.

■ ADJU 6 — Concepts of Enforcement Services 3 Units Degree Applicable

54 hours lecture

Responsibilities, techniques and methods of police patrol with emphasis on the knowledge required in handling common police occurrences.

■ ADJU 13 — Concepts of Traffic Services 3 Units Degree Applicable

54 hours lecture

Traffic management, collision reconstruction, collision factors including law violations and human factors, collision evidence, traffic enforcement techniques and traffic management specialization. Emphasis is placed on service to the motoring public.

■ ADJU 20 — Principles of Investigation

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Investigation; 4th Amendment issues including crime scene search and recording; collection and preservation of physical evidence; modus operandi; suspect profiling scientific aids; sources of information; use of informants; interviews and interrogation; follow up and case preparation

■ ADJU 38 — Narcotics Investigation

3 Units
Degree Applicable

3 Units

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Investigation and arrest techniques for drug enforcement. Drug effects, use of informants, constitutional 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

3 Units

Prerequisite: Eligibility for ENGL 1A

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

■ ADJU 74 — Vice Control

Degree Applicable

3 Units

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Code and case law dealing with vice detection and suppression, apprehension and prosecution of violators, gambling, prostitution, and sex crimes.

■ ADJU 90 — Work Experience in Administration 1 to 4 Units of Justice

Not Degree Applicable

(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Prior approval by ADJU department faculty and compliance with Work Experience regulations as designated in the College Catalog

Provides actual on-the-job experience at an approved work site which is related to classroom instruction in Administration of Justice. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. If this is a volunteer program on or off campus, a minimum number hours per month will be required as part of the 60 hour total.

AERONAUTICS

■ AERO 100 — Primary Pilot Ground School 4 Units

Degree Applicable, CSU

72 hours lecture

Formerly AERO 23.

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 knowledge examination and FAA Air Traffic Control Basics.

■ AERO 102 — Aviation Weather

3 Units

Degree Applicable, CSU

54 hours lecture

Formerly AERO 26.

Weather elements, atmosphere, weather mechanics, weather disturbances, weather analysis and forecasts. Evaluation of aviation weather reports and forecasts.

■ AERO 104 — Federal Aviation Regulations 2 Units

Degree Applicable, CSU

36 hours lecture

Formerly AERO 29.

Federal Aviation Regulations (FAR), pertaining to pilot certification, aircraft maintenance, general operating rules; air traffic control practices and procedures; reporting of aircraft accidents.

■ AERO 150 — Commercial Pilot Ground School

Degree Applicable, CSU

3 Units

54 hours lecture

Advisory: AERO 23 or AERO 100

Formerly AERO 25.

Federal Aviation Administration (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 152 — Air Transportation

3 Units Degree Applicable, CSU

54 hours lecture

Formerly TRAN 17.

Survey course of the air transportation industry. Topics include an introduction to air transportation, structure and economics of the airlines, general aviation operations, and aviation career planning.

■ AERO 200 — Aviation Safety and Human Factors

n Factors 3 Units
Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23 or AERO 100

Formerly AERO 27.

Evaluation and analysis of factors leading to aircraft accidents as it relates to the environment of the pilot and air traffic controller.

■ AERO 202 — Aircraft and Engines

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 100 or AERO 23

Formerly AERO 28.

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 206L — Flight Simulator Laboratory

.5 Unit Degree Applicable

(May be taken for Pass/No Pass only)

(May be taken for Pass/No Pass only 27 hours lab

Advisory: AERO 25 or AERO 150

Formerly AERO 41.

Flight simulator training in the iGATE Computer-based Aviation Training (PC-ATD) simulator in preparation for the instrument rating. Full and partial panel airwork, holding patterns, VHF Omnidirectional Range (VOR) and Automatic Directional Finder (ADF) orientation, and instrument approach procedures.

■ AERO 250 — Navigation

3 Units Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23 or AERO 100

Formerly AERO 24.

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 252 — Instrument Ground School

I 3 Units
Degree Applicable, CSU

54 hours lecture

Advisory: (AERO 23 or AERO 100) and (AERO 26 or AERO 102)

Formerly AERO 30.

Instrument Flight Rules (IFR), 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 256 — Flight Instructor Ground School

3 Units Degree Applicable

. Degi

54 hours lecture

Advisory: (AERO 25 or AERO 150) and (AERO 30 or AERO 252)

Formerly AERO 58.

Basic teaching principles, and application of those principles in teaching student pilots. Analysis of flight maneuvers and instruments. Prepares students for FAA knowledge tests for Flight Instructors.

■ AERO 258 — Multi-Engine Turbine Aircraft Operations 3 Units Degree Applicable

54 hours lecture

Advisory: (AERO 23 or AERO 100) and (AERO 30 or AERO 252)

Formerly AERO 45A.

Design features and operational characteristics of a multiengine turbine aircraft utilized in regional airline operations and corporate aviation, with emphasis on aircraft and engine systems. Off-campus trips maybe required.

AGRICULTURE: ANIMAL HEALTH TECHNOLOGY

■ AGHE 54 — Veterinary Office Procedures

es 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

al 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

Prereauisite: 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 for Pass/No Pass only)

75 to 150 hours lab

This course is designed to provide Registered Veterinary Technician majors with actual on-the-job experience at an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester.

■ AGHE 84B — Applied Animal Health Procedures 1 Unit Degree Applicable

54 hours lab

A field study course that emphasizes practical experience in applied clinical procedure and techniques, including treatments, preventive health care and minor surgical procedures with school owned 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

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. 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

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

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

Principles 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. Field trips are required.

AGRICULTURE: GENERAL SUBJECTS

■ AGAG 1 — Food Production, Land Use and Politics 3 Units
- A Global Perspective

Degree Applicable, CSU, UC

54 hours lecture

Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture.

■ AGAG 59 — Work Experience in Agriculture

1 to 4 Units Degree Applicable

(May be taken 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.

■ AGAG 91 — Agricultural Calculations

3 Units

2 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

Degree Applicable, CSU

(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.

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

4 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

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

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. Field trips required.

■ AGLI 18 — Horse Ranch Management

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: AGLI 16

Skills and procedures used in the management of an equine business. Includes business plans and record keeping, staff and financial management, horse care and training, and farm design for a variety of horse operations.

■ AGLI 19 — Horse Hoof Care

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

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

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. Field trip required.

■ AGLI 34 — Livestock Judging and Selection

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

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, growth habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants. groundcovers and vines adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists.

■ AGOR 30 — Ornamental Plants 3 Units - Trees and Woody Shrubs

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Identification, growth habits, culture and ornamental use of landscape trees and shrubs adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) 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 3 Units **Equipment Operations**

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

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

3 Units

Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Design and 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

Construction techniques and tools used in landscaping with construction projects that include surveying techniques, utilities (gas, water, and electricity), woodworking, and masonry.

3 Units ■ AGOR 72 — Landscape Hardscape Applications

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 hardscape featured in the landscape. Estimation and installation of fences, walks, planters, patios, lighting, barbecues, gazebos, decks, ponds, spas, fountains and pools. Students will gain hands-on experience in the laboratory activities.

■ AGOR 73 — Landscaping Laws, Contracting, 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 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.)

AGRICULTURE: PET SCIENCE

■ AGPE 70 — Pet Shop Management

3 Units Degree Applicable

54 hours lecture

Pet shop operations and the economic aspects of the pet industry. 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

54 hours lecture

Advisory: Eligibility for ENGL 68

Care and management of cats including 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: Eliaibility for ENGL 68

Care and keeping of marine and freshwater aquarium fishes. plants, and invertebrates. Guidance on setting up aquariums. choosing compatible species, feeding, health care, breeding and raising fish.

■ AGPE 74 — Reptile Management

2 Units

Degree Applicable

36 hours lecture

Advisory: Eligibility for ENGL 68

Care and 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 3 Units

Degree Applicable

54 hours lecture

Cage and aviary birds marketed in the wholesale and retail pet trade. Identification, nutrition, breeding, disease prevention and control, aviary construction, 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

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 20

Principles of mechanical air conditioning and refrigeration based on operating characteristics of working equipment and the interpretation of the pressure-enthalpy chart. 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

Advisories: 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

Advisories:

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 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.

AIR TRAFFIC CONTROL

■ AIRT 151 — Aircraft Recognition and Performance 3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23 or AERO 100

Formerly AIRT 41.

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 201 — Terminal Air Traffic Control

3 Units Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23 or AERO 100 and AIRT 41 or AIRT 151

Formerly AIRT 42A.

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 201L — Air Traffic Control Laboratory

1 Unit Degree Applicable

54 hours lab

Advisorv: AERO 100 Formerly AIRT 51.

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 203 — Enroute Air Traffic Control

3 Units Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23 or AERO 100 and AIRT 41 or AIRT 151

Formerly AIRT 42B.

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 203L — Enroute Radar Laboratory

1 Unit

Degree Applicable

54 hours lab Advisory: AERO 100

Formerly AIRT 55.

Simulation of an air traffic control radar facility concentrating on air route traffic control, and approach and departure procedures using appropriate phraseology, flight progress strip markings and radar separation standards.

■ AIRT 251 — Air Traffic Control Team Skills

1.5 Units Degree Applicable, CSU

27 hours lecture

Advisory: AIRT 201 or AIRT 42A

Formerly AIRT 43.

Leadership skills for aviation professionals, with emphasis on FAA Crew Resource Management. This course will introduce students to the skills required to work in an aviation group environment. Students will be able to identify personality types and temperaments, analyze skills necessary to manage and improve individual performance, work effectively in the team environment, and recognize human factors that affect air traffic control. identify "threat and error" countermeasures.

■ AIRT 253 — Work Experience in Air Traffic Control

1 Unit Degree Applicable

(May be taken for Pass/No Pass only)

60 hours lab

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

Formerly AIRT 47.

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.

AIRCRAFT MAINTENANCE TECHNOLOGY

■ AIRM 65A — Aircraft Powerplant **Maintenance Technology**

Degree Applicable, CSU

13 Units

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: Reciprocating and Turbine**

Degree Applicable, CSU

108 hours lecture

376 hours lab

Prerequisite: AIRM 65A or (AIRM 95A and AIRM 95B and AIRM 96A and AIRM 96B)

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

■ AIRM 66A — Aircraft Airframe Maintenance Structures

13 Units

Degree Applicable, CSU

108 hours lecture

376 hours lab

This course is approved by the Federal Aviation Administration FAA and required for all Aircraft Powerplant and Airframe Maintenance Technology majors. Topics span aerodynamics. design theory, construction, inspection, maintenance, repair and alteration of aircraft airframe structures.

■ AIRM 66B — Airframe Maintenance Technology 13 Units Degree Applicable, CSU

108 hours lecture

376 hours lab

Prerequisite: AIRM 66A OR (AIRM 90A and AIRM 90B and AIRM 91A and AIRM 91B)

Airframe systems and components. Approved and required for the Federal Aviation Administration (FAA) and required airframe certification and the Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 70A — Aircraft Maintenance Electricity and Electronics

Degree Applicable

3 Units

36 hours lecture

71 hours lab

Advisory: AIRM 71

Electrical theory, series and parallel circuits, batteries, and electrical measuring instruments. Required for Federal Aviation Administration (FAA) certification.

■ AIRM 70B — Aircraft Maintenance Electricity 3 Units and Electronics

Degree Applicable

36 hours lecture

71 hours lab

Advisory: AIRM 70A and AIRM 71

Principles of alternating current electricity with emphasis on components and circuits. Required for FAA certification.

■ 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 — Aircraft Materials and Processes 1.5 Units

Degree Applicable

18 hours lecture

36 hours lab

Advisory: AIRM 71 AND AIRM 73

Part 147 Federal Aviation Administration (FAA) approved course covering aviation materials, non-destructive testing, basic heat-treating and machining.

■ AIRM 73 — Aircraft Welding

1.5 Units

Degree Applicable

18 hours lecture 36 hours lab

Advisory: AIRM 71 or AIRM 72

Theory and techniques of gas and inert gas welding used in aircraft construction and repair. Required for Federal Aviation Administration (FAA) airframe and powerplant certification.

■ AIRM 74 — Aircraft Maintenance Technology - Work Experience

Degree Applicable

2 Units

(May be taken for Pass/No Pass only)

120 to 150 hours lab

Prerequisite: AIRM 65A and AIRM 65B or AIRM 66A and AIRM 66B Combines aircraft maintenance experience in addition to classroom instruction for college credit. Two units of credit will be earned as a result of 120 unpaid or 150 paid work hours. The employer/evaluator will have the student perform aircraft maintenance work under direct supervision at a maintenance facility.

■ AIRM 80 — Lab Studies in Aircraft Maintenance Technology

.5 to 1 Unit

Degree Applicable

(May be taken 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.

■ AIRM 90A — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

71 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
A Federal Aviation Administration (FAA) approved course covering aircraft flight, flight control and construction methods and procedures

■ AIRM 90B — Airframe Maintenance Technology: 3 Units Structure and Design

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: AIRM 90A or AIRM 66B

Aircraft structural designs, station numbers, aviation nomenclature and definitions. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 91A — Airframe Maintenance Technology 3 Units Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: (AIRM90A and AIRM 90B) or AIRM 66B

Aircraft wood structures, 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: Systems 3 Units Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: (AIRM 92A and AIRM 92B) or AIRM 66A

Federal Aviation Administration (FAA) approved course covering aircraft cabin heating and cooling, communication and navigation systems, and ice and rain control systems in small and large aircraft.

■ AIRM 93B — Airframe Maintenance Technology: 3 Units Fire Suppression

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: (AIRM 92A and AIRM 92B and AIRM 93A) or AIRM

66A

Aircraft fire detection and suppression systems. Aircraft inspection requirements and procedures. Approved by the Federal Aviation Administration (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

71 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
FAA approved course covering piston powerplant theory. Includes calculations and construction methods.

■ AIRM 95B — Aircraft Powerplant Maintenance 3 Units Technology: Reciprocating Engines

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: AIRM 95A or AIRM 65B

Federal Aviation Administration (FAA) approved course covering piston engine overhaul, inspection, and troubleshooting procedures.

■ AIRM 96A — Aircraft Powerplant Maintenance 3 Units Technology: Turbine Engines

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: (AIRM 95A and AIRM 95B) or AIRM 65B

Aircraft turbine engine history, construction, thrust formulas and turbine engine types. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. Required for FAA certification.

■ AIRM 96B — Aircraft Powerplant Maintenance Technology: Propellers

Degree Applicable

3 Units

36 hours lecture

71 hours lab

Prerequisite: (AIRM 95A and AIRM 95B and AIRM 96A) or AIRM

65B

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

■ AIRM 97A — Aircraft Powerplant Maintenance Technology: Instrumentation

Degree Applicable

3 Units

3 Units

36 hours lecture

71 hours lab

Prerequisite: (AIRM 95A and AIRM 95B and AIRM 96A and

AIRM96B) or AIRM 65B

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

■ AIRM 97B — Aircraft Powerplant Maintenance Technology: Fuel Meter Systems

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: AIRM 97A or AIRM 65A

Reciprocating engine and turbine engine fuels, fuel metering devices, and system operation. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

■ AIRM 98A — Aircraft Powerplant Maintenance 3 Units Technology: Ignition Systems

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: (AIRM 97A and AIRM 97B) or AIRM 65A

Reciprocating and turbine engine ignition system theory and maintenance. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 98B — Aircraft Powerplant Maintenance Technology: Lubricating Systems

Degree Applicable

3 Units

36 hours lecture

71 hours lab

Prerequisite: (AIRM 97A and AIRM 97B and AIRM 98A) or AIRM

Reciprocating and turbine engine lubricants and lubricating systems. Approved by the Federal Aviation Administration (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. Explores various approaches to recovery. Includes familiarization with terms.

■ AD 2 — Physiological Effects of Alcohol/Drugs 3 Units Degree Applicable, CSU

54 hours lecture

Examines effects of alcohol and drugs on the human body. Includes tolerance, habituation, cross-tolerance and synergistic effect.

■ AD 3 — Chemical Dependency: Intervention, Treatment and Recovery

Degree Applicable, CSU

54 hours lecture

Examines techniques used in chemical dependency treatment. Analyzes types of treatment programs and the essentials of recovery.

■ AD 4 — Issues in Domestic Violence

3 Units Degree Applicable

3 Units

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.

■ AD 10 — Client Record and Documentation

1.5 Units
Degree Applicable

Degree A

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: Eligibility for AMLA 43W.

Enhances the ability of non-native speakers to listen effectively and speak formally. Emphasis is on note taking, outlining, organizing speeches, and verbal articulation of ideas.

■ AMLA 24 — Idiomatic English

2 Units

Not Degree Applicable

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

Advisory: Eligibility for AMLA 42

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 Reading4 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 previously 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

orms 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

4 Units

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Advisory: BIOL 1 and ANAT 50

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

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Prerequisite: ANAT 10A or ANAT 35 Advisory: CHEM 10 or CHEM 40

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

108 hours lab

Prerequisite: 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.

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 1 H.

■ ANTH 1L — Biological Anthropology Laboratory 1 Unit Degree Applicable, CSU, UC

54 hours lab

Corequisite: ANTH 1 or ANTH 1H (may have been taken previously)
Scientific study of human evolution. Students will generate and
test hypotheses using the techniques and materials of biological
anthropology. Includes genetic observations and calculations,
osteological techniques and measurements, and primate behavior
observations. One field trip to a zoo for primate observation is
required.

■ ANTH 3 — Archaeology

3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Advisory: READ 90

Aims, methods and ethics of archaeological research and their application to the archaeological record, in contrast to popular depictions of archaeology. Evolution of culture from the earliest stone toolmakers to the primary civilizations of the Old and New Worlds, emphasizing invention and spread of agriculture and the impact of this change on prehistoric cultures.

■ ANTH 5 — Principles of Cultural Anthropology 3 Units 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

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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A Advisory: Eligibility for READ 100

Prehistory and history of Native Americans. 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

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.

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

Degree Applicable, CSU, UC

4 Units

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

71 hours lab

Fundamentals of design and design process. Elements include conceptualization, visualization, form making, 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

71 hours lab

Advisory: ARCH 11, ARCH 12, ARCH 14, and eligibility for MATH 51 Architectural working drawings and construction documents for light frame (Type V) construction, suitable for Building Department submittal. 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

3 Units

3 Units

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

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

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

71 hours lab

Advisory: ARCH 15, ARCH 18 or equivalent experience Architectural Computer Aided Design (CAD) for design develop-

ment and working drawings. Portfolio of working drawing using Building Information Modeling (BIM) and CAD applications of integrated 3-D and 2-D BIM/CAD models will be produced.

■ ARCH 27 — Design III - Environmental Design 3 Units

Degree Applicable, CSU, UC

36 hours lecture

71 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

Degree Applicable, CSU

3 Units

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 world architecture from pre-history to the Middle Ages. Influence of geography, religion, and socio-economic background on architecture from ancient Egypt, Europe through the Middle Ages, and classic civilizations of Asia and the Americas.

■ ARCH 32 — World Architecture II

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Development of world architecture from the Renaissance to the present. Influence of environment, religion and socio-economic movements on modern architecture.

■ ARCH 89 — Architectural Work Experience 1 to 2 Units

Degree Applicable

(May be taken for Pass/No Pass only)

60 to 150 hours lab

Prerequisite: Compliance with work experience regulations as designated in the College Catalog

Provide actual on-the-job experience in architecture at 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.

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

71 hours lab

Emphasizes creative expression through the use of drawing media and techniques. Emphasis is placed on use of construction, light logic, atmospheric and linear perspective, and gesture directed toward animation. Includes basic drawing skills and methods of achieving compositional integrity through objective analysis and synthesis. May require off-campus assignments.

■ ANIM 107 — Figure in Motion

3 Units Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 101 or ARTD 17A

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.

■ ANIM 108 — Principles of Animation

3 Units

Degree Applicable, CSU

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 several 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 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 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

Degree Applicable, CSU, UC

3 Units

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

36 hours lecture

71 hours lab

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

Prereauisite: 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 Mava.

■ ANIM 136 — Animation Environment and Level Design 3 Units Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 130 and ANIM 132

3D digital environment including designing, modeling, texturing, and lighting for computer graphic games, television programs, or films. Includes environment levels for computer graphic games.

■ ANIM 137A — Work Experience in New Digital Media 1 to 3 Units Degree Applicable

(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 AND ANIM 132

This course provides college credit and instructional guidance in conjunction with work experience in areas of New Digital Media at an approved work site related to a certificate or degree program of study. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Instructor approval required.

■ ANIM 141 — 2D Game Level Design

3 Units Degree Applicable

36 hours lecture

71 hours lab

Prereauisite: ANIM 131

Design of game levels based upon storytelling, platform and theme. Includes asset development of background, user interface, and character art.

■ ANIM 145 — Advanced 3-D Modeling

3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 130 Advisory: ANIM 132

3-D modeling with a focus on designing and rigging a character for animation. Includes UV texture mapping, character control for animation, and facial expressions using blend-shape animation.

■ ANIM 146 — Advanced 3-D Animation

3 Units Degree Applicable

36 hours lecture 71 hours lab

Prerequisite: ANIM 130

Advisory: ANIM 132

3D character animation principles and procedures used in computer graphics, games, film, and television. Includes walk, run, and action sequences for rigged characters using graph editor.

■ 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 151 — Game Prototype Production

3 Units

Degree Applicable

36 hours lecture

71 hours lab

Prerequisite: ANIM 131

Creation of game prototypes based upon specific game features and mechanics. Includes the four main game production cycles of: Designing the game, building the art, technical production, and marketing of the game.

■ 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 and Visual Effects 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

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. Off-campus trips may be required. Students may not earn credit for both ARTB 1 and AHIS 1 or AHIS 1H.

■ ARTB 14 — Basic Studio Arts

3 Units

Degree Applicable, CSU, UC

36 hours lecture 71 hours lab

Prereauisite: Eliaibility for ENGL 68

Creative expression through the visual and applied arts. Painting, drawing, printmaking and sculpture are explored. May require field trips.

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 and Eligibility for ENGL 68

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

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.

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

Advisory: ARTC 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

Prerequisite: 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 Merchandising, 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 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.

ART: SPECIAL STUDIO ARTS

■ ARTZ 50 — Specialized Studio-Art Studies

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

Allows the student to pursue more advanced studio projects and experiments in an area of interest in Studio Arts specialization. Professor authorization needed prior to enrollment.

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 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. Field trip 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

71 hours lab

Traditional and contemporary approaches to sculpture. Principles of sculptural design, concept development, technique and materials as an integral part of creative expression.

■ ARTS 40B — Sculpture: Intermediate

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

Sculpture projects in subtractive, additive and manipulative approaches.

■ ARTS 40C — Sculpture: Carving

3 Units

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 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

71 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: Intermediate Life 3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Prerequisite: ARTS 41A

Sculptural study of the human figure with emphasis on artistic development and stylistic exploration of human anatomy using materials and techniques suitable for the human form.

■ 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

Advisory: 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

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.

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 compose in dry and fluid media. Uses the formal elements and principles in black, white and color in representational and expressionistic styles.

■ ARTD 16 — Drawing: Perspective

3 Units Degree Applicable, CSU, UC

36 hours lecture

71 hours lab

Prerequisite: ARTD 15A or ANIM 104

Linear perspective drawing techniques for artists and illustrators.

■ ARTD 17A — Drawing: Life

3 Units

Degree Applicable, CSU, UC

36 hours lecture 71 hours lab

Prerequisite: ARTD 15A or ANIM 104

Contemporary and traditional approaches to drawing the human figure. Surface anatomy, proportion, line, light and shadow, composition, and the expressive potential of the human figure will be explored.

■ ARTD 17B — Drawing: Life-Advanced

3 Units

Degree Applicable, CSU, UC

36 hours lecture 71 hours lab

Prerequisite: ARTD 17A

Contemporary and traditional approaches to drawing the human figure. Anatomy, proportion, line, light and shadow, composition, personal style and the expressive potential of the human figure will be explored.

■ 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

Prereauisite: 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

Prerequisite: 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

Prerequisite: 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 composition, 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

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 Units

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

Watercolor techniques as they relate to compositional and technical processes in painting. Emphasis is placed upon painting skills as related to transparent watercolor methods as well as exploration into opaque and mixed-media approaches. Off-campus assignments may be required.

■ 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

(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

Prereauisite: 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, UC

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

Prereauisite: 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

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

54 hours lecture

Prerequisite: Eliqibility for ENGL 68

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

■ AHIS 3 — History of Women and Gender in Art 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility ENGL 68

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. Field trips may be required.

■ 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

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. Field trips may be required.

■ AHIS 4 — History of Western Art: Prehistoric 3 Units **Through Gothic**

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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

Prerequisite: Eligibility for ENGL 68

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. Off-campus assignments may be required.

■ 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. Off-campus assignments may be required.

■ AHIS 6 — History of Modern Art

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility ENGL 68

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. Off campus trips may be required.

■ AHIS 6H — History of Modern Art - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century and the international and multicultural character of Modern art. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 6 (formerly ARTA 6) and AHIS 6H. Off-campus trips may be required.

■ AHIS 8 — History of Medieval Art and Architecture 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 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

Prerequisite: Eligibility 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 and architecture before 500 CE will be examined in their cultural contexts. Historical perceptions of Classical art and culture and their impact on Europe and America will be studied.

■ AHIS 11 — History of African, Oceanic, and Native American Art 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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 and Architecture 3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

The arts of Pre-Columbian Mesoamerica and Andean South America. Major monuments of sculpture, painting, architecture, ceramics and textiles from civilizations including the Maya, Aztecs, and Inca will be studied in their cultural contexts.

■ AHIS 12H — History of Precolumbian Art and 3 Units Architecture - Honors

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

The arts of Precolumbian 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. 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, UC

54 hours lecture

Prerequisite: Eligibility 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, UC

54 hours lecture

Prerequisite: Eliaibility 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 for option of letter grade or Pass/No Pass)

36 hours lecture

Advisory: AHIS 1

Offers selected students recognition for their academic interest and ability, and the opportunity to explore the discipline in greater depth. The content of this course and the methods of study vary and depend on the particular project under consideration.

ASTRONOMY

■ ASTR 5 — Introduction to Astronomy 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

An introductory, 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 the Honors Program

An honors course designed to provide an enriched experience. An introductory, 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 5H OR 7 or 8 (May have been taken previously)

Advisory: Math 51

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.

■ ASTR 99 — Special Projects in Astronomy 2 Units Degree Applicable, CSU

(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.

BIOLOGY

■ BIOL 1 — General Biology

4 Units

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Prerequisite: Eligibility for ENGL 68

Advisorv: 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

Advisory: Eligibility for ENGL 1A

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 and/or hiking. Hiking, weekend and other field trips required.

■ 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: Eliaibility 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

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 on prevention of illness and iniuries.

■ BIOL 6 — Humans and the Environment

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Ecological concepts to aid understanding our environmental crisis and determining courses of action to correct the problem. Emphasis will be placed on specific problems of population, pollution, preservation of wildlife and wilderness, and open space. A historical appraisal of human attitudes toward the land and of the necessity of developing a new land ethic.

■ BIOL 6L — Humans and the Environment Laboratory 2 Units Degree Applicable, CSU, UC

108 hours lab

Corequisite: BIOL 6 (may have been taken previously)

Investigates major principles and problems of humans and the environment in the field and in the biological science laboratory. Most laboratory meetings will be conducted at off-campus locations. Some trips will require significant amounts of walking. Course includes one weekend field trip. 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

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, prokarvotes and eukarvotes; 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

Human Development, from conception to death. Conception. growth, maturation and aging are studied as a natural continuum, influenced by our biophysical and psychosocial environment. Includes developmental theories and scientific methods used to study development. Field trips to several off-campus sites are required

■ BIOL 15 — Human Sexuality

3 Units

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

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 3 Units Degree Applicable, CSU, UC

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

3 Units

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

t**ics Lab 1 Unit** Degree Applicable, CSU, UC

54 hours lab

Corequisite: 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

y 1 to 2 Units Degree Applicable, CSU

Degree Ap

18 to 36 hours lecture

In order to offer students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have instructor's authorization before enrolling in this course.

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

90 hours lecture

Prerequisite: BUSA 11 or eligibility for MATH 51

Advisory: Eligibility for ENGL 1A

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 various homework assignments.

■ 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, cost-volume-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, simple and compound interest, present value, consumer and business credit, mortgages, financial statements and ratios, inventory, depreciation, business taxes, investments.

■ BUSA 21 — Cost Accounting

4.5 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 and pricing methods, cost allocation, inventory management, capital budgeting, and transfer pricing.

■ BUSA 52 — Intermediate Accounting

3 Units Degree Applicable

54 hours lecture

Prereauisite: BUSA 8

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 multifaceted economic environment and the use of accounting information in decision making.

■ 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

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: Eliaibility for BUSA 11

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

Bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of an accounting project for a company.

■ BUSA 75 — Using Microcomputers in Financial Accounting 1 Unit Degree Applicable

18 hours lecture

Prerequisite: BUSA 7 or BUSA 72

Accounting concepts utilizing a computerized ledger software program. Hands-on use of a microcomputer to process accounting transactions, prepare statements and reports, and complete accounting cycle tasks. Completion of a computerized accounting practice set will be required.

■ BUSA 76 — Using Microcomputers in Managerial Accounting

1 Unit

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 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 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. Work experience placement is not guaranteed but assistance is provided.

BUSINESS: BUSINESS COMMUNICATIONS

■ BUSO 5 — Business English

3 Units

Degree Applicable

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Skills and techniques of English, as applied to business situations, with emphasis on effective document structure.

■ BUSO 25 — Business Communications

3 Units

Degree Applicable, CSU

54 hours lecture

Prereauisite: ENGL 1A

Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims, and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports.

■ BUSO 26 — Oral Communications for Business 3 Units

Degree Applicable

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

54 hours lecture

Oral communication used in business situations such as training sessions, presentations, professional discussions, and telephone interactions.

BUSINESS: ECONOMICS

■ BUSC 1A — Principles of Economics - Macroeconomics 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eliaibility 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

Degree Applicable, CSU, UC

3 Units

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 of supply and demand, consumer's behavior, cost theory and output determination under various market structures, factor markets, public choice, income distribution, externalities and government regulation, and 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 of supply and demand, consumer's behavior, cost theory and output determination under various market structures, factor markets, public choice, income distribution, externalities and government regulation, and comparative economic systems. This is 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 procedures, principles of contract law, sales of goods under the Uniform Commercial Code, torts, and criminal law.

■ 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, torts, and criminal law. 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

Degre

54 hours lecture

Advisory: Eligibility for ENGL 68

A comparative approach to the study of the international legal environment for business. Cultural, political, economic and ethical issues are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, crimes, trade regulation and technology transfers.

BUSINESS: MANAGEMENT

■ BUSM 10 — Principles of Continuous Quality Improvement 3 Units Degree Applicable

54 hours lecture

Advisory: BUSO 5 or eligibility for ENGL 68

History and evolution of thought in Continuous Quality Improvement (CQI), including the theories and methods of Deming, Juran and Crosby. Practical application of Quality management processes and tools are presented for the continuous improvement of organizational quality. 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

International business environment with 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

Practical information needed to participate in activities related to the exporting and importing of goods and services. Includes vocabulary, acronyms and 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

Inter-disciplinary study of how people work and relate at the individual, group and organizational level. Topics include motivation, team work, leadership skill and how to handle organizational change.

■ BUSM 61 — Business Organization and Management 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: BUSM 20

Functions of management, management concepts, planning, organizing, staffing and controlling. Theories of management, lines of authority, functions of departments, and the importance of policies, procedures, and controls.

■ 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

Organizing, starting, and operating a small business enterprise. Emphasis on entrepreneurial applications in a small business environment.

■ BUSM 81 — Work Experience in Business

1 to 4 Units

Degree Applicable

(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.

■ BUSM 85 — Special Issues in Business

2 Units

Degree Applicable

(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 solutions in an actual business situation.

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

3 Units Degree Applicable, CSU

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 I

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 II

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

Corequisite: PLGL 30 (may have been taken previously)

Examines procedures utilized by a paralegal in a law office. Court systems, preparation and filing of legal papers and court documents, and drafting specialized documents in such areas as estate planning, real estate, divorce, unlawful detainer, adoption, corporations, conservatorships and quardianships.

■ PLGL 35B — Automated Law Office Procedures 3 Units

Degree Applicable

54 hours lecture

Prerequisite: PLGL 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 for Pass/No Pass only)

75 hours lab

Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A

Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may

have been taken previously)

Designed to provide the student with actual on-the-job experience in the paralegal profession which relates to student's classroom based learning. Placement is not guaranteed but assistance is provided by the paralegal faculty. A minimum of five hours per week of supervised work (minimum 75 paid clock hours or 60 nonpaid clock hours per semester) is required.

■ 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

Degree Applicable

2 Units

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 resumes and cover letters, interviewing, networking, 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

27 hours lecture

Corequisite: PLGL 47A (May have been taken previously) Litigation practice including the mechanics of trial, opening statements and closing arguments, and direct 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

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

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. Must be completed prior to applying to take the Salesperson License Exam.

■ BUSR 52D — Real Estate Practice Work Experience 3 Units Degree Applicable

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.

■ 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 Degree Applicable

54 hours lecture Prerequisite: BUSR 50

Analysis of international, national and local factors which determine the value of real estate.

■ BUSR 57 — Income Tax Aspects of Real **Estate Investments**

3 Units

Degree Applicable

54 hours lecture

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 Prerequisite: 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

Prerequisite: BUSR 50

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

Prerequisite: BUSR 50

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

Escrow procedures including processing of case study sale escrows with and without new trust deed financing, including escrow vocabulary ,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 81 — Appraisal: Principles and Procedures 3.5 Units Degree Applicable

63 hours lecture

Advisory: BUSR 50

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.

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. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy.

■ 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.

■ BUSS 79 — Work Experience in Marketing Management

1 to 4 Units

Degree Applicable

(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

Job experience in an approved work site relating to classroombased learning for marketing students. 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.

■ BUSS 85 — Special Issues in Marketing

2 Units Degree Applicable

(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.

CHEMISTRY

■ CHEM 10 — Chemistry for Allied Health Majors 5 Units Degree Applicable, CSU, UC

72 hours lecture 54 hours lab

Prerequisite: Eligibility for MATH 71

Principles of inorganic chemistry including measurements, structure, nomenclature, reactions, radioactivity, energy, properties of matter, acids/bases and solutions. For Allied Health majors such as nursing, dental hygiene, radiation technology. Completion does not give eligibility for CHEM 50.

■ CHEM 20 — Introductory Organic and Biochemistry 5 Units 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 5 Units

Degree Applicable, CSU, UC

72 hours lecture

54 hours lab

Prerequisite: Eligibility for MATH 71

Advisory: Eligibility for ENGL 1A

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

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 40 or satisfactory score on Chemistry Placement Examination; and MATH 71, 71B or 71X or equivalent.

In depth treatment of chemical formulas, equations, nomenclature, reactions, stoichiometry, thermochemistry, periodic trends, atomic structure, chemical bonding and structure, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking as well as mathematical and dimensional analysis problemsolving. Laboratory experiments emphasize the scientific method as well as computer-based technologies in data acquisition and analysis. Introduces laboratory report writing skills.

■ CHEM 50H — General Chemistry I - Honors 5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: Acceptance into the Honors Program. CHEM 40 or satisfactory score on Chemistry Placement Examination, and MATH 71, 71B, or 71X or equivalent.

In depth treatment of chemical formulas, equations, nomenclature, reactions, stoichiometry, thermochemistry, periodic trends, atomic structure, chemical bonding and structure, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking as well as mathematical and dimensional analysis problemsolving. Laboratory experiments emphasize the scientific method as well as computer-based technologies in data acquisition and analysis. Introduces laboratory report writing skills. 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

5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 50 or CHEM 50H

Application of the laws, theories and principles presented in CHEM 50 to a variety of chemical systems. Topics include kinetics, equilibrium, thermodynamics, acid-base and oxidation-reduction reactions, transition metals, electrochemistry, and nuclear chemistry. Emphasis is on critical thinking and mathematical problem-solving. Laboratory experiments use computer-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

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 compounds. 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 II

5 Units Degree Applicable, CSU, UC

54 hours lecture 108 hours lab

Prereauisite: CHEM 80

Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre-professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/ reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods. Structure, synthesis and representative reactions of carbohydrates, lipids and proteins.

■ CHEM 99 — Special Projects in Chemistry 2 Units

Degree Applicable, CSU

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.

CHILD DEVELOPMENT

■ CHLD 1 — Child, Family, School and Community 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Home, child, school and community relationships as they pertain to the historical and contemporary perspectives on the education and socialization of children. Family systems and community resources and the influences of age, gender, culture, diverse abilities, socioeconomic status and public policies factors that affect children and families.

■ CHLD 5 — Principles and Practices in 3 Units Child Development Programs

Degree Applicable, CSU

54 hours lecture

Examine programs, appropriate practices, regulations, inclusive environments for diverse learners. Theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for children. Review of the historical roots of Early Childhood Education (ECE) programs and evolution of the professional practices promoting advocacy, ethics, and professional identity. TB test/10 hrs. observations

■ 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 Lifespan Development 3 Units Degree Applicable, CSU, UC

54 hours lecture

Human lifespan and developmental influences. Developmental approach to the study of the person 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 Lifespan Development - Honors

Degree Applicable, CSU, UC

3 Units

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Human lifespan and developmental influences. Developmental approach to the study of the person 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. An honors course designed to provide an enriched experience for accelerated students. Students may not receive credit for both CHLD 10 and CHLD 10H.

■ CHLD 11 — Child and Adolescent Development 3 Units Degree Applicable, CSU, UC

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 theories and teaching strategies that include self-examination, reflection and opportunity to address issues related to social identity, stereotypes and bias, oppression, 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 Young Children 3 Units

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.

■ CHLD 64 — Health, Safety and Nutrition of Children 3 Units Degree Applicable, CSU

54 hours lecture

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children.

■ CHLD 66 — Early Childhood Development Observation 2 Units and Assessment

Degree Applicable, CSU

36 hours lecture

Prerequisite: CHLD 5 and (CHLD 10 or CHLD 10H or CHLD 11)
Corequisite: CHLD 66L

The appropriate use of observation and assessment strategies to document children's behavior, development and growth.

Recording strategies, documentation panels, rating systems, and multiple assessment tools are explored. CHLD 66L must be taken concurrently.

■ CHLD 66L — Early Childhood Development Observation 1 Unit and Assessment Laboratory

Degree Applicable, CSU

54 hours lab

Prerequisite: CHLD 5 and (CHLD 10 or CHLD 10H or CHLD 11)

Corequisite: CHLD 66

Understanding of child development through observation and assessment in the Early Childhood Education Laboratory School. A holistic approach to child study is emphasized. Students synthesize information which they have recorded and relate it to various domains of the preschool child's growth and development. TB Test required. CHLD 66 must be taken concurrently.

■ CHLD 67 — Early Childhood Education Practicum 2 Units Degree Applicable, CSU

36 hours lecture

Prerequisite: CHLD 6 and CHLD 66 and CHLD 66L

Corequisite: CHLD 67L

Child development principles in the preschool classroom setting and recognition of skills necessary for the teacher of young children. Evaluation of participation experiences.

■ CHLD 67L — Early Childhood Education 1 Unit Practicum Laboratory

Degree Applicable, CSU

63 hours lab

Corequisite: CHLD 67

Supervised teaching experience with young children. Child centered, play-oriented approaches to teaching, learning and assessment. Student teachers design, implement and evaluate curriculum for groups of children. Negative TB test result required.

■ CHLD 68 — Children With Special Needs

Is 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68 AND (CHLD 10 or CHLD 10H or

CHLD 11)

Typical and atypical characteristics in physical, cognitive, and social-emotional development for those planning to work with children with special needs. Topics relevant to the inclusive classroom are examined from a culturally sensitive, family-centered perspective. Examines current and historical legal issues, current educational trends, and community resources. TB test required for off-campus observations.

■ CHLD 69 — Early Childhood Development Field 2 Units Work Seminar

Degree Applicable, CSU

36 hours lecture

Prerequisite: CHLD 67 and CHLD 67L

Corequisite: CHLD 91

Selected student teaching problem-solving topics related to placement in community sites. Topics include philosophical orientation, curriculum, parent involvement, staff relations, professionalism and professional growth.

■ 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 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

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

Developmentally appropriate caregiving practices for infants and toddlers from birth to three. Includes teaching practices that support theories and practical application of attachment, cognition and relationship based learning. Student assignments involve up to ten hours of observations and participation with infants and toddlers outside of class time. TB test required for observations.

■ CHLD 74 — Program Planning for the School Age Child 3 Units Degree Applicable

54 hours lecture

Advisory: CHLD 10 or CHLD 10H or CHLD 11

Principles of child development related to working with schoolage children. Program planning and legal requirements for school-age programs emphasized. Explores discipline and conflict resolution. Methods of integrating after-school activities with California content standards. TB test required for observations.

■ CHLD 75 — Supervising Adults in Early Childhood Settings

Degree Applicable

2 Units

1 Unit

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

Degree Applicable

(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 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.

■ 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 Advisorv: 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.

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

Prerequisite: CHIN 1 or equivalent

Further develops conversational, reading, and writing skills in Mandarin Chinese with special emphasis on verbs, grammar, and extension of vocabulary.

■ CHIN 3 — Intermediate Chinese

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: CHIN 2

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

Using Mandarin in traveling, telling stories, describing experiences and discussing Chinese literary works, festivals, food and advanced grammar.

COMPUTER GRAPHICS

■ GRAP 8 — Fundamentals of Digital Media

dia 3 Units Degree Applicable, CSU

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

3 Units
Degree Applicable

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

36 hours lecture

54 hours lab

Prerequisite: GRAP 10

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 self-expression, entertainment, commercial design, the internet, and multimedia production.

■ GRAP 30 — Digital Productions

3 Units

2 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.

■ GRAP 40 — Computer Graphics Special Topics

Degree Applicable

(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 — Special Projects in Computer Information Systems

1 to 3 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

54 to 162 hours lab

Prerequisite: Instructor Approval

Offers selected students recognition for their academic interest and ability, and the opportunity to explore the discipline in greater depth. The content of this course and the methods of study vary and depend on the particular project under consideration.

COMPUTER INFORMATION SYSTEMS: BEGINNING

■ CISB 11 — Computer Information Systems

3.5 Units

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 15 — Microcomputer Applications 3.5 Units

Degree Applicable, CSU, UC

54 hours lecture

27 hours lab

Windows 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.

■ CISB 16 — Macintosh Applications

2 Units

Degree Applicable, CSU

27 hours lecture

27 hours lab

Apple's Macintosh computer, Mac OS X operating system, and related word processing, database, spreadsheet, and multimedia applications.

■ CISB 21 — Microsoft Excel

3 Units

Degree Applicable

54 hours lecture

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

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

re 3 Units Degree Applicable, CSU

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

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 3 Units

Degree Applicable, CSU

54 hours lecture Corequisite: CISD 11L Advisory: CISB 15 or CISB 11

Design, creation, and management of relational databases using Microsoft Access. Basic database design, creation of tables, queries, forms, reports, and macros. Creation of custom graphical user interface and introduction to Visual Basic for Applications (VBA) code.

■ CISD 11L — Database Management - Microsoft Access Lab .5 Unit Degree Applicable

27 hours lab

Corequisite: CISD 11

Laboratory for CISD 11 - Database Management - Microsoft Access, Exercises focusing on design and development of a business database using Microsoft Access software, including creation of tables and relationships between tables, queries, forms, reports, macros and an introduction to Visual Basics for Applications (VBA) programming language to make a fully-functioning, user-friendly Access database.

■ CISD 14 — VBA for Excel and Access

3 Units Degree Applicable

54 hours lecture Corequisite: CISD 14L Advisory:CISD 11 AND CISB 21

Excel and Access programming using Visual Basic for Applications (VBA) programming language for business applications. Event-driven programming, Excel and Access Object Models, ActiveX Data Objects model (ADO), VBA structures, arrays, embedded SQL (Structured Query Language) into Access VBA, and error-handling.

■ CISD 14L — VBA for Excel and Access Lab

.5 Unit Degree Applicable

27 hours lab

Corequisite: CISD 14

Laboratory component for the CISD 14 course. Visual Basic for Applications (VBA) programming language exercises in both Excel and Access applications. Uses the structures learned in the CISD 14 course, including decision statements, looping, array manipulation, and error-handling. Use the Excel and Access Object Models and the ActiveX Data Objects model in programming projects.

■ CISD 21 — Database Management - Microsoft SQL Server 3 Units Degree Applicable, CSU

54 hours lecture Corequisite: CISD 21L

Advisory: CISB 11 or CISB 15

Structured query language (SQL) and Transact-SQL for Microsoft SQL Server. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures and functions, developing triggers, and creating cursors. Student must be enrolled in CISD 21L, a concurrent lab co-requisite.

■ CISD 21L — Database Management - Microsoft SQL .5 Unit Server Laboratory

Degree Applicable

27 hours lab

Corequisite: CISD 21

Laboratory for CISD 21 - Structured query language (SQL) and Transact-SQL for Microsoft SQL Server. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures/functions, triggers, and creating cursors. Student must be enrolled in CISD 21, a concurrent lecture co-requisite.

■ CISD 31 — Database Management - Oracle 3 Units

Degree Applicable, CSU

54 hours lecture Corequisite: CISD 31L Advisory: CISB 11 or CISB 15

Oracle database management system (DBMS) functions, concepts, and terms. Procedure Language/Structure Query Language (PL/SQL) is used to code, test, and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL.Concurrent enrollment in CISD 31L is required.

■ CISD 31L — Oracle Lab

.5 Unit Degree Applicable

27 hours lab

Corequisite: CISD 31

Laboratory for CISD 31 - Oracle database management system (DBMS) functions, concepts, and terms. Procedure Language/Structured Query Language (PL/SQL) is used to code, test, and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL. Concurrent enrollment in CISD 31 is required.

■ CISD 40 — Database Design

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: CISD 11 and CISD 11L

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 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

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 and BUSO 5

Training and skill building in filing systems and procedures, proofreading, telephone techniques, faxing, emailing, and electronic calendaring of events, appointments and meetings.

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 11

Information systems and the discipline of systems analysis in relation to the system development life cycle. Develops skills in applying the tools, techniques, and concepts of systems analysis to information systems development. Application of structured analysis and design methods and tools, including Computer Aided System Engineering (CASE) tools.

COMPUTER INFORMATION SYSTEMS: NETWORKING

■ CISN 11 — Telecommunications/Networking 3 Units Degree Applicable, CSU

54 hours lecture Corequisite: CISN 11L Advisory: CISB 11

Prepares students for the first year Cisco Certified Network Associate (CCNA) and Network+ certification. Telecommunications networking focusing on network concepts and designs, network standards, Transmission Control Protocol and Internet Protocol (TCP/IP) version 4 (IPv4) and version 6 (IPv6), Open Systems Interconnection (OSI), network protocols, transmission media, switch, hardware architecture, local area network (LAN), wide area network (WAN), remote connectivity, Microsoft and Linux network operating system, network troubleshooting, maintenance, and upgrade, network and wireless security, system vulnerability, and network sniffing analysis.

■ CISN 11L — Telecommunications/Networking Lab .5 Unit Degree Applicable, CSU

27 hours lab

Corequisite: CISN 11

Telecommunications Networking lab preparing students for first year Cisco Certified Network Associate (CCNA) and Network+certification. Telecommunications Networking focusing on network concepts and designs, network standards, Transmission Control Protocol and Internet Protocol (TCP/IP) version 4 (IPv4) and version 6 (IPv6), Open Systems Interconnection (OSI), network protocols, transmission media, switch, hardware architecture, local area network (LAN), wide area network (WAN), remote connectivity, Microsoft and Linux network operating system, network troubleshooting, maintenance, and upgrade, network and wireless security, system vulnerability, and network sniffing analysis.

■ CISN 21 — Windows Operating System 3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: CISB 11 or CISB 15

Windows operating system installation and performance tweaking, including hardware and software issues, Windows system files, and Windows security.

■ CISN 24 — Window Server Network and Security Administration

Degree Applicable, CSU

3 Units

54 hours lecture
Corequisite: CISN 24L

Advisorv: CISN 11

Computer Network Administration and Security Management (CNASM) core. Microsoft Certified Systems Engineer (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 24L — Window Server Network and .5 Unit Security Administration Lab

Degree Applicable, CSU

27 hours lab

Corequisite: CISN 24

Laboratory applications for Microsoft Certified Systems Engineer (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). Student must be enrolled in CISN 24 - Window Server Network and Security Administration, a concurrent lecture co-requisite.

■ CISN 31 — Linux Operating System

3 Units

Degree Applicable, CSU

54 hours lecture

Coreauisite: CISN 31L

Advisorv: CISB 11

Concepts and skills in planning and installing Linux Operating System and its graphical user interface; using Linux Shells and system administration commands; managing user accounts; installing hardware and software; and maintaining file systems and system resources.

■ CISN 31L — Linux Operating System Laboratory .5 Unit Degree Applicable

27 hours lab

Coreauisite: CISN 31

Laboratory for planning, installing and managing Linux Operating System and its graphical user interface; using Linux Shells and system administration commands; managing user accounts; installing hardware and software; and maintaining file systems and system resources. Concurrent enrollment in CISN 31 lecture course is required.

■ CISN 34 — Linux Networking and Security

3 Units

Degree Applicable, CSU

54 hours lecture

Corequisite: CISN 34L

Advisory: CISN 31

Installation and management of Linux operating system networks and security modules. Concept study and installation of: TCP/IP protocols, IP addressing, network protocols and servers, routers, and network applications. Creating Linux intranets and connecting to Internet.Student must take CISN 34L, a concurrent lab co-requisite.

■ CISN 34L — Linux Networking and Security Laboratory .5 Unit Degree Applicable

27 hours lab

Corequisite: CISN 34

Laboratory for installation and management of Linux operating system networks and security modules. Concept study and installation of: TCP/IP protocols, IP addressing, network protocols and servers, routers, and network applications. Creating Linux intranets and connecting to Internet. Student must be enrolled in CISN 34. a concurrent lecture course co-requisite.

■ CISN 51 — Cisco CCNA Networking and Routing 3 Units Degree Applicable, CSU

54 hours lecture

Corequisite: CISN 51L

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 (LAN), wide area networks (WAN), open systems interconnection (OSI) model, advanced Subnetting, route summarization, command line Interface (CLI), transmission control protocol and Internet protocol (TCP/IP), Cisco internetwork operating system (IOS), router, advanced switching, virtual LAN (VLAN), access control lists (ACL), wireless and network security, Internet protocol version 6 (IPv6), point-to-point protocol (PPP), voice over Internet protocol (VoIP), and routing protocols including static route, routing information protocol (RIP), enhanced interior gateway routing protocol (EIGRP), and open shortest path first (OSPF). Student must be enrolled in CISN 51L, a concurrent lab co-requisite.

■ CISN 51L — Cisco CCNA Lab

.5 Unit

Degree Applicable, CSU

27 hours lab

Corequisite: CISN 51

Lab to prepare for Cisco Certified Network Associate (CCNA) certification. Design and configuration of local area networks (LAN), wide area networks (WAN), open systems interconnection (OSI) model, advanced subnetting, route summarization, command line interface (CLI), transmission control protocol and Internet protocol (TCP/IP), Cisco internetwork operating system (IOS), router, advanced switching, virtual LAN (VLAN), access control lists (ACL), wireless and network security, Internet protocol version 6 (IPv6), point-to-point protocol (PPP), voice over Internet protocol (VoIP), and routing protocols including static route, routing information protocol (RIP), enhanced interior gateway routing protocol (EIGRP), and open shortest path first (OSPF). Student must be enrolled in CISN 51 - Cisco CCNA Networking and Routing, a concurrent lecture co-requisite.

■ 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 3 Units

Degree Applicable, CSU, UC

54 hours lecture Corequisite: CISP 11L

Advisory: CISB 11 or CISB 15 or CISP 10

Visual Basic programming in the business environment includes: planning and writing object-oriented applications using Windows Forms and Web Forms; user interface design classes, objects, properties, methods and events; control structures; lists and arrays; printing and print previews; accessing a database. Student must be concurrently enrolled in CISP 11L - Programming in Visual Basic Lab.

■ CISP 11L — Programming in Visual Basic Laboratory .5 Unit Degree Applicable

27 hours lab

Corequisite: CISP 11

Laboratory for CISP 11 - Programming in Visual Basic. Planning and writing object-oriented applications in the business environment, 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. Concurrent enrollment in the lecture course CISP 11 - Programming in Visual Basic is required.

■ CISP 14 — Advanced Visual Basic .NET 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Corequisite: CISP 14L

Advisory: CISP 11 and CISP 11L

Advanced programming concepts using Visual Basic .NET: 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. Student must be enrolled in CISP 14L, a concurrent lab co-requisite.

■ CISP 14L — Advanced Visual Basic.NET Laboratory .5 Unit Degree Applicable

27 hours lab

Corequisite: CISP 14

Advisory: CISP 11 and CISP 11L

Laboratory for advanced programming concepts using Visual Basic .NET: 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. Student must be enrolled in CISP 14, a concurrent lecture co-requisite.

■ CISP 21 — Programming in Java

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: CISB 11 OR CISB 15

Coreauisite: CISP 21L

Advisory: CISP 10 (may have been taken previously)

Java programming - includes design and development of objectoriented business programs and applications, documentation and debugging techniques, user-interface, objects, various data types, methods, events, elementary control structures, arrays, and inheritance. Student must be enrolled in CISP 21L, a concurrent lab co-requisite.

■ CISP 21L — Programming in Java Laboratory

, .5 Unit Degree Applicable

27 hours lab

Corequisite: CISP 21

Laboratory for CISP21 - Java Programming exercises focusing on design and development of object-oriented business programs and applications, documentation and debugging techniques, user-interface, objects, variables, methods, events, elementary control structures, lists, arrays, and inheritance. Concurrent enrollment in the lecture course CISP 21 - Programming in Java is required.

■ CISP 24 — Advanced Java Programming

3 Units

Degree Applicable

54 hours lecture

Corequisite: CISP 24L

Advisory: CISP 21 and CISP 21L

Advanced object-oriented programming using Java: designing, coding, testing and implementing multi-tier applications in serialization, multithreading, Advanced Swing Components (ASC), networking, server-side technology which include servlets, remote method invocation (RMI), Java server pages, Java Database Connectivity (JDBC), public key infrastructure (PKI), mobile applications and security. Student must be enrolled in CISP 24L, a concurrent lab co-requisite.

■ CISP 24L — Advanced Java Laboratory

.5 Unit

Degree Applicable

27 hours lab

Corequisite: CISP 24

Advisory: CISP 21 and CISP 21L

Laboratory for advanced programming concepts using Java: designing, coding, testing and implementing multi-tier applications in serialization, multithreading, Advanced Swing Components (ASC), networking, server-side technology which include servlets, remote method invocation (RMI), Java server pages, Java Database Connectivity (JDBC), public key infrastructure (PKI), mobile applications and security. Student must be enrolled in CISP 24. a concurrent lecture co-requisite.

■ CISP 31 — Programming in C++

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Coreauisite: CISP 31L

Advisory: CISP 10 or (CISP 11 and CISP 11L) or (CISP 21 and CISP

21L,

Object-oriented programming in C++ including object-oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, and single and multiple inheritance. Student must be enrolled in CISP 31L, a concurrent laboratory co-requisite.

■ CISP 31L — Programming in C++ Laboratory .5 Unit

Degree Applicable

3 Units

27 hours lab

Corequisite: CISP 31

Laboratory for object-oriented programming in C++ including object-oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, and single and multiple inheritance. Student must be enrolled in CISP 31, a concurrent lecture co-requisite.

■ CISP 34 — Advanced C++ Programming

Degree Applicable, CSU, UC

54 hours lecture Corequisite: CISP 34L

Advisory: CISP 31 and CISP 31L

Object-oriented programming in C++ concepts and principles. Covers data structures: vectors, linked lists, queues, stacks and hash tables. Also graphical-user interface (GUI), database access and web services. Student must be enrolled in CISP 34L, a concurrent lab co-requisite.

■ CISP 34L — Advanced C++ Programming Laboratory .5 Unit Degree Applicable

27 hours lab

Corequisite: CISP 34

Laboratory for object-oriented programming in C++ concepts. Covers principles covers data structures: vectors, linked lists, queues, stacks and hash tables. Also graphical-user interface (GUI), database access and web services. Student must be enrolled in CISP 34, a concurrent lecture co-requisite.

■ CISP 41 — Programming in C#

3 Units Degree Applicable

54 hours lecture Corequisite: CISP 41L

Advisory: CISP 10, CISB 11, CISB 15

Programming in C# using Windows Forms and Web Forms. Course covers control structures (loops, if statements, and switch blocks), database access, multiple forms, and object-oriented programming concepts. Student must be enrolled in CISP 41L, a concurrent lab co-requisite.

■ CISP 41L — Programming in C# Lab .5 Unit

Degree Applicable

27 hours lab

Corequisite: CISP 41

Laboratory for programming in C# using Windows Forms and Web Forms. Course covers control structures (loops, if statements, and switch blocks), database access, multiple forms, and objectoriented programming concepts. Student must be enrolled in CISP 41, a concurrent lecture co-requisite.

■ CISP 51 — Principles of Object-Oriented Design 2 Units Degree Applicable

27 hours lecture

27 hours lah

Advisory: CISP 11 or CISP 21 or CISP 31

Provides instruction in object-oriented design and patterns, vital concepts for object-oriented programming language. Includes object-oriented design, patterns and UML within programming that will enable students to build large packages and business applications.

■ 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

Coreauisite: 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.

■ CISP 61 — Introduction to Game Programming 3 Units

Not Degree Applicable

54 hours lecture Coreauisite: CISP 61L

Advisory: CISP 31 and CISP 34

Game programming technologies and techniques, including programming languages and IDEs (Integrated Development Environment), libraries and engines, development design and principles, and application of game specific programming techniques. Student must be enrolled in CISP 61L concurrently.

■ CISP 61L — Introduction to Game Programming Lab .5 Unit

Not Degree Applicable

27 hours lab Coreauisite: CISP 61

Provides practical implementation of game development using different software packages. Student must be enrolled in CISP 61, 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

72 hours lecture

Advisory: CISS 11 AND CISB 11

Certified Information Systems Security Professional (CISSP) exam course preparation including legal, business, and ethical topics.

■ CISS 15 — Operating Systems Security

3 Units

Degree Applicable

54 hours lecture

Advisorv: CISB 11 or CISN 21

Operating systems security concepts and techniques: covers how attackers operate, how viruses strike, strengthening operating systems, repelling attacks, and applying security techniques to different operating systems like Windows, Unix, Linux, etc.

■ CISS 21 — Network Vulnerabilities and Countermeasures 3 Units Degree Applicable, CSU

54 hours lecture

Coreauisite: CISS 21L

Advisory: CISN 11 or CISN 24 or CISN 51

Network vulnerabilities from a hacker's perspective. Cyber security legal and ethical issues. Written security, use policy, and instance response policy. Scanning and penetration tests, vulnerability assessments and countermeasures for Windows and Linux operating systems. Secure programming, virtual private network (VPN), cryptography, wireless, Web, and remote access securities. Student must be enrolled in CISS 21L, a concurrent lab co-requisite.

■ CISS 21L — Network Vulnerabilities and .5 Unit Countermeasures Lab

Degree Applicable, CSU

27 hours lab Corequisite: CISS 21

Laboratory for network vulnerabilities from a hacker's perspective. Cyber security legal and ethical issues. Written security, use policy, and instance response policy. Scanning and penetration tests, vulnerability assessments and countermeasures for Windows and Linux operating systems. Secure programming, virtual private network (VPN), cryptography, wireless, Web, and remote access securities. Student must be enrolled in CISS 21, a concurrent lecture co-requisite.

3 Units ■ CISS 23 — Network Analysis, **Intrusion Detection/Prevention Systems**

Degree Applicable, CSU

54 hours lecture Corequisite: CISS 23L

Advisory: CISN 11 or CISN 24 or CISN 51

WireShark, Netflow network analyzer, and computer forensic tools to troubleshoot network problems and monitor network traffics. Detect and block network attacks with standalone Cisco Intrusion Detection Systems and Intrusion Prevention Systems (IDS/IPS), integrated Cisco Adaptive Security Appliance (ASA) IPS, Linux Snort and Windows IDS/IPS. Student must be enrolled in CISS 23L, a concurrent lab co-requisite.

■ CISS 23L — Network Analysis, .5 Unit Intrusion Detection/Prevention Systems Lab Degree Applicable, CSU

27 hours lab

Corequisite: CISS 23

Laboratory course using WireShark, Netflow network analyzer, and computer forensic tools to troubleshoot network problems and monitor network traffics. Detect and block network attacks with standalone Cisco Intrusion Detection Systems and Intrusion Prevention Systems (IDS/IPS), integrated Cisco Adaptive Security Appliance (ASA) IPS, Linux Snort and Windows IDS/ IPS. Student must be enrolled in CISS 23, a concurrent lecture co-requisite.

■ CISS 25 — Network Security and Firewalls 3 Units Degree Applicable, CSU

54 hours lecture

Corequisite: CISS 25L

Advisory: (CISN 11 and CISN 11L) or (CISN 24 and CISN 24L) or (CISN 51 and CISN 51L)

Design, configure, and implement firewalls to secure enterprise, medium, and small businesses networks. Cisco Adaptive Security Appliance (ASA) with intrusion prevention system (IPS) and Linux firewall with IPS integration. Site to site and remote client Virtual Private Network (VPN), Access Control Lists (ACL), content filtering, Confidentiality Integrity Availability (CIA), Radius, and Certificate Authentication (CA). Cisco ASA and Linux firewall troubleshooting technique. Student must enroll in CISS 25L concurrently.

■ CISS 25L — Network Security and Firewalls Lab .5 Unit Degree Applicable, CSU

27 hours lab

Corequisite: CISS 25

Laboratory to design, configure, and implement firewall to secure enterprise, medium, and small businesses networks. Cisco Adaptive Security Appliance (ASA) with intrusion prevention system (IPS) and Linux firewall with IPS integration. Site to site and remote client Virtual Private Network (VPN), Access Control Lists (ACL), content filtering, Confidentiality Integrity Availability (CIA), Radius, and Certificate Authentication (CA). Cisco ASA and Linux firewall troubleshooting technique. Student must enroll in CISS 25, a concurrent lecture co-requisite.

■ CISS 27 — Defending Computer Systems Degree Applicable

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

Degree Applicable, CSU

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

54 hours lab

Integrate knowledge learned from Computer Network Administration and Security Management courses through lab activities and community services.

COMPUTER INFORMATION SYSTEMS: WEB APPLICATIONS

■ CISW 15 — Web Site Development

3.5 Units

Degree Applicable, CSU

54 hours lecture

27 hours lab

Advisory: CISB 15 or CISB 16

Plan, develop, implement, publish and maintain Web sites with a professional visual Web-authoring application, includes working with text and images, internal and external hyperlinks, image maps, tables, Cascading Style Sheets (CSS), 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 3 Units

Degree Applicable, CSU

54 hours lecture Corequisite: CISW 21L Advisory: CISB 15

Secure Web programming using programming, scripting and markup languages such as XML (eXtensible Markup Language), XHTML (XML HyperText Markup Language), Dynamic HTML, Javascript, AJAX (Asynchronous Javascript and XML), and ASP.NET (Active Server Pages .NET) with VB.NET (Visual Basic .NET) for designing user interfaces, processing user input, and accessing Web servers and databases. Student must be enrolled in CISW 21L, a concurrent lab co-requisite

■ CISW 21L — Secure Web Programming with ASP.NET Lab .5 Unit Degree Applicable

27 hours lab

1 Unit

1 Unit

Corequisite: CISW 21

Laboratory for secure Web programming using programming, scripting and markup languages such as XML (eXtensible Markup Language), XHTML (XML HyperText Markup Language), Dynamic HTML, Javascript, AJAX (Asynchronous Javascript and XML), and ASP.NET (Active Server Pages .NET) with VB.NET (Visual Basic .NET) for designing user interfaces, processing user input, and accessing Web servers and databases. Student must be enrolled in CISW 21, a concurrent lecture co-requisite.

■ CISW 24 — Secure Server Side Web Programming 3 Units Degree Applicable

54 hours lecture Corequisite: CISW 24L

Secure web programming to create user interfaces, extract information and manage databases, manage files, format reports, and access web servers by using Practical Extraction and Report Language (PERL), Python, Ruby or any Web scripting or programming language. Student must be enrolled in CISW 24L, a concurrent lab co-requisite.

■ CISW 24L — Secure Server Side Web Programming Lab .5 Unit Degree Applicable

27 hours lab

Corequisite: CISW 24

Laboratory for secure web programming to create user interfaces, extract information and manage databases, manage files, format reports, and access web servers by using Practical Extraction and Reporting Language (PERL), Python, Ruby or any Web scripting or programming language. Student must be enrolled in CISW 24, a concurrent lecture co-requisite.

■ CISW 31 — Secure Web Servers

3 Units

Degree Applicable

54 hours lecture Corequisite: CISW 31L

Advisory: (CISN 34 and CISN 34L) or (CISW 24 and CISW 24L)

Plan, install, and manage secure Apache Web servers using server side programming language like PHP (PHP: Hypertext Preprocessor) to access, manage, and secure MySQL databases. Student must be enrolled in CISW 31L, a concurrent lab corequisite.

■ CISW 31L — Secure Web Servers Laboratory

.5 Unit

Degree Applicable

27 hours lab

Coreauisite: CISW 31

Plan, install and manage secure Apache Web servers using server side programming language like PHP to access, manage and secure MySQL databases. Student must be enrolled in CISW 31, a concurrent lecture co-requisite.

■ 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.

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 MATH71X

Advisory: Eligibility for ENGL 1A

Computer hardware and software. General computer organization and information representation. Binary and hexadecimal number systems. Algorithm design and problem-solving techniques. Introduction to programming using a high level language (C, C++ or Java).

■ CSCI 140 — C++ Language and Object Development 4 Units Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: CSCI 110

For computer science, mathematics, engineering and other science students. 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. 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 Prereauisite: CSCI 110

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 Prereauisite: CSCI 110 Coreauisite: 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 or CSCI 145

Complements the lecture material in CSCI 150. Development/debugging of assembly language programs.

■ CSCI 170 — Introduction to Unix Operating System 3.5 Units Degree Applicable, CSU, UC

54 hours lecture

27 hours lab

Prerequisite: Completion of CSCI 110

Introduction to the UNIX operating system, system administration and networking. Topics include: process synchronization and communication mechanisms, process management, scheduling and protection, memory organization and management, virtual memory, I/O devices management, file systems, networking, system administration for UNIX.

■ CSCI 190 — Discrete Mathematics Applied to Computer Science

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 71 or equivalent

A study of set theory, propositional and predicate calculus, modular arithmetic, counting techniques, combinatorics, mathematical induction, recursion, binary search trees, graphs and finite probability. For students in computers science, engineering, mathematics and other sciences.

■ CSCI 210 — Applied Logic for Computers 3 Units

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, seguential elements and networks.

■ CSCI 220 — Data Structures I

3 Units

4 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

Corequisite: CSCI 220

An independent study program designed to complement the lecture material presented in CSCI 220, Data Structures I. Hands-on computer work on topics including abstract data types, running time analysis tools, linear data structures, 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 230 — Data Structures II

3 Units

Degree Applicable, CSU, UC

54 hours lecture Prerequisite: CSCI 220 Corequisite: CSCI 230L

Searching algorithms, sorting algorithms, hash tables, graphs, memory/disk management, B-trees, advanced tree structures and analysis.

■ CSCI 230L — Data Structures II Laboratory

oratory 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 basic searching/sorting algorithms, hashing, graphs, memory/disk management, indexing, B-trees, advanced tree structures and analysis.

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. Includes: 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

Personal computer (PC) servicing. Includes isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam.

■ CNET 56 — Computer Networks

4 Units Degree Applicable

54 hours lecture

54 hours lab

Advisory: CNET 54 taken prior

Standards, terminology, design, implementation and troubleshooting techniques as they relate to both local and wide area networks. Emphasis on hardware and software components, network architecture and data transmission methods. Of special interest to computer and network technicians and those seeking certification in A+, Network+, or other certifications.

■ CNET 58 — Server Systems

3 Units

Degree Applicable

36 hours lecture 54 hours lab

Advisorv: 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 Advisory: 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

The field of corrections: county jail, probation, the California Youth Authority and the Department of Corrections as members of the Criminal Justice System. Includes philosophy, past and 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. Students will visit an offsite facility.

■ 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 survey of racial, cultural, and gender biases in the American corrections system. Impact of cultural, racial and gender differences on correctional staff and client interaction.

■ 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 client and agency will be stressed.

■ CORS 40 — Crime and Delinquency

3 Units Degree Applicable

54 hours lecture

Criminology theories, criminal offender traits, crime prevention strategies, juvenile delinquency, and the impact of crime on 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 an

(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

Prereauisite: Eliaibility for ENGL 68

Evaluates career options using a systematic approach to self-exploration and the career and life planning process including 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: Eliaibility 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

Explores and develops strategies and techniques to be an effective college student as a single parent. Strategies include time management, study skills, college resources, decision making, goal setting, career exploration and educational planning.

■ COUN 99A — Special Projects in Counseling .5 to 2 Units Degree Applicable, CSU

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. A field trip may be required.

DANCE: ACTIVITY

■ DNCE 1 — Ballet Fundamentals

.5 to 2 Units

Degree Applicable, CSU, UC

(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.

■ DNCE 2A — Ballet I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Beginning vocabulary, technique, and movement combinations for ballet. Includes barre work, center floor work, floor progressions, preparation for turning, and musicality and phrasing.

■ 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 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, forms and compositional design.

■ DNCE 11A — Social Dance Forms I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

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. Off-campus assignment may be required.

■ DNCE 11B — Social Dance Forms II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

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.

■ DNCE 12A — Modern I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Basic vocabulary, technique, and movement combinations for modern dance.

■ 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.

■ 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 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.

■ DNCE 14B — Jazz II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Intermediate vocabulary, technique, and movement combinations for jazz dance. Includes warm-up, progressions and center floor routines.

■ DNCE 15 — Jazz Performance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Introduces the experienced dancer to the performance styles and techniques of jazz dance. Includes advanced warm-up, floor progressions and performance of complex jazz dance routines.

■ DNCE 17 — Jazz Fundamentals

.5 to 2 Units

Degree Applicable, CSU, UC

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

■ DNCE 18A — Tap I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Beginning level technique, rhythms and routines for tap dance.

■ DNCE 18B — Tap II

.5 to 1 Unit

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

(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.

■ DNCE 19 — Tap Performance

.5 to 1 Unit

(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.

■ DNCE 22 — Dance Rehearsal

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Designed for the experienced dancer to work in a rehearsal environment and to be a participant in the beginning elements of concert production.

■ DNCE 24 — Dance Production

1 to 2 Units

Degree Applicable, CSU, UC

(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.

■ DNCE 28 — Theater Dance I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Simple dance excerpts from various theater musicals and/or movies.

■ DNCE 29 — Theater Dance II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Advanced theatre dance variations for the technically skilled dancer drawn from a variety of theater musicals and/or movies. Includes concepts of acting and staging incorporated with musical theatre choreography.

■ DNCE 30 — Contemporary Dance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Opportunity for the beginning to advanced dancer to experience different techniques of leading contemporary dancers and choreographers.

■ DNCE 31 — Classical Dance

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours lab

Advanced ballet repertoire focusing on the different schools of technique including Balanchine, Bournonville, and Vaganova.

■ DNCE 32 — Commercial Dance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Provides the intermediate to advanced jazz dancer the opportunity to experience the different techniques of leading commercial dancers, teachers and choreographers.

■ DNCE 33 — Improvisation

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

Improvisation in dance and choreography. For all levels of dance.

■ DNCE 34 — Dance Directives

.5 to 1 Unit

Degree Applicable, CSU

(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.

■ 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab

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.

■ DNCE 39B — Alignment and Correctives II

Degree Applicable, CSU, UC

.5 to 1 Unit

(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.

■ DNCE 40 — Conditioning Through Dance

Degree Applicable, CSU, UC

(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.

■ DNCE 41 — Pilates I

.5 to 1 Unit

.5 to 1 Unit

Degree Applicable, CSU, UC

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

36 to 54 hours lab

Advisory: DNCE 39A

Pilates beginning and intermediate Mat work and beginning Reformer. Includes Pilatesstick and the Magic Circle.

■ DNCE 42 — Pilates II

.5 to 1 Unit

Degree Applicable, CSU, UC

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

36 to 54 hours lab

Advisory: DNCE 41

Pilates intermediate mat, Reformer and Pilatesstick. Beginning Wunda Chair, Step Barrel and Ped-a-Pul. Includes use of physiohall in Mat work

■ DNCE 43 — Pilates III

.5 to 1 Unit

Degree Applicable, CSU, UC

36 hours lab

Prerequisite: DNCE 42

Pilates intermediate and advanced mat, Reformer (with use of Jumpboard), Wunda Chair (with use of split pedal), and Pilatesstick. Includes beginning Cadillac and High Barrel.

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

Theatrical dance in western civilization. History of dance in chronological sequence emphasizing the cultural background and historical development of various forms and styles of dance to include discussion of the influence of theatrical dance on other art forms.

■ DN-T 27 — Theory and Principles of Pilates

3 Units

Degree Applicable

54 hours lecture

Prerequisite: 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

Degree A

36 hours lecture

Functional human anatomy as applied to the Pilates method of conditioning.

■ DN-T 29 — Teaching Pilates Mat Repertoire

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 Un

Degree Applicable

18 hours lecture

36 hours lab

Prerequisite: DN-T 29

Learning to teach the Pilates Reformer exercises and principles. All levels are covered with a focus on the development of correct neuromuscular patterning.

■ DN-T 31 — Pilates Teaching-Mat and Reformer

Degree Applicable

3 Units

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, self-integration, assistant teaching, one-on-one teaching and content. Off-camous 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.

■ 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

Corequisite: 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

3 Units ■ DSPS 10 — College Success Strategies for Students with Disabilities

Not Degree Applicable

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

54 hours lecture

Advisory: Eligibility 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 Students with Disabilities

Not Degree Applicable

3 Units

(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 — Career Exploration for Students with Disabilities

Not Degree Applicable

1 Unit

(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.

■ DSPS 20 — Improving Spelling and Reading of Words 3 Units

Not Degree Applicable

(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.

■ DSPS 30 — Academic Success Strategies for 1 Unit Students with Disabilities

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lab

Strategies for academic success intended for students with physical or learning-related disabilities. Addresses language. memory and reasoning with subject-specific techniques.

■ DSPS 31 — Memory Strategies for Students 3 Units with Disabilities

Not Degree Applicable

(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. Focuses on the memory process, improving specific memory components, identifying key concepts to memorize, and the independent application of memory strategies to other academic courses.

■ DSPS 32 — Technology for Students with Learning Disabilities

3 Units

Not Degree Applicable

(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

Not Degree Applicable

3 Units

3 Units

3 Units

(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.

■ DSPS 34 — Writing Strategies for Students with Disabilities

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 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 Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Survey of the teaching profession, including teaching and learning styles, state content standards and testing, recent California and national legislation, social issues, school funding and teacher and student rights and responsibilities. Off-site assignments may be required.

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

Personal computer (PC) applications used in electronics technology. Includes word processing, spreadsheets, database, computer presentation methods, and internet research specifically designed for electronics technology.

■ 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 - Direct Current (DC) 4 Units Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: Eliaibility for MATH 51

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 — Semiconductor Devices and Circuits 4 Units Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: ELEC 50B

Solid-state devices and circuits, including bipolar-junction and field-effect transistors, rectifier diodes, operational amplifiers, and thyristors. Analog circuits studied include discrete and integrated circuit amplifiers, voltage regulators, oscillators and timers. Emphasizes configurations, classes, load lines, characteristic curves, gain, troubleshooting, measurements, and frequency response.

■ ELEC 53 — Communications Circuits

4 Units

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

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

ems 3 Units
Degree Applicable, CSU

36 hours lecture

54 hours lab

Systems application of industrial electronics including 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 50B taken prior

Microwave components and circuits. Stresses transmission lines, Smith Charts, impedance matching, antenna characteristics, wave propagation, 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

18 hours lecture

54 hours lab

Advisory: ELEC 61

Advanced course in assembly and repair (soldering) on surface mount assemblies (SMT). 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

Prerequisite: ELEC 62

Prepares the technician as an Application Specialist for the IPC-7711/IPC-7721 Rework and Repair of Electronic Assemblies certification. (Note: Industry requires recertification every two years.)

■ ELEC 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 — FCC General Radiotelephone Operator 2 Units License Preparation

Not Degree Applicable

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

18 hours lecture

54 hours lab

Advisory: ELEC 50A and ELEC 50B

Prepares qualified electronics and aviation technicians for the FCC commercial general radiotelephone operator license (GROL).

■ ELEC 81 — Laboratory Studies in Electronics Technology

1 to 2 Units

Degree Applicable

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 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.

ELECTRONICS SYSTEMS TECHNOLOGY

■ EST 50 — Electrical Fundamentals for Cable Installations

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Electrical fundamentals for cable and wire installations, and other low voltage systems. Includes DC/AC, solid-state devices, digital and microprocessor devices and their application to cable installations. Prepares students for the California State Contractors C-7 low voltage systems license.

■ EST 52 — Fabrication Techniques for Cable Installation

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Fabrication techniques used in the installation of home theater, computer networks, home automation, and other low voltage system applications. Emphasis on hand and power tools, construction methods and materials as they apply to cable and wire installations. Prepares students for the California State Contractors C-7 low voltage systems license.

■ EST 54 — Cabling and Wiring Standards

Degree Applicable

4 Units

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

Advisorv: 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.

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 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 1.5 Units Degree Applicable

18 hours lecture

6 hours lab

Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 30, EMS 40, EMS 50, and EMS 60 Certifies students in Basic Life Support, Healthcare Provider (BLS-HCP), Pediatric Advanced Life Support (PALS), and Advanced Cardiac Life Support (ACLS) according to the standards of the American Heart Association (AHA).

■ 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

4 Units Degree Applicable, CSU, UC

(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

Prerequisite: PHYS 4A

Vector approach to 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.

■ ENGR 41 — Dynamics

3 Units

Degree Applicable, CSU, UC

54 hours lecture Prerequisite: ENGR 40

Vector approach to classical mechanics including 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, and introduction to mechanical vibrations.

■ ENGR 42 — Mechanics of Materials

4 Units

Degree Applicable, CSU, UC

72 hours lecture Prerequisite: 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

54 to 108 hours lab

Electrical circuit analysis including applications of Kirchoff's Laws and Thevenin's Theorems to DC and AC circuits. Fundamental principles including steady state and transient circuit response; complex impedance and admittance, Fourier and Laplace transforms and three-phase circuits. Application of fundamental circuit principles to operational amplifier and transistor circuits.

■ ENGR 99 — Special Projects in Engineering

ring 1 to 2 Units
Not Degree Applicable

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.

ENGINEERING DESIGN TECHNOLOGY

■ EDT 11 — Technical Engineering Drawing I

ing I 3 Units
Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: Eligibility for MATH 51

Basic skills for a solid foundation in the Engineering Drawing or Computer-Aided Design fields. Involves application, basic sketch, theories and design processes used in engineering and industrial drawings. Completion of a portfolio is a requirement of this course.

■ EDT 12 — Technical Engineering Drawing II 3 Units

Degree Applicable, CSU

36 hours lecture 72 hours lab Advisory: EDT 11

Advanced applications, automated techniques, dimensioning, tolerancing, fasteners, piping, circuit board design, theory used in engineering and industrial drawings. Students will complete a set of working drawings in either manual or CAD for inclusion in a portfolio.

■ EDT 14 — Mechanical Design - Geometric Dimensioning and Tolerancing

3 Units

Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisory: EDT 11, EDT 12

Use of symbols for tolerance of form and tolerance of position and drawing requirements with respect to actual function and relationship of part features. Studies of related terminology, power transmission, bearing and mechanical devices, related exercises including design layout, details and assembly drawings. Completion of a portfolio is a requirement of this course.

■ EDT 16 — Basic CAD and Computer Applications 4 Units Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: Eligibility for MATH 51

Basic CAD (Computer Aided Design and Drafting) and computer application in 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 16

Intermediate CAD for engineering, explores the 2-D and 3-D environments, 3-D parametric solid modeling.

■ 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

71 hours lab

Advisory: EDT 18

Advanced engineering CAD for developing detailed working drawings in 3D environments, incorporating 3D parametric solid modeling, bill of materials, and surface development.

■ EDT 26 — Civil Engineering Technology and CAD 3 Units Degree Applicable, CSU

36 hours lecture

71 hours lab

Advisory: EDT 11 AND EDT 16

Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CAD) applications. Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CAD drawings produced for a final portfolio.

■ EDT 28 — Engineering CAD 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 for Pass/No Pass only)

75 to 150 hours lab

Prerequisite: Application approved by department faculty and compliance with Work Experience regulations as designated in the College Catalog

Provides on-the-job experience at an approved work site which is related to classroom instruction in Engineering Design Technology. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. If this is a volunteer program on or off campus, a minimum number hours per month will be required as part of the 60 hour total.

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

3 Units

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 discus-

■ ENGL 8B — Creative Writing - Poetry

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

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 discus-

■ 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, UC

(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

Prerequisite: 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 9A — Writing the Personal Journal

Degree Applicable

3 Units

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

Prereauisite: Eliaibility for ENGL 1A

Personal exploration, development of creativity, increased comfort with the writing process, and expanded awareness of others' lives through journal writing.

■ 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

Prereauisite: 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

Emphasizes sentence, outlining, summary, paragraph and essay skills, and critical thinking through combining reading and writing.

■ ENGL 68 — Preparation for College Writing

4 Units Degree Applicable

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

Prerequisite: ENGL 67 or AMLA 43W or satisfactory score on the English Placement Test

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

2 Units

Degree Applicable, CSU

(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.

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

3 Units

54 hours lecture

Prerequisites: ENGL 68 or passing score on current placement test Analyzes the representative contributions of three or four diverse groups to American literature and culture. Covering a wide spectrum of historical periods and literary genres, the course will focus on issues of ethnic identity, assimilation, acculturation, cultural pluralism, and family and gender roles in order to heighten awareness of diversity in America. Representative literature groups may include African American, Hispanic American, Native American, Asian American, Gay and Lesbian American, disability groups and religious groups.

■ LIT 6A — Survey of English Literature

3 Units

Degree Applicable, CSU, UC

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
Prerequisite: 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
Prerequisite: 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

Degree Applicable, CSU, UC

3 Units

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

Prerequisite: ENGL 1A

Explores the broad range of human experience inherent in the study of film as art. Using a number of films drawn from various genres, examines film from historical, social, technological and

■ LIT 20 — African American Literature 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

aesthetic perspectives.

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 skills for effective self-management now and in the future. Examine theories of life management including Maslow's Hierarchy of Needs and how it can be applied to daily use of one's resources including energy, abilities, priorities, and money. Major topics include steps in value clarification, goal setting, resource allocation, decision-making, priority management, money management, workplace management, communication skills and healthy habits. In addition, the course explores the effect of cultural forces and future trends.

■ 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

Dogroom

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 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.

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

ion 3 Units Degree Applicable, CSU

54 hours lecture

Survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on styledevelopment 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

Essentials of industry standard apparel construction techniques using a variety of machines and equipment. Students will be given instruction in single needle machine operation, industrial overlock operation, and garment assembly.

■ FASH 12 — Clothing Construction II

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: FASH 10

Advanced industry construction techniques using overlock and single needle machines.

■ FASH 15 — Aesthetic Design in Fashion

3 Units

Degree Applicable, CSU

e | 54 hours lecture

Prerequisite: FASH 25

Design principles and influences in apparel selection and fashion design. Projects applying design elements and principles using CAD software

■ 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

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, patterns 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

Advisory: FASH 21

Three dimensional dress design through draping fabrics directly to a dress form to create original designs and patterns to interpret fashion illustrations and technical flats.

■ FASH 23 — Patternmaking II

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: FASH 21 and FASH 25

Intermediate pattern drafting and flat patternmaking, with an introduction to the grading of patterns and technical packages. Development of patternmaking skills to include drafting flat patterns from measurements, creating advanced sleeves and collars. Students apply patternmaking theories to create ready-to-wear sportswear designs for missies and women's wear.

■ FASH 24 — Fashion Patternmaking by Computer

uter 3 Units
Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: 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

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 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

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.

■ FASH 62 — Retail Buying and Merchandising 3 Units Degree Applicable, CSU

54 hours lecture Advisory: MATH 51

Principles and practices used in the retail buying and merchandising environment. This course emphasizes the buyer's role in merchandising management, pricing strategies, promotion, retail formulas, and costing calculations.

■ FASH 63 — Fashion Retailing and Promotion 3 Units

Degree Applicable, CSU

54 hours lecture

Principles and techniques of advertising and promoting apparel wholesale and retail products. Emphasis placed on promotional mix, trend and forecast research, branding, special events, integrated marketing, promotional media, and communication strategy.

■ FASH 66 — Visual Merchandising Display 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

Prerequisite: FASH 25 or ARTC 140

Design principles, color theory, space and lighting in relation to visual merchandising display areas and interior design of stores using various applications of computer graphics programs.

■ FASH 81 — Work Experience in Fashion Merchandising and Retail

1 to 3 Units

Degree Applicable

(May be taken for Pass/No Pass only)

75 to 225 hours lab Prerequisite: FASH 8

Provides fashion merchandising students with actual on-thejob 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 in apparel merchandising. buying and/or retail business required for each one unit of credit. Students are responsible for securing their own internships and must be ready for the first week of class.

■ FASH 90 — Field Studies

1 Unit Degree Applicable

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.

■ FASH 91 — Field Studies - New York

2 Units Degree Applicable

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.

■ FASH 92 — Field Studies - Fashion Capitals

3 Units Degree Applicable

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.

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

History of fire prevention, including codes, ID and correction of hazards, investigation, and public safety education.

■ FIRE 3 — Fire Protection Equipment and Systems 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1

Portable fire extinguishing equipment, sprinkler and standpipe systems, protection systems for special hazards, fire alarm and detection systems and maintenance, design and operation of sprinkler systems, water supply, pump, tanks and connections.

■ 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 pre-planning, 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

Advisory: Fire 1

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, protocols 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 staff, equipment and extinguishing agents, fire command and control procedures, understanding types of building construction as it relates to fire control, review of fire chemistry, pre-fire planning, organized approach to decision making on the fire scene, basic firefighting strategy and tactics.

■ 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

Mathematics, hydraulic laws and formulas as applied to fire service. Application of formulas and mental calculation to hydraulic problems, water supply problems, and underwriter requirements for pumps.

■ FIRE 10 — Arson and Fire Investigation

3 Units

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1 or equivalent taken prior

Cause, origin, arson, incendiaries, related laws and types of incendiary fires. Methods of determining fire cause, recognizing and preserving evidence, interviewing and detaining witnesses, adult and juvenile fire setters, court procedure and testimony.

■ FIRE 11 — Fire Apparatus and Equipment

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 13 — Principles of Fire and Emergency 3 Units Services Safety and Survival

Degree Applicable, CSU

54 hours lecture

Advisory: Fire 1

Fire Technology principles. History of the National Firefighter Life Safety Initiative and need for cultural and behavioral change. This course meets the National Fire and Emergency Services Higher Education objectives as it pertains to firefighter safety and survival techniques used in today's fire service.

■ 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)

Coreauisite: 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 Ladder Orientation

Not Degree Applicable

1 Unit

(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

Not Degree Applicable

(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.

FRENCH

■ FRCH 1 — Elementary French

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Beginning course for students without prior 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

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

French 4 Units Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: FRCH 3

Continued development of intermediate-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

Further insight into the cultures of France and other Frenchspeaking countries using 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

Prerequisite: FRCH 2

Intermediate level fluency through expansion of vocabulary and practical use of language.

3 Units

Conversational French

■ FRCH 54 — Continuing Intermediate

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: FRCH 3 or FRCH 53 or equivalent

Continuing to intermediate fluency through further expansion of vocabulary and practical use of language.

■ FRCH 60 — French Culture Through Cinema

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 contemporary 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

Prerequisite: Eligibility 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 1 Unit Degree Applicable, CSU, UC

54 hours lab

Corequisite: GEOG 1 or GEOG 1H (may have been taken previously) Geographical 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 observations, experiments, and demonstrations
in a laboratory setting to explore natural earth processes and

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

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 2 H.

■ 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

Degree Applicable, CSU, UC

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

54 hours lecture

Geographical analysis of past and current patterns of world urbanization. Emphasis is on city origins, growth, development, and current problems. Off-campus assignments may be required.

■ GEOG 10 — Introduction to Geographic 3 Units Information Systems

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Advisory: Eligibility for ENGL 68

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 Systems (GIS)

Degree Applicable

3 Units

3 Units

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

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 — Service Learning for Geography Laboratory

.5 to 2 Units

Degree Applicable, CSU

(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

36 hours lecture

Offers students recognition for their academic interests in geography and the opportunity to explore the discipline of geography in greater depth. The content and methods of the course vary from semester to semester depending on the particular project under consideration.

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

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. 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 or 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

Advisorv: ENGL 1A

Human interactions with the geological environment for nonscience majors. Relevant aspects of the geological environment and the problems currently caused by 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 required.

■ 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 required.

■ 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

18 hours lecture

108 hours lab

Advisorv: 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 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.

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

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

Communicative proficiency in German and exploration of Germanic culture. Further study and review of grammar and expansion of vocabulary. Increasing emphasis on reading and writing in German.

HISTORY

■ HIST 1 — History of the United States

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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: Eligibility 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 - Honors

3 Units

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

Deg

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

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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: 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

History of the 19th Century Trans-Mississippi West (also known as the Wild West or the 19th Century American West) including significant historical, economic, and political events and personalities which make up this time period.

■ HIST 19 — History of Mexico

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Cultural and social history of the Mexican people from pre-Colombian civilization to modern Mexico.

■ HIST 30 — History of the African American 1619-1877 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

The history of African Americans from 1619 to 1877, 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

Prerequisite: Eligibility for ENGL 68

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

Prerequisite: Eligibility for ENGL 68

The social, intellectual, economic, and political development of California and the Pacific Coast from earliest times to the present.

■ HIST 40 — History of the Mexican American 3 Unit

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

U.S. history from colonial times to the present with a special emphasis on the role of Mexican Americans in the development of the nation. Satisfies the requirement for a course in American History, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code.

■ HIST 44 — History of Native Americans

3 Units

Degree Applicable, CSU, 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

Prerequisite: Eligibility ENGL 1A

Offers 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. Instructor authorization needed prior to enrollment.

HISTOTECHNOLOGY

■ HT 1 — Introduction to Histotechnology

1 Unit

Degree Applicable

18 hours lecture

Advisory: Eligibility for ENGL 1A

The role of histotechnicians in preparation and analysis of tissues samples for diagnostic and research purposes. Internet resources, support organizations and periodical references for histotechnicians, as well as regulatory agencies. Set up of an educational plan and portfolio to be used throughout 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

Advisory: 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 Prerequisite: HT 12

Practical applications of special stains for carbohydrates, amyloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to frozen sections, cytology preparation, and microwave technology. 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 for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: HT 12 and compliance with Work Experience regulations as designated in the College Catalog

Provides histotechnology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester.

HOSPITALITY AND RESTAURANT MANAGEMENT

■ HRM 51 — Introduction to Hospitality

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Hospitality industry segments and types of operations with an emphasis on career opportunities. Includes an overview of: tourism, lodging, restaurants, managed services, gaming, recreation, event management, leadership, and marketing.

■ HRM 52 — Food Safety and Sanitation

1.5 Units Degree Applicable, CSU

27 hours lecture

Prerequisite: Eligibility for ENGL 68

Principles of food safety and sanitation in the food service industry. Emphasis on the role of management in creating and implementing a culture of applied food safety practices within the work place. Students must pass the ServSafe Food Protection Manager Certification exam to get credit for this course.

■ HRM 53 — Dining Room Service Management 3 Units Degree Applicable, CSU

54 hours lecture

Skills and knowledge needed for all aspects of dining room service. Exploration of the various styles of service. Table setting styles, buffet set-ups, wine and beverage service, and service as a sales tools are covered. Safety of both customer and staff are discussed. Field trip required.

■ HRM 54 — Basic Cooking Techniques

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: HRM 52

Professional cooking, tasting, and evaluating techniques for commercial operations. Emphasis on identification and use of proper equipment and ingredients in the production of: stocks, sauces, soups, salads, dressing, meats, poultry, fish, vegetables, starch, and dessert. Uniform and student knife set required. Students must be ServSafe Manager Certified.

■ HRM 56 — Hospitality Supervision

3 Units

Degree Applicable, CSU

54 hours lecture

Human resource management procedures and skills needed to hire, train, and manage employees in the hospitality industry. Role, responsibilities, and legal issues related to supervision. Application of management techniques including: effective communication, recruitment, selection, training, coaching, team building, performance evaluation, discipline, and conflict management.

■ HRM 57 — Hospitality Cost Control

3 Units

Degree Applicable, CSU

54 hours lecture

Corequisite: HRM 51 (May have been taken previously)

Analyzing and managing: food, beverage, labor, and other costs within a hospitality operation. Emphasis on problem solving, applying cost control techniques to maximize profits while managing expenses. Topics include: establishing standards, cost-volume-profit analysis, forecasting, purchasing and storage controls, menu costing and pricing, theft prevention and labor control.

■ 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

(May be taken four times for credit)

54 hours lecture

Advisorv: HRM 51

Menu development, design, and analysis. Emphasis on demographics and market research, facility assessment, costing, pricing, menu analysis, menu design and layout. Includes a practical concept-to-creation capstone project.

■ 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 3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: BUSA 11 or Eligibility for MATH 50

Financial accounting specific to hospitality businesses. Emphasis on: bookkeeping, financial statements development and analysis, and 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

Advisory: HRM 51

Business law topics as they relate to the hospitality industry. Principles of negligence, civil rights, contracts, liability, rights of guests and innkeepers, and labor law are covered. Field trip required.

■ HRM 70 — Introduction to Lodging

3 Units

Degree Applicable, CSU

54 hours lecture

Operations in the lodging industry including: hotel organization, front office operations, reservations, registration, guest services, security, front office accounting, housekeeping, night audit, sale and marketing, planning and evaluating, revenue management, and human resources. Independent field trips required for this course.

■ 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

e 1 to 4 Units Degree Applicable, CSU

(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.

HUMANITIES

■ HUMA 1 — The Humanities

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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. Off-campus assignments may be required.

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

Coreauisite: 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 portfolio-based 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

Coreauisite: 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

Coreauisite: 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

Legal aspects of the construction industry involving the owner, contractor, builder or developer and design professional. Includes codes, licensing, contracts, bonds, and lien laws. May include off-campus assignments.

■ INSP 67 — Reading Construction Drawings

3 Units Degree Applicable

54 hours lecture

Reading construction drawings as they apply to architecture, construction, interior design, and related fields. Off-campus assignments required.

■ INSP 70 — Elements of Construction

3 Units

Degree Applicable, CSU

54 hours lecture

Construction processes, terminology and procedures. Topics include construction careers, building systems, sustainability, quality control, management and scheduling of resources (materials, equipment, time, personnel and finance).

■ 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

Degree Ap

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 3 Units Degree Applicable, CSU

36 hours lecture

54 hours lab

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

Advisory: ID 10

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

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

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

Degree Ap

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

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prereauisite: ID 22 or ARCH 11

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

Prerequisite: ID 22 or ARCH 11

Advisory:ID 25

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

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 Prereauisite: ID 26

Advisories: ID 12. ID 21. ID 27

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

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

Prereauisite: 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

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 for Pass/No Pass only)

75 to 225 hours lab

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

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.

■ 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

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 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.)

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.

■ ID 50 — Interior Design Specialized Studio

3 Units Degree Applicable

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. Portfolio pieces will be produced. Field trips may be required.

■ ID 52 — Independent Studies in Interior Design 1 to 3 Units Degree Applicable

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. 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. Begins to develop the ability to converse, read, and write in Italian. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Italian culture.

■ ITAL 2 — Continuing Elementary Italian 4 Units

Degree Applicable, CSU, UC

72 hours lecture
Prerequisite: ITAL 1

Further development of conversational, reading and writing skills in Italian with special emphasis on verbs, grammar and extension of vocabulary. Includes 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

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

Degree Applicable, CSU, UC

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

72 hours lecture

Prerequisite: ITAL 3

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 52 — Conversational Italian

3 Units

4 Units

Degree Applicable

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

54 hours lecture

Prerequisite: ITAL 1

Development of elementary Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context.

■ ITAL 53 — Continuing Conversational Italian 3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: ITAL 2 or ITAL 52

Development of intermediate Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context.

■ ITAL 54 — Advanced Conversational Italian 3 Units

Degree Applicable, CSU, UC

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

- - - - - -

Prerequisite: ITAL 3 or ITAL 53

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.

■ ITAL 60 — Italian Culture Through Cinema

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 - present 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

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

Japanese 4 UnitsDegree Applicable, CSU, UC

72 hours lecture

Prerequisite: JAPN 1

Further development of elementary skills in Japanese including conversational, reading, and writing skills with special emphasis on verbs, grammar, and extension of vocabulary. Includes a discussion of Japanese culture.

■ JAPN 3 — Intermediate Japanese

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: JAPN 2

Continued development of writing ability emphasizing development of thought through Kanji, Hiragana and Katakana. Additional development of cultural application of Japanese.

■ JAPN 4 — Continuing Intermediate Japanese 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: JAPN 3

Continuing intermediate 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

Japanese communication skills with emphasis on conversational skills for daily and social settings in Japanese culture. Advanced study of grammar, vocabulary, Kanji characters, listening, speaking, reading, and writing. Extensive exposure to cultural elements from Japan such as art, music, film, and history.

■ JAPN 53 — Conversational Japanese

se 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 — Introduction to Mass Media 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Mass media and interrelationships with society, including history, structure, and trends. Additionally, the following topics will be covered as they pertain to the mass media: economics, law, ethics, technology, and such social issues as gender and cultural diversity.

■ JOUR 101 — Beginning Newswriting 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 1A

Gathering, organizing and writing news in journalistic style across multiple platforms. Writing and reporting based on original interviews and research. Covering meetings, speeches and events, writing under deadline, and the use of Associated Press (AP) Style. Role of the journalist and related legal and ethical issues.

■ JOUR 102 — Intermediate Newswriting 3 Units

Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: JOUR 101

Newsgathering, organizing and writing news and features in journalistic style across multiple platforms. Public affairs, local and regional government, police, courts, arts and entertainment, and sports beats writing and reporting on and off campus.

■ JOUR 103 — Writing for the Newspaper and Magazine 2 Units Degree Applicable

(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.

■ JOUR 104 — Student Media Photography Lab 2 Units Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Practical lab experience in the creation, preparation, and publishing of photos for the student newspaper, magazine, and online media. Provides learning through the use of digital cameras, Photoshop image editing, emerging technology, and scanners. Students may choose to use their own digital cameras, but digital cameras are available in the newsroom for checkout.

■ JOUR 105 — Editor Training

1 Unit

Degree Applicable

(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.

■ JOUR 106 — Online New Media Laboratory 2 Units

Degree Applicable, CSU

(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.

■ 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

Prereauisite: Eliaibility ENGL 1A

Role of mass media and advertising in the integration of minorities, cultures, women, and lesbians, gays-bisexuals, and transgenders LGBT) into American society. Examines how the mass media impacts public attitudes.

■ JOUR 108 — Writing for Public Relations

3 Units

Degree Applicable, CSU

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

Prereauisite: JOUR 101

Theory, principles and professional practice of public relations. Concepts of planning and executing effective communication strategies including writing news releases and press pieces, and writing for and distribution through traditional, online and social media outlets, for any organization.

■ JOUR 109 — Public Relations Internship

3 Units

Degree Applicable

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

Advisory: JOUR 108 or JOUR 8

Field work in public 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.

■ 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

Advisory: JOUR 101

Writing and production of a student-run magazine. Artistic design, harmony, creativity and layout are stressed. Writing and editing magazine features, designing pages, selecting photographs and illustrations, preparing them for production; working under deadlines and other aspects of the magazine business are included.

■ 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

1

(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.

■ JOUR 114 — Student News Media Staff

3 Units Degree Applicable, CSU

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

18 hours lecture

108 hours lab

Newsroom lab setting writing and producing the college student news publications. Researching, writing and editing articles for both publications; photography, videography, and multimedia to create stories and images for print, web and broadcast; layout, design and graphic illustrations. Basic fundamentals of journalism law and ethics.

■ JOUR 115 — Student News Media Editing Staff

ng Staff 3 Units
Degree Applicable, CSU

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

108 hours lab

Prereauisite: JOUR 114

Management and leadership involvement in writing and producing the college student print publications. Researching, writing and editing articles for both publications; photography, videography, multimedia, and emerging new technologies to create stories and images for print, web and broadcast; art direction, layout, design and graphic illustrations. Journalism law, copyright and ethics.

KINESIOLOGY: ADAPTIVE

■ KINL 2 — Physical Fitness for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

A modified physical fitness conditioning program incorporating cardiovascular training exercises, specifically designed for students with a disability or limitation.

■ KINL 4 — Adaptive Aquatics

1 Unit

1 Unit

Degree Applicable, CSU, UC

(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.

■ KINL 10 — Wheelchair Sports

Degree Applicable, CSU, UC

(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.

■ KINL 14 — Activity Programs for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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.

■ KINL 18 — Weight Training for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed to assist students with a disability or limitation develop strength, endurance, flexibility, and physical fitness through weight training.

KINESIOLOGY: AQUATICS

■ KINA 8A — Swimming - Beginning

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming ability.

■ KINA 8B — Swimming - Intermediate .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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.

■ KINA 8C — Swimming - Advanced .5 to 1 Unit

 ${\sf Degree\ Applicable,\ CSU,\ UC}$

(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.

■ KINA 14 — Water Polo

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamental water polo skills including conditioning, drills, and game situations.

■ KINA 18 — Springboard Diving

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Student must possess above average diving ability or experience in tumbling or gymnastics. Individualized instruction in the fundamentals and techniques of springboard diving.

■ KINA 20 — Aquatic Fitness

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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.

■ KINA 21 — Aqua Aerobics

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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.

■ KINA 24 — Aquatic Off-Season Conditioning .5 to 1 Unit Degree Applicable, CSU, UC

r grado or Pace/No Pace)

(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.

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 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

Conditioning course for athletes to develop muscular strength and endurance, flexibility, core training skills, and cardiorespiratory fitness.

■ 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

credit)

(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, UC

(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

 ${\sf Degree\ Applicable,\ CSU,\ UC}$

(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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of strength development and physical conditioning.

■ KINF 2B — Body Building - Advanced

ed .5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Advanced strength development and physical conditioning.

■ KINF 4 — Cardiovascular Conditioning

ning .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed to improve fitness levels through cardiovascular activities.

■ KINF 6A — Physical Fitness - Beginning .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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.

■ KINF 6B — Physical Fitness - Intermediate .5 to 1 Unit

Degree Applicable, CSU, UC

(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.

■ KINF 6C — Physical Fitness - Advanced .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Advanced components of physical fitness. Students integrate fitness components into a personal fitness program and participate in activities designed to improve overall fitness.

■ KINF 9 — Conditioning for Sports

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

A conditioning course for students and athletes to develop muscular strength and endurance, flexibility, core training skills, and cardiorespiratory fitness.

■ KINF 10 — Weight Training

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Muscular conditioning program using machines and free weights.

■ KINF 12 — Fitness and Body Conditioning .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Circuit training, aerobic activity, and overview of health concepts. Emphasis on nutrition, weight management, stress reduction, and the benefits of exercise on overall health.

■ KINF 13 — Exercise Dynamics

2 Units

Degree Applicable, CSU, UC

(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.

■ KINF 17 — Fitness Walking

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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.

■ KINF 18 — Fitness Fundamentals

2 Units

Degree Applicable, CSU, UC

(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.

■ KINF 19 — Strength Training

2 Units

Degree Applicable, CSU, UC

(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.

■ KINF 22 — Total Fitness

2 Units

Degree Applicable, CSU, UC

(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.

■ KINF 25 — Core Performance and Foundation Movement

1 to 2 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 to 108 hours activity

Body core training and foundation movement for students interested in improving their fitness level. Training and strengthening of the muscles that stabilize, align, and move the trunk.

■ KINF 34 — Cardiorespiratory Training

ing .5 to 2 Units Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity

Individualized exercise programs designed to improve cardiorespiratory performance.

■ KINF 36 — Circuit Training

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity

Muscular strength and endurance exercise on circuit training equipment.

■ KINF 38 — Aerobics

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity

Group aerobic exercise to improve cardiorespiratory efficiency.

■ KINF 50 — Physical Skills Preparation for Administration 2 Units of Justice and Fire Technology

Degree Applicable, CSU

(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.

■ KINF 51 — Agility Testing Preparation for Administration 1 Unit of Justice and Fire Technology

Degree Applicable, CSU

(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.

■ KINF 52 — Fitness and Conditioning for Administration 1 Unit of Justice, Fire Technology, and Forestry

Degree Applicable, CSU

(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.

■ KINF 53 — Physical Training for the Basic Fire Academy 2.5 Units Degree Applicable, CSU

(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.

■ KINF 59 — Firefighter Physical Ability Test

est .1 Unit Not Degree Applicable

(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.

KINESIOLOGY: INDIVIDUAL

■ KINI 4A — Badminton - Beginning

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Beginning badminton fundamentals and techniques, including singles and doubles play.

■ KINI 4B — Badminton - Intermediate .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate badminton techniques, including singles and doubles play.

■ KINI 4C — Badminton - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Advanced badminton techniques, including singles and doubles tournament play.

■ KINI 18A — Golf - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Golf fundamentals with an emphasis on technique, strategy, and rules.

■ KINI 18B — Golf - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Instruction 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 and off site classes required.

■ KINI 18C — Golf - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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. Clubs and off-campus classes required.

■ KINI 25 — Mixed Martial Arts

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

The sport of mixed martial arts. An integration of striking and close-combat martial arts.

■ KINI 27A — Jeet Kune Do - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals and principles of Bruce Lee's martial art. Emphasis on footwork, distance, and technique for combat efficiency in self-defense.

■ KINI 27B — Jeet Kune Do - Intermediate

diate .5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate principles of Bruce Lee's martial art. Intermediate level footwork, distance, and technique (punching, kicking, and grappling) for combat efficiency.

■ KINI 29 — Self Defense/Martial Arts

ts .5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic concepts of self-defense and martial arts. Covers technique in three ranges of combat: grappling, kick/punch, and weapons range.

■ KINI 30A — Filipino Martial Arts - Beginning .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

The Filipino martial arts of Esgrima and Arnis. Basic weapons training for defense in armed and unarmed scenarios.

■ KINI 30B — Filipino Martial Arts - Intermediate .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

The Filipino martial arts of Esgrima and Arnis. Intermediate weapons training for defense in armed and unarmed scenarios.

■ KINI 31A — Jiujitsu - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of Brazilian Jiujitsu. Basic positions, breakfalls, training techniques, strategy, finishing holds, competition, history, and philosophy. Students are required to provide their own Judo/Jiujitsu qi uniform.

■ KINI 31B — Jiuiitsu - Intermediate

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate Brazilian Jiujitsu. Transitioning from positions, countering submissions and finishing holds, application of strategy, competition, and philosophy. Students are required to provide their own Judo/Jiujitsu gi uniform.

■ KINI 33 — Kickboxing

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Presents the martial sport of kickboxing. Includes techniques for offense and defense, cardiovascular endurance, strategy and training modes.

■ KINI 34 — Women's Self Defense

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Techniques for personal protection and safety with emphasis on defensive tactics for women.

■ KINI 35 — Karate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of traditional karate. Includes form, technique, history and philosophy.

■ KINI 37A — Tai Chi Chuan - Beginning

ing .5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

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.

■ KINI 37B — Tai Chi Chuan - Intermediate .5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate tai chi chuan fundamentals and principles. Includes instruction in a traditional long form.

■ KINI 37C — Tai Chi Chuan - Advanced

ced .5 to 1 Unit
Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Instruction and practice for the experienced Tai Chi Chuan practitioner. Emphasis will be on the sword form.

■ KINI 40A — Tennis - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Beginning tennis fundamentals and techniques.

■ KINI 40B — Tennis - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Intermediate tennis techniques and strategies for the individual who has previous experience and instruction in tennis.

■ KINI 40C — Tennis - Advanced

.5 to 1 Unit
Degree Applicable, CSU, UC

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

36 to 54 hours activity

 $\label{lem:condition} Advanced tenn is techniques and strategies for the experienced player.$

■ KINI 44 — Track and Field

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic instruction, conditioning and training for the various track and field events.

■ KINI 48 — Wrestling

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Wrestling skills, fundamentals and match competition.

■ KINI 50A — Yoga

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Yoga instruction with emphasis on yoga postures, breathing techniques, relaxation strategies and philosophy.

■ KINI 51 — Iyengar Yoga

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Fundamentals of lyengar yoga. Basic postures, alignments, strategy, history and philosophy.

■ KINI 52 — Individual Sports

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Individual sports technique enhancement. Includes cardiorespiratory, flexibility, muscle strength and endurance training modes.

KINESIOLOGY: TEAM SPORT

■ KINS 2 — Basketball

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic skills, fundamentals, rules and strategies for team play in basketball.

■ KINS 10 — Soccer

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Soccer skills including dribbling, passing, collecting, shooting, goalkeeping, and game play.

■ KINS 13 — Football

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic skills, rules and strategies for team play in football.

■ KINS 16 — Softball

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Basic skills, rules and strategies for team play in the sport of slow-pitch softball.

■ KINS 19 — Team Sports

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Instruction in the skills, techniques, and strategies of game play in one or more team sports.

■ KINS 24A — Volleyball - Beginning

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Techniques and strategies of volleyball including passing, setting, hitting, and serving.

■ KINS 24B — Volleyball - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed for individuals with previous experience in techniques and strategies of volleyball.

■ KINS 24C — Volleyball - Advanced

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Designed for individuals with previous experience in advanced techniques and strategies of volleyball.

KINESIOLOGY: THEORY

■ KIN 3 — First Aid and CPR

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eliaibility for ENGL 68

Training 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

First responder training, training and certifications, including laboratory experience for developing the First Aid (FA) 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 (ARC) Certificate in Emergency Response and/or CPR for the Professional Rescuer.

■ KIN 13 — Sports Officiating

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Leadership training and administrative skills related to fitness specialists, personal trainers and physical educators. Current issues, 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 — Applied 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 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

Degree Applicable

3 Units

(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

Part of the Fitness Specialist Certificate covering 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

Coaching issues and problems facing the coach today and includes the philosophy, theory, and principles of developing and maintaining an athletic program. Designed for coaches at varying levels from youth league to high school varsity

■ KIN 50 — Mt. Sac Fire Academy Physical **Ability Entrance Exam**

Degree Applicable

1 Unit

(May be taken for Pass/No Pass only)

9 hours lecture

9 hours activity

Physical ability test for admission into the Mt. SAC Fire Academy. Candidates must be approved by Fire Technology Office.

■ KIN 81 — Work Experience for Coaching

2 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 150 hours lab

Prerequisite: Compliance with Work Experience regualtions as desiganted in College Catalog

Provides coaching and physical education students with onthe-job experience in approved worksites related to coaching. A minimum of 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.

■ KIN 85 — Fitness Specialist Internship

1 Unit

Degree Applicable

(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 quaranteed, but assistance is provided by the Fitness Certificate faculty advisor.

■ KIN 92 — Work Experience - Athletic Training 2 Units Degree Applicable

(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 nonpaid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Athletic Trainer faculty and staff.

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: Eligibility for READ 90 or eligibility for AMLA 33R 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. For students with little or no prior experience in Latin.

■ 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

Prerequisite: LATN 1

Advisory: Eligibility for READ 90 or eligibility for AMLA 33R Second semester of coursework for students with prior coursework in Latin. Development of vocabulary, grammar, and reading. Explores Roman history and culture.

LEADERSHIP

■ LEAD 55 — Exploring Leadership

3 Units

Degree Applicable, CSU

54 hours lecture

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 any environment including college life.

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

ory 1 Unit
Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lab

Individualized instruction in the following subjects: reading comprehension and vocabulary, writing, elementary math, algebra review, study techniques (note-taking, goal-setting, test-taking, etc.).

■ 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 | Page

(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: 1 Unit Interdisciplinary Connections

Degree Applicable

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: Eligibility 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 1 Unit

Degree Applicable, CSU, UC

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

Degree Applicable, CSU

2 Units

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

Advisory: MFG 38

Use MasterCAM software to create three-dimensional wire-frame 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

ng .5 to 2 Units
Not Degree Applicable

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, quadratic, rational, and radical equations; linear inequalities of one and two variables; slope/graphing/equations of lines; introduction to functions; systems of linear equations; exponent rules; polynomial operations; scientific notation; factoring; rational expressions; variation; radicals; fractional exponents; formulas: applications.

■ MATH 51A — Elementary Algebra - First Half

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; exponent rules; polynomial operations; scientific notation; factoring; solving quadratic equations by factoring; rational expressions and equations; formulas; 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 qualifyng 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 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 Not 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 approximately half of the MATH 71 topics. A student must complete both MATH 71A and 71B to have taken the equivalent of MATH 71, Intermediate Algebra.

■ 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

s 1 Unit Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Perspectives, understandings and strategies to utilize a learning system for acquiring, understanding, remembering and producing mathematical knowledge. Course is appropriate for all levels of mathematics students.

■ MATH 99 — Special Projects in Mathematics 2 Units

Degree Applicable, CSU

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.

■ 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 qeometry 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

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 150, or qualifying score on current department placement test.

Prepares students for the calculus sequence. Real-valued functions, including algebraic, trigonometric, exponential, and logarithmic functions. Also includes proofs, inequalities, introductory analytical geometry, series, sequences, and vectors.

■ MATH 180 — Calculus and Analytic Geometry 4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 160 or qualifying score on current department placement test

Differential and integral calculus with applications. Functions, limits, the derivative, curve sketching, optimization, rules for differentiation of algebraic, exponential, logarithmic, and trigonometric functions with their inverses, with applications. Indefinite and definite integrals.

■ 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 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, 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

Medical terminology used in various allied health fields.

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.

■ 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 PT

Degree Applicable

72 hours lecture

Prerequisite: MENT 56, MENT 56L

Corequisite: MENT 58L

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

Corequisite: 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

 ${\it Prerequisite: Admission\ to\ Psychiatric\ Technician\ Program}$

Coreauisite: 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 Disabled Person 7 Units

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 5.5 Units

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 Psychiatric Technicians Clinical

5.5 Units al 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

6 Units

Degree Applicable

108 hours lecture

Prerequisite: MENT 56 and MENT 56L

Corequisite: MENT 73L 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 Technology 2 Units

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.

METEOROLOGY

■ METO 3 — Weather and the Atmospheric Environment 3 Units Degree Applicable, CSU, UC

54 hours lecture

Processes that influence weather and climate: seasonality, structure of the atmosphere, atmospheric stability, severe weather (hurricanes, tornadoes, thunderstorms,) climate change, and the causes and effects of air pollution. Students will use a variety of weather instruments, and the course may include either field work or field trips.

■ METO 3L — Weather and Atmospheric **Environment Laboratory**

■ MUS 3A — Harmony - Diatonic 1 Unit

3 Units ■ MUS 6A — Musicianship - Chromatic I Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

1 Unit

54 hours lab

Degree Applicable, CSU, UC

Corequisite: METO 3 (May have been taken previously)

Laboratory applications and problem-solving related to the atmospheric environment. Emphasizes the collection and analysis of weather and climate data.

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.

54 hours lecture

Prereauisite: MUS 2 Corequisite: MUS 5B

An examination of harmony and form as it is practiced in Western tonal music. This course covers diatonic harmony, from its syntax to its contrapuntal conventions, with musical examples drawn primarily from Renaissance ground basses. American folksong and the chorales of Bach.

■ MUS 3B — Harmony - Chromatic I

3 Units

Degree Applicable, CSU, UC

54 hours lecture Prereauisite: MUS 3A Corequisite: MUS 6A

Harmony and form as it is practiced in Western tonal music. This course focuses on secondary chromaticism and modulation.

■ MUS 3C — Harmony - Chromatic II

3 Units

1 Unit

Degree Applicable, CSU, UC

54 hours lecture Prerequisite: MUS 3B Coreauisite: MUS 6B

Examination of harmony and form as it is practiced in Western tonal music with a focus on advanced chromatic harmony. The course concludes with a study of sonata form as practiced by Havdn, Mozart and Beethoven.

■ MUS 5A — Musicianship - Ear Training and **Sight Singing**

Degree Applicable, CSU, UC

54 hours lab Coreauisite: 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 - Diatonic

Degree Applicable, CSU, UC

54 hours lab

Prereauisite: MUS 5A Coreauisite: MUS 3A

Training in sight singing, rhythm reading, aural recognition and the dictation of rhythm, melody and harmony. This course covers diatonic music.

54 hours lab

Prereauisite: MUS 5B Coreauisite: MUS 3B

Sight singing and dictation of music with chromatic embellishments, secondary functions and modulations to closely-related

■ MUS 6B — Musicianship - Chromatic II

1 Unit Degree Applicable, CSU, UC

54 hours lab

Prereauisite: MUS 6A Coreauisite: MUS 3C

Sight singing and dictation of music with borrowed chords, linear chromaticism and modulation to foreign keys.

■ MUS 7 — Fundamentals of Music

3 Units

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

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 3 Units Degree Applicable, CSU, UC

54 hours lecture

Western music from the 15th through the 18th century, including examples of non-western cultures, for music majors. Lectures are augmented by sound recordings. Attending a live concert may be required.

■ MUS 11B — Music Literature Survey

ey 3 Units Degree Applicable, CSU, UC

54 hours lecture

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 and periods being studied. Attending at least one live concert is required.

■ MUS 12 — History of Jazz

Degree Applicable, CSU, UC

3 Units

(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 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

Western music from the Medieval period through the 21st century, including music from a variety of cultures. Lectures are augmented by recordings and other support media pertinent to the culture and 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

Western music from the Medieval period through the 21st century, including music from a variety of cultures. Lectures are augmented by recordings and other support media pertinent to the culture and period being studied. Attending at least one live concert is required.

■ MUS 14A — World Music

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, Europe, and Asia and compares these to Western popular music. Identifies vocal and instrumental genres within selected cultures and examines the harmonic, melodic, and rhythmic characteristics of each style. Lectures, films, recordings, and media presentations will assist the student in exploring the ways in which music is used around the world for aesthetic, social, and spiritual purposes.

■ MUS 14B — American Folk Music

3 Units

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, 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)

32 hours lab

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

54 hours lab

Reading and performance of piano literature with emphasis on scales, chord progressions, and sight reading. No prior musical experience is required.

■ MUS 17B — Intermediate Piano

1 Unit
Degree Applicable, CSU, UC

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

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. Recommended for music majors.

■ MUS 20A — Elementary Voice

1 Unit

Degree Applicable, CSU, UC

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.

■ MUS 20B — Intermediate Voice

1 Unit

Degree Applicable, CSU, UC

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.

■ MUS 21 — Advanced Voice

1 Unit
Degree Applicable, CSU, UC

Advisory: MUS 20B

54 hours lab

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.

■ 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

54 hours lab

Acoustic guitar playing, note reading, strumming, finger picking and improvisation. Students must furnish their own guitars.

■ MUS 23B — Intermediate Guitar

1 Unit

Degree Applicable, CSU, UC

54 hours lab

Advisory: MUS 23A

Techniques for reading and playing music arranged for the solo quitar. Students must furnish their own acoustic quitar.

■ MUS 24 — Advanced Guitar

1 Unit

Degree Applicable, CSU, UC

48 hours lab

Advisorv: 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 for option of letter grade or Pass/No Pass) 48 hours lab

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 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.

■ MUS 27 — Chamber Music

1.5 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

72 hours lab

Prerequisite: Admission by audition

Select ensemble of winds, strings, guitar, and percussion instrumentalists specializing in the performance of 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 during the first week of instruction. 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

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

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

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

Prerequisite: Admission by audition

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 and practice. Auditions held first week of the semester.

■ 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 offcampus locations. Students who repeat this course will improve skills through further instruction and practice.

■ MUS 36 — Wind Symphony

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

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

54 hours lab

A wind and percussion ensemble open to 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 may be 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 improvisation, jazz and pop music of all types. Open to all students with prior instrumental experience. Audition may be required. 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

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

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)
72 hours lab

Prerequisite: Admission by audition

The "Mt. SAC Singers" is a select choral ensemble, specializing in choreographed popular and musical theater literature. Includes a wide variety of music performed publicly several times every semester. Emphasizes advanced musical skills, vocal technique, choreography and showmanship skills. 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

(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 2 Units Degree Applicable, CSU

(May be taken four times for credit)

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

Prerequisite: Admission by audition

A premier vocal jazz choir. This choir will perform vocal jazz arrangements and students will study the historical, theoretical and technical aspects of both instrumental and vocal jazz. 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. 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. Off-campus performances are required.

■ MUS 99 — Special Projects in Music

1 to 2 Units

Degree Applicable, CSU

54 to 108 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. 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

Corequisite: NURS 2

Principles of nursing as related to culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process including wound care, legal/ethical aspects, comfort, fluid and electrolytes, spirituality, and nursing trends. The Betty Neuman Model serves as the conceptual framework.

■ NURS 2 — Pharmacology

2 Units

3.5 Units

Degree Applicable, CSU

36 hours lecture

Prerequisite: Admission to Nursing Program and eligibility for MATH 51

Corequisite: NURS 1A

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: Locomotion/Sensation/Integument /Oncology/Immunology

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 7 or NURS 70 (Advanced Placement) and PSYC 1A or PSYC 1AH

Concepts of nursing assessment and intervention with application to clients with psychiatric disorders in a mental health setting. The Betty Neuman Model serves as the conceptual framework.

■ NURS 6 — Pediatric Nursing

3 Units

Degree Applicable, CSU

27 hours lecture

81 hours lab

Prerequisite: NURS 5 or Advanced Placement and CHLD 10 or PSYC 14

Concepts of nursing assessment and intervention with application to pediatric clients. The Betty Neuman Model serves as the conceptual framework.

■ NURS 7 — Medical-Surgical Nursing: 7.5 Units Nutrition/Elimination/Surgical Assessis

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 4.5 Units Nursing: Integration/Regulation

Degree Applicable, CSU

45 hours lecture

108 hours lab

Prerequisite: NURS 8, and NURS 9 or Advanced Placement (NURS 70)

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)

108 hours lab

Prerequisite: NURS 10 or Advanced Placement

Students participate as a pre-licensed Registered Nurse 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 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, theory and clinical 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.

■ 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 and ANAT 36 or ANAT 10A and ANAT 10B, and MICR 22, or MICR 1, and ENGL 1A or ENGL 1AH, and PSYC 1A or PSYC 1AH, and CHLD 10 or CHLD10H or PSYC 14

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 and imbalance utilizing the Betty Neuman Model as the conceptual framework.

NUTRITION AND FOOD

■ NF 1 — Introduction to Nutrition as a Career 1.5 Units Degree Applicable, CSU

27 hours lecture

Prerequisite: NF 10, or NF 25, or NF 25H

Careers in dietetics, food science, and the food industry. Includes program requirements for nutrition and dietetics majors, career opportunities, professional organizations, ethics, and future directions. Students should be considering a major in nutrition, dietetics, nutrition science, or food science upon transfer. Field trips may be required.

■ NF 10 — Nutrition for Personal Health and Wellness 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Principles of nutrition and its 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 and current health issues with emphasis on individual needs. Topics include: functions and sources of nutrients; scientific principles to analyze and evaluate nutrition information; Dietary Guidelines and current nutrition recommendations; digestion, absorption, and metabolism; health, fitness, and disease; and nutrition in the life span. Students will record their diet, analyze its composition, and evaluate its nutrient content. Course is appropriate for health science majors.

■ 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 and current health issues with emphasis on individual needs. Topics include: functions and sources of nutrients; scientific principles to analyze and evaluate nutrition information; Dietary Guidelines and current nutrition recommendations; digestion, absorption, and metabolism; health, fitness, and disease; and nutrition in the life span. Students will record their diet, analyze its composition, and evaluate its nutrient content. Course is appropriate for health science majors. 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, and sanitation and safety practices.

■ NF 30 — Food Science Technologies

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for English 68 and Eligibility for Math 50
Food chemistry, food processing and technology and how these affect 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 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, energy, 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

20 hours lab

Prerequisite: HRM 52 or NF 20 or NF 10 or NF 25

Advisory: Basic food preparation knowledge, skills, and experience

Principles and techniques of healthful food preparation and investigation of chronic disease prevention through dietary means. Includes laboratory experience in preparation of healthful foods and meals. Basic food preparation knowledge, skills, and experience is advised. Off-campus meetings may be required.

■ NF 82 — Vegetarian Cuisine

1 Unit

Not Degree Applicable

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

12 hours lecture

20 hours lab

Prerequisite: HRM 52 or NF 10 or NF 20 or NF 25

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. Basic food preparation knowledge, skills, and experience advised. Off-campus meetings may be required.

OCEANOGRAPHY

■ OCEA 10 — Introduction to Oceanography 3 Units Degree Applicable, CSU, UC

54 hours lecture

Geological, chemical, physical, and biological aspects of the Earth's ocean. Plate tectonics, physiography of ocean basins and continental margins, ocean sediment, atmosphere and ocean circulation, waves and tides, coasts, and marine ecology. The companion Oceanography Lab (OCEA 10L) is recommended for students needing a lab to transfer to a four-year college/university. Field trips are required.

■ OCEA 10H — Introduction to Oceanography-Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

An honors course designed to provide an enriched experience. Introduces the geological, chemical, physical, and biological aspects of the Earth's ocean. 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 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

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

rs 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

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 is designed to provide an enriched experience. Students may not receive credit for both PHIL 3 and PHIL 3H.

■ PHIL 5 — Introduction to Philosophy

y 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Issues in ethics, social philosophy, metaphysics, epistemology, 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

Issues in ethics, social philosophy, metaphysics, epistemology, and contemporary philosophies of life. An honors course is 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 Analysis and Writing

Degree Applicable, CSU, UC

3 Units

ts 54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH

Function and use of formal and informal logic, argument, critical evaluation, and language in written composition.

■ PHIL 9H — Critical Analysis and Writing - Honors 3 Units Degree Applicable

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Function and use of formal and informal logic, argument, critical evaluation, and language in written composition. An honors course is designed to provide an enriched experience. Students may not receive credit for both PHIL 9 and PHIL 9H.

■ 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

Prerequisite: Eligibility for ENGL 68

History, doctrines, and practices 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, Judaism, Christianity, and Islam including those of East Asia, India, and the Middle East. Off-campus assignments are required.

■ PHIL 15H — Major World Religions - Honors

Degree Applicable, CSU, UC

3 Units

54 hours lecture

Prerequisite: Acceptance into the Honors Program

History, doctrines, and practices 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, Judaism, Christianity, Islam including those of East Asia, India, and the Middle East. Off-campus assignments are required. An honors course is 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 20B — History of Western Philosophy 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

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

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.

■ 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 — Intermediate Photography

4 Units

Degree Applicable

36 hours lecture 108 hours lab

Prerequisite: PHOT 10

Current professional techniques and studio lighting. 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

ves 3 Units Degree Applicable, CSU, UC

36 hours lecture 54 hours lab

Prerequisite: PHOT 10

Alternative photographic processes. Instant films: Lifts and transfers, specialized lighting, stain toning, emulsion coating, scanography and hand-made camera construction will be applied to produce images not considered common to making photographic prints.

■ PHOT 14 — Commercial Lighting

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prerequisite: 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

Professional illustrative, editorial and advertising fashion photography. Studio and location production in digital capture. Business aspects of operation and working with clients are presented. Off-campus assignments may be required.

■ PHOT 17 — Photocommunication

3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: PHOT 10

Affects that camera controls have on visual communication with photographs. Includes message enhancement using optical and digital controls, depth of field, lenses, lighting, composition, books, black and white vs. color images, and documentary and journalistic styles.

■ PHOT 18 — Portraiture and Wedding Photography 3 Units

Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: PHOT 10

Professional studio and field techniques and procedures for informal, formal, and environmental portraits with an emphasis on wedding photography. Includes lighting, color correction, digital techniques, photographic critique, and posing for individuals, couples, families, and groups in the studio and on location. Also includes business and legal issues for wedding and portrait photography businesses. Off-campus assignment required.

■ 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

nent 3 Units
Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: PHOT 10 and PHOT 11 and PHOT 20 and (PHOT 16 or PHOT 18)

Development of a photography portfolio and marketing materials for use in job application or gallery exhibition purposes. Field trips may be required.

■ PHOT 29 — Studio Business Practices for Commercial Artists

Degree Applicable

3 Units

54 hours lecture

Studio business practices for commercial artists. Small business operations, pricing services based on the licensing business model, copyright basics, project production, and estimating and invoicing. Field trips may be required.

■ PHOT 30 — Commercial and Illustrative Photography 3 Units Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: PHOT 11 AND PHOT 20

Advisory: PHOT 14

Overview of the commercial photographic industry. Exploration of the various commercial photography specialties including studio product and people photography, lifestyle, fashion and industrial/location photography with an emphasis on the development of a personal creative style. Field trips may be required.

■ PHOT 98 — Work Experience in Photography 1 to 3 Units

Degree Applicable

(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 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.

■ PHOT 99 — Special Projects in Photography

2 Units Degree Applicable

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.

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

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

ratory 1 Unit Degree Applicable, CSU, UC

54 hours lab

Corequisite: PHSC 7

Laboratory topics will parallel the course content of Physical Science lecture.

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 100

Discovery of concepts of physics by working through guided activities in a workshop style. Topics include light and geometrical optics, electricity and DC circuits, magnetism, 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

54 hours lab

Prerequisite: PHYS 2AG or equivalent

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)

Calculus-based course. Studies linear and rotational motion, forces, momentum, work, energy, oscillations, gravitation 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)

Calculus-based course covering heat, kinetic theory of gases, thermodynamics, electromagnetism (including DC and AC circuits,) and Maxwell's equations. Laboratory includes significant use of computers for data acquisition, analysis and simulation. Continuation of Physics 4A.

■ PHYS 4C — Engineering Physics

5 Units

Degree Applicable, CSU, UC

72 hours lecture

54 hours lab

Prerequisite: PHYS 4B

Calculus-based course covering fluids, sound, electromagnetic waves, relativity, and modern physics. Continuation of Physics 4A and 4B.

2 Units Degree Applicable, CSU

36 hours lecture

■ PHYS 99 — Special Projects in Physics

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. Field trips may be required as part of this course

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.

■ POLI 1H — Political Science - Honors

ors 3 Units
Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both POLI 1 and POLI 1 H.

■ POLI 2 — Comparative Politics

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A

Comparative analysis of different political systems, including political institutions, processes, policies, histories and the environments in which they occur.

■ 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

Ancient 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

Prereauisite: 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

Prerequisite: Eligibility for ENGL 68

Historical and political background of world politics and core international relations theories and concepts. Attention is given to the historical development of world politics, to fundamental theories and concepts in International Relations, and to an examination of international, national, sub-national, and transnational actors and their institutions, interactions, and processes.

■ 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 — Latino Politics in the United States 3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Latino (the group identified as Hispanic by the U.S. Census) political thought and action and how it is influenced and shaped by American institutions such as national, state, and local governments, federal and state constitutions, and United States Supreme Court decisions. Includes political theories and examines Latino's response to the actions of the dominant political institutions.

■ POLI 30 — California State and Local Government 3 Units Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68

Surveys the forces shaping California government and analyzes the operation of governmental institutions within California and the political and fiscal challenges facing California.

■ POLI 35 — African American Politics 3 Units Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Methods and strategies employed by African Americans in their quest to gain equal access and participation in American institutions.

PSYCHOLOGY

■ PSYC 1A — Introduction to Psychology 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Advisory: Eligibility for READ 100 or completion of AMLA 33R Psychological approaches to the study of behavior and mental processes. Topics include the history of psychology, psychological research methods, biological psychology, sensation and perception, consciousness, learning, memory, cognition, intelligence, and language, lifespan development, motivation and emotion, applied psychology (e.g., gender and sexuality and stress and health), social psychology, personality, psychological disorders, and psychological treatment.

■ PSYC 1AH — Introduction to Psychology - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Advisory: Eligibility for READ 100 or completion of AMLA 33R Psychological approaches to the study of behavior and mental processes. Topics include the history of psychology, psychological research methods, biological psychology, sensation and perception, consciousness, learning, memory, cognition, intelligence, and language, lifespan development, motivation and emotion, applied psychology (e.g., gender and sexuality and stress and health), social psychology, personality, psychological disorders, and psychological treatment. 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. Includes 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: Eliaibility 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 (taken prior or concurrently), and ENGL 1A (taken prior or concurrently)

A biopsychosocial analysis of the role of gender in the experience of women. Psychological, sociocultural and biological factors, and current scholarly research relating to women's gender identity, development, socialization, motivation, mental health, and relationships.

■ PSYC 26 — Psychology of Sexuality 3 Units

Degree 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 1 to 3 Units Degree Applicable, CSU

18 to 54 hours lecture

Prerequisite: PSYC 1A or PSYC 1AH and Eligibility for ENGL 1A or ENGL 1AH

Advisory: READ 100

Offers selected students recognition for their academic interest in psychology and the opportunity to explore the discipline of psychology in greater depth. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration.

RADIO - TELEVISION

■ R-TV 01 — Introduction to Electronic Media

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

History, structure, function, economics, content and evolution of radio, television, film, and the internet, including traditional and mature formats as well as emerging electronic media delivery systems. The social, political, regulatory, ethical and occupational impact of the electronic media will also be studied.

■ R-TV 02 — On-Air Personality Development

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. Developing content for on-air shows. Review the basics of the production studio and its components.

■ R-TV 03 — Sportscasting and Reporting

1.5 Units

3 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.

■ R-TV 04 — Broadcast News Field Reporting

3 Units

Degree Applicable

54 hours lecture

Corequisite: R-TV 01, R-TV 05, and R-TV 11A (May have been taken previously.)

Techniques used to research and cover a variety of news events including working with police and other emergency personnel, interviewing techniques and story developments. Emphasis will be placed on legal and ethical issues concerning news coverage.

■ R-TV 05 — Radio-TV Newswriting

3 Units

Degree Applicable

54 hours lecture

Corequisite: R-TV 01 (May have been taken previously)

Writing, editing and reporting radio and TV news, utilizing the Associated Press Wire Service. Rewriting 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 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

■ R-TV 07B — Advanced Commercial Voice-Overs 3 Units Degree Applicable

36 hours lecture

54 hours lab

contracts.

Prerequisite: 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

Degree Applicable, CSU

3 Units

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

Degree Applicable, CSU

3 Units

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 Law and Business Practices 3 Units Degree Applicable

54 hours lecture

Corequisite: R-TV 01 (May have been taken previously)

The broadcasting industry as a business. Legal and Federal Communications Commission (FCC) regulatory issues in broadcasting and developing media, as well as unions, contracts, negotiations, residuals, and mergers.

■ R-TV 17 — Internet Radio and Podcasting

3 Units Degree Applicable

54 hours lecture

Corequisite: R-TV 01 and R-TV 11A (May have been taken previ-

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 — Introduction to Screenwriting 3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 1A

Screenwriting for television and motion picture production. Includes characterization, visualization, structure and form.

■ R-TV 19A — Beginning Video Production

3 Units Degree Applicable, CSU

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

36 hours lecture

54 hours lab

Advisory: R-TV 14

Video production using studio, remote multicamera, and film-style techniques. Introduction to theory and practice in lighting, audio recording for video, basic directing and producing, editing software, and production of a short narrative-form video.

■ R-TV 19B — Advanced Video Production

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Prereauisite: 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

Prerequisite: 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 Multicamera Production

Degree Applicable

3 Units

3 Units

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

Degree Applicable

54 hours lecture

Aesthetics and use of editing software for film and television. Previous production experience recommended.

■ R-TV 23 — Reality Show Production

3 Units Degree Applicable

36 hours lecture 54 hours lab

Prereauisite: 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 24 — American Film History

3 Units

Degree Applicable

54 hours lecture

Prerequisite: Eligibility for ENG 1A

History of American film and filmmakers from 1895 to the present. Development and changes are examined in relation to historical, sociological, economic, political, cultural, artistic and technological contexts.

■ R-TV 25 — World Cinema

3 Units

Degree Applicable

54 hours lecture

Prerequisite: Eligibility for ENG 1A

Cinema history using a global perspective, following the growth of cinema in key countries from their beginnings until the present day. Both national and multinational co-productions are explored. Provides critical methodology and practical tools for examining and interpreting international film movements and genres.

■ R-TV 28 — Introduction to Writing for Electronic Media 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Conceptualize, structure and write dramatic and non-dramatic scripts for cinema, television and new media.

■ 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

3 Units

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

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 Advisory: R-TV 01

On-camera techniques used in news and sports anchoring and reporting including make-up, hair, wardrobe and overall presentation.

■ R-TV 35 — Pop Culture in the Media

3 Units

Degree Applicable

54 hours lecture

Examines American Pop Culture and its various forms as it applies to the 1920s through the 1990s through the major fads and follies of those decades as reflected in and influenced by radio, TV, film.

■ R-TV 95 — Campus Radio Station Operations 1.5 Units Degree Applicable

27 hours lecture

Corequisite: RTV 01 (May have been taken previously)

Prepares students for experience working on-the-air and behind-the-scenes at the campus terrestrial and Internet radio stations. Focuses on Federal Communication Commission (FCC) rules, regulations, documentation and licensing, SoundExchange rules regarding digital performances and the Digital Media Copyright Act and its impact on Internet streaming. Following successful completion of this course, students are eligible to work at the campus stations.

■ R-TV 96 — Campus Radio Station Lab

1 to 2 Units
Degree Applicable

54 to 108 hours lab

Prerequisite: R-TV 01 AND R-TV 02 AND R-TV 11A AND R-TV 95
Participation in the College radio stations. Activities include onair performance and behind-the-scenes roles.

■ R-TV 96A — Campus Radio Station Lab: Studio 1 to 2 Units Procedures and Equipment Operations

Degree Applicable

54 to 108 hours lab

Prerequisite: RTV 01 and RTV 02 and RTV 11A and RTV 95
Experience in the operation of the college radio stations. Activities focus on studio equipment operation, station procedures and on-air techniques.

■ R-TV 96B — Campus Radio Station Lab: Disc Jockey 1 to 2 Units and News Anchor/Reporter Skills

Degree Applicable

54 to 108 hours lab Prerequisite: RTV 96A

Participation in the college radio stations. Activities focus on developing Disc Jockey, News Anchor, and News Reporter skills.

■ R-TV 96C — Campus Radio Station Lab: Hosting 1 to 2 Units and Management Skills

Degree Applicable

54 to 108 hours lab Prerequisite: RTV 96B

Participation in the college radio stations including individual show creation and execution as well as management skills.

■ R-TV 97A — Radio/Entertainment Industry Seminar 1 Unit Degree Applicable

18 hours lecture

Prerequisite: Approval by Instructor

Coreauisite: R-TV 97B

Evaluating professionalism and problem-solving techniques related to their internship experiences.

■ R-TV 97B — Radio/Entertainment Industry Internship 1 Unit Degree Applicable

75 hours lab

Prerequisite: Approval by Instructor

Corequisite: R-TV 97A

On-the-job experience in the radio or entertainment industry in order to strengthen and broaden 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.

■ R-TV 99 — Radio/TV Special Projects

2 Units Degree Applicable

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 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.

■ R-TV 101 — Work Experience in Broadcast Entertainment

1 to 2 Units

Degree Applicable

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.

RADIOLOGIC TECHNOLOGY

■ RAD 1 — Clinical Experience I

7.5 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

405 hours lab

Prerequisite: ANAT10A and ANAT10B and RAD50 and RAD91

Corequisite: RAD61A and RAD61B and RAD61C

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on upper and lower limbs, shoulder girdle, pelvis, chest, and abdomen. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program.

■ RAD 1A — Clinical Experience 1A

5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

256 hours lab

Prerequisite: ANAT10A and ANAT10B and RAD 50 and RAD 91

Corequisite: RAD 61A and RAD 61B and RAD 61C

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on upper and lower limbs, shoulder girdle, pelvis, chest, and abdomen. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

■ RAD 1B — Clinical Experience 1B

3 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

150 hours lab

Prerequisite: RAD 1A

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on upper and lower limbs, shoulder girdle, pelvis, chest, and abdomen. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

■ RAD 2 — Clinical Experience II

7.5 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

405 hours lab
Prerequisite: RAD1

Corequisite: RAD 62B and RAD 62C and RAD 62A

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on cervical spine, cross-table trauma cervical spine, thoracic spine, lumbar spine, ribs, paranasal sinuses, esophagus, upper gastrointestinal, small bowel and barium enema. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program.

■ RAD 2A — Clinical Experience 2A

5 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

256 hours lab
Prerequisite: RAD 1B

Corequisite: RAD 62A, RAD 62B, and RAD 62C

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on cervical spine, cross-table trauma cervical spine, thoracic spine, lumbar spine, ribs, paranasal sinuses, esophagus, upper gastrointestinal, small bowel and barium enema. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

■ RAD 2B — Clinical Experience 2B

3 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

144 hours lab

Prerequisite: RAD 2A

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on cervical spine, cross-table trauma cervical spine, thoracic spine, lumbar spine, ribs, paranasal sinuses, esophagus, upper gastrointestinal, small bowel and barium enema. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

■ RAD 3 — Clinical Experience III

17 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

918 hours lab Prerequisite: RAD2 Coreauisite: RAD63

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on special and elective procedures. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program.

■ RAD 3A — Clinical Experience 3A

7.5 Units
Degree Applicable, CSU

(May be taken for Pass/No Pass only)

384 hours lab

Prerequisite: RAD 2B Corequisite: RAD 63

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on special and elective procedures. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

■ RAD 3B — Clinical Experience 3B

3 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

150 hours lab

Prereauisite: RAD 3A

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on special and elective procedures. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

■ RAD 3C — Clinical Experience 3C

7.5 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

384 hours lab

Prereauisite: RAD 3B

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on special and elective procedures. Health physical. background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

■ RAD 4 — Clinical Experience IV

4.5 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

243 hours lab Prereauisite: RAD 3C

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on developing imaging and/or therapeutic technologies. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program.

■ RAD 30 — Radiographic Pathology

1.5 Units

Degree Applicable, CSU

24 hours lecture Coreauisite: RAD 3A

Concepts related to disease and etiological considerations. Emphasis on radiographic appearance of disease and impact on exposure factor selection.

■ RAD 31 — Fluoroscopy and Radiobiology

5.5 Units

Degree Applicable

90 hours lecture 15 hours lab

Prerequisite: RAD 62A Corequisite: RAD 3C

Areas of radiobiology, radiation physics, exposure reduction, fluoroscopy equipment and operation, image evaluation, quality control and patient considerations. Intended for students enrolled in Radiologic Technology Program.

■ RAD 32 — Digital Imaging in Radiology

2 Units

3 Units

Degree Applicable, CSU

36 hours lecture Prerequisite: RAD 61A

Radiographic digital imaging system components, principles. operation, quality assurance, and maintenance. Factors impacting image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between filmbased and digital imaging systems. Intended for students enrolled in Radiologic Technology program.

■ RAD 50 — Introduction to Radiologic Science and Health Care

Degree Applicable, CSU

54 hours lecture

Foundations of radiography and the practitioner's role in the healthcare delivery system. Principles, practices and policies of healthcare organizations are examined and discussed in addition to the professional responsibilities of the radiographer. Includes radiation safety and a foundation in ethics and law related to the practice of medical imaging. Intended for students enrolled in Radiologic Technology Program.

■ 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 Corequisite: RAD 61A

Practical application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructors. Emphasis on chest, upper and lower limbs. from digits to shoulder, from toes to knee, abdomen, and kidney, ureters, and bladder (KUB).

■ RAD 52B — Techniques of Radiologic Technology 2.5 Units 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

Prereauisite: 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

Corequisite: RAD 63

Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on cystograms, urethrograms, foreign body localization, tomography, and venography.

■ RAD 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

Corequisite: 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

Corequisite: RAD 1A and RAD 61B and RAD 61C

Structure of the atom, radiation, radiographic equipment, exposure factor formulation, technique charts, and radiation protection. Intended for students enrolled in Radiologic Technology Program.

■ RAD 61B — Radiographic Procedures I 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: RAD 50, RAD 91, ANAT 10A, ANAT 10B and MEDI 90 Corequisite: RAD 61A. RAD 61C. and RAD 1A

Knowledge base necessary to perform standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the upper and lower limbs, chest and abdomen. Intended for students enrolled in Radiologic Technology Program.

■ RAD 61C — Radiographic Procedures I Laboratory 1.5 Units Degree Applicable, CSU

18 hours lecture

18 hours lab

Prerequisite: RAD50, RAD 91, ANAT 10A, ANAT 10B, and MEDI 90 Corequisite: RAD 61A, RAD 61B and RAD 1A

Practical application of standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the upper and lower limbs, chest and abdomen. Intended for students enrolled in Radiologic Technology Program.

■ RAD 62A — Theory of Radiologic Technology 4 Units Degree Applicable, CSU

72 hours lecture

Prerequisite: RAD 61A and RAD 1B

Corequisite: RAD 2A, RAD 62B, and RAD 62C

Areas of X-ray production and interaction with matter, principles of imaging, film screen processing, imaging equipment, and radiation protection. Intended for students enrolled in Radiologic Technology Program.

■ RAD 62B — Radiographic Procedures II 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: RAD 61A, RAD 61B, RAD 61C

Corequisite: RAD 62A, RAD 62C and RAD 2A

Knowledge base necessary to perform standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the vertebral column, bony thorax, cranium, gastrointestinal (GI) system and genitourinary (GU) system. Intended for students enrolled in Radiologic Technology Program.

■ RAD 62C — Radiographic Procedures II Laboratory 1.5 Units Degree Applicable, CSU

18 hours lecture

18 hours lab

Prerequisite: RAD 61A, RAD 61B and RAD 61C

Corequisite: RAD 62A, RAD 62B, RAD 2A

Practical application of standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the vertebral column, bony thorax, cranium, gastrointestinal (GI) system and genitourinary (GU) system. Intended for students enrolled in Radiologic Technology Program.

■ RAD 63 — Theory of Radiologic Technology 4 Units Degree Applicable, CSU

72 hours lecture

Corequisite: RAD 3A

Special radiographic studies, advanced modalities, radiation protection, contrast media use and quality assurance processes relative to film-based radiology.Intended for students enrolled in Radiologic Technology Program.

■ RAD 64 — Theory of Radiologic Technology 4 Units

Degree Applicable, CSU

72 hours lecture

Corequisite: RAD 3C

Analytical review of the radiologic technology core curriculum. Serves as preparation for state certification and national registry exams. Intended for students enrolled in Radiologic Technology Program.

■ RAD 91 — Patient Care in Radiologic Sciences 3 Units Degree Applicable, CSU

45 hours lecture

15 hours lab

Concepts of optimal patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, pharmacology, as well as infection control procedures using standard precautions. The role of the radiographer in patient education is identified. Intended for students enrolled in Radiologic Technology Program.

READING

■ READ 70 — Approaches to Reading

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Introduction to comprehension and vocabulary strategies, and self-reflection on reading.

3 Units ■ READ 80 — Developing Reading Comprehension 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

Degree Applicable

3 Units

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

Prerequisite: READ 80 or satisfactory score on reading placement

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 Therapy

Degree Applicable, CSU

2 Units

36 hours lecture

Prerequisite: ANAT 10A, ANAT 10B, CHEM 10, MATH 51, MEDI 90 Corequisite: RESD 51A, RESD 52

History of respiratory care, patient confidentiality, patient safety, principles of infection control, bloodborne and airborne pathogens, ethical and legal implications of practice, professionalism, physical principles of respiratory care, and computer applications in respiratory care.

■ 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

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 Corequisite: RESD 51B

Anatomic alterations of the lungs, etiology, overview of the cardiopulmonary clinical manifestations, and general management of commonly encountered cardiopulmonary diseases.

■ RESD 55 — Adult Respiratory Intensive Care 3 Units Degree Applicable, CSU

54 hours lecture

Coreauisite: RESD 56B

Provides an in-depth approach to the current modalities and monitoring tools of respiratory care. Emphasis is on the adult patient who is critically ill with primary and/or secondary cardiopulmonary failure.

■ RESD 56A — Techniques of Respiratory Therapy 2.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

143 hours lab

Prereauisite: RESD 51B Coreauisite: RESD 57B

Clinical practice in intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients in a hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first academic sessions of the Respiratory Therapy Program. Instruction in the application of 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

Coreauisite: 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.

2.5 Units ■ RESD 56C — Techniques of Respiratory Therapy Degree Applicable, CSU

(May be taken for Pass/No Pass only)

143 hours lab

Prereauisite: 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

Prerequisite: RESD 55

Corequisite: RESD 56D and RESD 61

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, physical exam findings, arterial blood gas data, hemodynamic monitoring data, exhaled gas monitoring data, nutrition, and synopsis of findings; extensive practice in interpreting this data.

■ RESD 61 — Current Issues in Respiratory Care 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: RESD 56C

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.

■ RESD 62 — Pharmacology for Respiratory Care 1.5 Units Degree Applicable, CSU

27 hours lecture

Prerequisite: RESD 50 and RESD 51A and RESD 52

Commonly used respiratory care drugs with emphasis on dosage, indications, contraindications, adverse reactions, and expected outcomes.

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

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: SIGN 80 or SIGN 101 or equivalent fluency

Further study of fundamentals of American Sign Language focusing on comprehension skills, grammatical structures and practice in the expressive aspects of the language, as well as exposure to Deaf culture.

■ SIGN 103 — American Sign Language 3 4 Units

Degree Applicable, CSU, UC

72 hours lecture

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 103

Expressive and conversational skills in American Sign Language (ASL)along with continued focus on grammatical and cultural features.

■ SIGN 105 — American Sign Language 5 4 Units Degree Applicable, CSU

72 hours lecture
Prerequisite: SIGN 104

Advanced American Sign Language (ASL) communication skills with emphasis on signing descriptive narratives and strengthening conversational skills. Target language practice includes holding discussions and making decisions. Further exposure to Deaf cultural components.

■ SIGN 108 — Fingerspelling

2 Units Degree Applicable

(May be taken for Pass/No Pass only)

36 hours lecture

Prerequisite: SIGN 81 or SIGN 102

Skill development in receptive and expressive fingerspelling.

■ SIGN 201 — Introduction to Deaf Studies 3 Units Degree Applicable, CSU

54 hours lecture

Topics central to the Deaf community including deaf education, Deaf/hearing relationships, and Deaf history. Topics include early intervention and education of deaf children, communication strategies and their effectiveness, anatomy and causes of deafness, and Deaf people as a cultural group. Gives a holistic perspective of Deaf people applicable to further studies in Deaf culture and community.

■ SIGN 202 — American Deaf Culture 3 Units

Degree Applicable, CSU, UC

54 hours lecture

American Deaf cultural norms, values, mores and institutions.

■ SIGN 210 — American Sign Language Structure 3 Units Degree Applicable, CSU, UC

54 hours lecture

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 option of letter grade or Pass/No Pass)

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 — Applied Interpreting

2 Units

Degree Applicable

(May be taken for Pass/No Pass only)

36 hours lecture

Prerequisite: SIGN 232

Capstone class to the interpreter training program. Course emphasizes application of knowledge and skills developed. Students will develop a direct connection to the field of interpreting and explore continuing education opportunities. Students are required to complete 40 hours of out-of-class interpreting and participation in out-of-class interpreting continuing education.

■ 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.

■ SIGN 299 — Special Projects in Sign Language/Interpreting

2 Units

Degree Applicable

(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 class.

SOCIOLOGY

■ SOC 1 — Sociology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Systematic study of human relations and social structures emphasizing 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

Systematic study of human relations and social structures emphasizing 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 — Contemporary Social Problems

3 Units P

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Sociological principles and concepts as applied in the 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.

■ SOC 2H — Contemporary Social Problems - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Sociological principles and concepts as applied in the 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. 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 delinquency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 5 and SOC 5H.

■ SOC 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

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eliqibility for ENGL 68

Theoretical aspects of physical, social, emotional and cognitive development from conception through adolescence. Requires observation of children.

■ SOC 20 — Sociology of Ethnic Relations

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Ethnic and racial groups in the U.S. and social factors leading to prejudice, discrimination, and stereotypes. Four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) examined with emphasis placed on historical experiences, contemporary circumstances and future trends.

■ SOC 20H — Sociology of Ethnic Relations - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Ethnic and racial groups in the U.S. and social factors leading to prejudice, discrimination, and stereotypes. Four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) examined with emphasis placed on historical experiences, contemporary circumstances and future trends. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 20 and SOC 20H.

■ SOC 36 — Asian American Communities 3 Units

Degree Applicable, CSU, UC

54 hours lecture

A socio-cultural study of Asian Americans that includes race, class and gender. Explores the contemporary experiences of peoples originating in the Pacific Islands, Southeast Asia, South Asia, and East Asia; emphasizes social structure, social change, and offers a theoretical framework for analysis.

■ SOC 91 — Service Learning for Sociology 1 Unit

Degree Applicable, CSU

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

Prerequisite: Eligibility for ENGL 68

Increases awareness and appreciation for civic responsibility through service learning. Students will examine the sociological dynamics of community service and assess specific needs for community service and fundraising. Field trips required.

■ SOC 91L — Service Learning for Sociology Lab .5 to 2 Units Degree Applicable, CSU

(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 Not Degree Applicable, CSU

36 hours lecture

Offers students recognition for their academic interests in sociology and the opportunity to explore the discipline of sociology to greater depth. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration.

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

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

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 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 53 — Conversational Spanish

h 3 Units Degree Applicable, CSU, UC

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

54 hours lecture

Prerequisite: SPAN 2

Development of intermediate Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context.

■ SPAN 54 — Continuing Conversational Spanish 3 Units Degree Applicable, CSU, UC

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

54 hours lecture Prerequisite: SPAN 53

Development of advanced Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context.

SPEECH

■ SPCH 1A — Public Speaking

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

Degree Applicable, CSU, UC

4 Units

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 3 Units 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 (can be 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

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.

\blacksquare 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

Coreguisite: ENGL 1A or ENGL 1AH (may have been taken previ-

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 Corequisite: SPCH 1A

Provides hands-on research, outlining, and anxiety reduction activities designed to enhance student success as a linked course with the basic public speaking course.

■ SPCH 15 — Forensics: 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 one or more intercollegiate competitions as part of the Mt. SAC Forensics Team. Instructions in preparatory proce dures for these tournaments, including techniques in persuasive oratory, interpretation, expository, impromptu, speech analysis, and debate. Student has option to choose area of interest and also an opportunity to participate in public community programs. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences.

■ SPCH 16 — Forensics: Individual Event Team 3 Units

Degree Applicable, CSU

(May be taken four times for credit)

167 hours activity

Prerequisite: Admission by audition

Speech performance skills and participation in multiple intercollegiate speaking competitions as members of the Mt. SAC Forensics Team. Auditions are held prior to the first week of class and are scheduled through the coaching staff. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences.

■ SPCH 17 — Forensics: Debate Team

3 Units

Degree Applicable, CSU

(May be taken four times for credit)

167 hours activity

Prerequisite: SPCH 15 or SPCH 20

Speaking and argumentation skills and participation in multiple in ter-collegiate speaking competitions as members of the Mt. SAC Forensics Team. Emphasis is on parliamentary debate and limited preparation speaking. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences.

■ SPCH 18 — Forensics: Reader's Theater Team 3 Units

Degree Applicable, CSU

(May be taken four times for credit)

167 hours activity

Prerequisite: SPCH 15

Speech performance skills and participation in multiple public performances, including a regional, state or national-level forensics competition, as members of the Mt. SAC Forensics Team. Students will perform in one or more reader's theater pieces. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences.

■ 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

Rhetorical principles of argumentation in both theory and practice. Emphasis is given to rational discussion and reasoned advocacy. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 20 and SPCH 20H. Off-campus tournaments may be required.

■ SPCH 26 — Interpersonal Communication 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Dynamics of everyday one-to-one communication focusing on the role behavior, psychology, and environment play in friendship, family, intimate, and workplace relationships. Factors that influence communication such as non-verbal cues, language, perception, culture, power dynamics, listening, self-concept, and health and personal well-being. Problems in relational communication and conflict management as well as adaption and success in interpersonal effectiveness.

■ 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 previously)

Advisory: READ 100

Survey of prominent issues in communication theory, introduction to the professional field of communication, and practice of multiple research methods. Particularly useful for students preparing for upper division study in communication or related disciplines.

■ SPCH 99 — Special Projects in Speech 2 Units Degree Applicable, CSU

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.

STUDY TECHNIQUES

■ STDY 80 — Foundations for Academic Success 3 Units Not Degree Applicable

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

Advisory: Eligibility for ENGL 67 and READ 80

College success course emphasizing academic achievement that promotes learning through self-awareness, time-management, listening, note-taking, oral and written communication, testtaking, memorization, and the use of campus resources using a brain-based perspective.

■ STDY 85A — Basic Overview of Strategies for 1 Unit Academic Success

Not Degree Applicable

18 hours lecture

Advisory: Eligibility for ENG 67 and Eligibility for READ 80 Brain-based perspective emphasizing study techniques that include self-awareness, self-motivation, note-taking, test-taking, studying and learning strategies and learning preferences.

■ STDY 85C — Online Learning Success Skills 1 Unit Not Degree Applicable

18 hours lecture

Advisory: Eligibility for ENG 67 and Eligibility for READ 90 Introductory college success course overview for online learning using a brain-based perspective emphasizing success strategies designed to prepare students to take online classes and to introduce students to strategies for online learning.

■ STDY 100 — University-level Academic **Success Strategies**

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68 and eligibility for READ 100 Advanced transfer-level college success course emphasizing study strategies that include Triune Brain Theory, Emotional Intelligence, learning theories, preparation for transfer, self-management, and critical thinking using a brain-based perspective.

SURVEYING

■ SURV 1A — Surveying

3 Units Degree Applicable, CSU, UC

36 hours lecture 54 hours lab

Prerequisite: MATH 150

Surveying and use and care of surveying instruments such as steel tape, engineer's level, theodolite, and total station, Includes horizontal and vertical measurements, layout, traverse, area computations, analysis and adjustments of systematic and random errors, stadia surveying, and mapping.

■ SURV 1B — Surveying

3 Units Degree Applicable, CSU, UC

36 hours lecture 54 hours lab

Prereauisite: 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 2 Units Degree Applicable

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

■ TECH 89 — Preparation for Work Experience 1 Unit Not Degree Applicable

18 hours lecture

Preparation for Work Experience in Engineering and Industrial Technology related occupations including opportunities for assessment of personal performance, improving technical knowledge, professionalism, the culture of work, developing an internship into employment, avoiding injury, and workers' compensation.Instructor authorization is required prior to enrollment.

THEATER ARTS

■ THTR 9 — Introduction to Theatre Arts

Degree Applicable, CSU, UC

3 Units

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

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 scenery construction and stage 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.

■ THTR 15 — Play Rehearsal and Performance 1 to 3 Units Degree Applicable, CSU, UC

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

54 to 162 hours lab

Prerequisite: Admission by audition

Planning, preparation, and presentation of college-sponsored dramatic presentations. Emphasis on acting with some technical theater assignments. 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

Prerequisite: THTR 11

Study in performance for TV and films. Background, methodology and techniques of acting for the camera. Includes TV equipment and how to make it work for the TV actor; study of image, type, and character, evaluation and use of scripts and monologues with practical exercises and on-camera scenes in various styles such as TV drama, sit-coms, commercials. Assists students prepare for an occupation in the performing areas of television and film.

■ THTR 18 — Technical Theater Practicum

ticum 1 Unit Degree Applicable, CSU, UC

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

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.

■ 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 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. Field trips are required.

■ THTR 99 — Special Projects in Theater

1 to 2 Units

Degree Applicable, CSU

54 to 108 hours lab

In order to offer 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 must have instructor's authorization before enrolling in this class.

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 Unit

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

1 Unit 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.

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 Advisorv: WELD 50

Electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (AWS) 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 alloving, 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 Shielded Metal Arc (SMAW) and 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

Welding high alloy steel with both Shielded Metal Arc (SMAW) and Flux Core Arc (FCAW) welding processes in the vertical and overhead positions with an introduction to Gas Metal Arc (GMAW) and Gas Tungsten (GTAW) welding.

■ WELD 70C — Certification for Welders

3 Units Degree Applicable

18 hours lecture

108 hours lab

Advisory: WELD 70A taken prior

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 Gas Tungsten Arc Welding (GTAW) or or tungsten inert gas (TIG) of steel, aluminum, corrosion resisting steel(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

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 he 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 Modification Lab

2 Units

Degree Applicable

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

108 hours lab

Corequisite:WELD 91 (may have been taken previously)

Advisory: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 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.

SECTION ELEVEN



Continuing Education

Committed to Student Success

CONTINUING EDUCATION (ADULT EDUCATION) COURSES

Noncredit courses are designed to meet the 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 defined categorically under the California Education Code, Section 84711, whereby state funding is authorized for specific categories. Categories currently provided by Mt. SAC noncredit include: Basic Skills (including tutoring), English as a Second Language, Citizenship, Programs for the Handicapped, Vocational Courses, Programs for the Older Adult, 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 and Health Career 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.

Assessment

Adult Basic Education students are assessed prior to enrolling in courses. Additional assessments are available for specific needs. Basic skills assessment services include testing for academic skill levels, learning strengths, career goals. 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.

Health careers students enrolling in nursing assistant, home support, or phlebotomy programs must meet specific state requirements related to security and physical health. This information on requirements is provided at mandatory orientation meetings. For more information, please call (909) 274-4788.

Orientation

Adult Basic Education and ESL students must attend an orientation session prior to registration. Orientation sessions are generally offered immediately after assessment. Health career orientations are scheduled prior to the start of each cohort.

Counseling and Advisement

Educational advisement services are available throughout the semester through the Adult Basic Education Center. To schedule an individual appointment, students should call the Adult Basic Education Center, **(909) 274-4845**.

The Adult Basic Education and ESL departments provide counselors and educational advisors to serve their students. Assistance to all non-credit 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. Prices for fee-based community courses vary. In addition, all students who park on the Mt. San Antonio College campus must have a valid, current parking permit. Student parking permits may be purchased at the Bursar's Office. One-day parking permits may be purchased at various parking lots on campus. See campus map for details. Books and supplies needed for a class are the responsibility of the student unless specifically noted as provided by a material fee.

Vocational Programs

The Division offers courses and certificates in vocational and heath career areas. Additionally, many credit vocational classes offer a minimum number of seats available 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 219 of this catalog.)

Students wishing to complete a noncredit certificate program in one of the vocational areas of study must apply to the Continuing Education Division office, Building 40, room 104. For further information, please call (909) 274-4220.

Adult Basic Education

The Adult Basic Education 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
- 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)
- Armed Services Vocational Aptitude Battery (ASVAB) Preparation
- Support Services to EDD and WIA students
- High School and Career Counseling; Educational Advising
- Computer Literacy and Keyboarding Classes
- In-Home Support Services Training

For more information on Adult Basic Education 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)
- Academic and/or vocational transition program (VESL 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 serves both credit and noncredit students. 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.

Continuing Education

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.

The Center is open to current Mt. SAC credit and noncredit health career students only.

Some of the campus programs/departments actively utilizing the center include:

Technology and Health Division

- Medical Services EMT, Paramedic
- Mental Health Technology
- Associate Degree Nursing
- Radiologic Technology
- Respiratory Therapy

Continuing Education Division

- Long-Term Certified Nursing Assistant (C.N. A.)
- IV Therapy
- Home Health Aide
- In-Home Support Services
- Phlebotomy Technician

Education for Older Adults

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 health, and vocational areas, and are conducted at various senior and community centers and residential facilities throughout the Mt. San Antonio College District.

Mountie Volunteer Program (MVP)

Partnering with the Retired Senior Volunteer Program (RSVP), the MVP Program coordinates and provides volunteer opportunities for participants, and 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 Education for Older Adults program.

For more information on Education for Older Adults, please call (909) 274-4192.

Other Community Education Services and Programs

- Fee-based programs related to career development and personal enrichment for community members
- College 4 Kids and Youth Programs
- CPR and First Aid
- Vehicle Safety Programs (Motorcycle Safety and Traffic School)
- Farm Tours
- Wildlife Sanctuary Tours
- Study Skills Laboratory for Disabled Students Programs and Services
 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......221 **Certificates in Occupational Training** Payroll 222

Landscape Irrigation	
Livestock Management	
Nursery Management	
Park Management 224	
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	
,	

NONCREDIT LIST OF CERTIFICATES

Electronic Systems Technology — Level 1	22
Electronic Systems Technology — Level 2	220
Electronic Technology	22
Electronics and Computer-Engineering Technology	22
Electronics Communications	22
Electronics: Industrial Systems	22
Health Careers	22
Certified Nursing Assistant	22
Interior Design	
Interior Design — Level 1	22
Manufacturing Technology	22
MasterCAM	22
Office Technology	22
Administrative Assistant – Level 1	22
Administrative Assistant — Level 2	22
Office Computer Applications	22
Photographics	22
Photography - Level I	22
Welding Technologies	22
Welding	22
Licensed Welder	22
Welding: Automotive Welding, Cutting and Modification	22
Welding: Gas Tungsten Arc Welding	22
Welding: Semiautomatic Arc Welding	22

NONCREDIT 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

Adult High School Diploma
Basic Career Readiness
Basic Skills
Career Development
English as a Second Language
ESL — Beginning Level
ESL — Intermediate Level
ESL — Advanced Level

GED Preparation

Adult High School Diploma #31598

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.

Course ID Course Title

Course in	Course ritte
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

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.

Certificate Requirements:

Required Courses:

Course ID	Course Title		
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		
RS ARFOS	Career Develonment		

Basic Skills #24058

The Basic Skills Certificate of Competency provides courses and training in skills that will improve opportunities for students to obtain employment, advance in their careers or prepare for future advanced academic studies. Students will increase basic skills, i.e., reading, writing, math and computer skills, and progress in this sequence based on individual needs. Courses are offered days and evenings to accommodate work and personal schedules. For more information, please call (909) 274-4845.

Certificate Requirements: Course ID Course Title

404.56.5	204152 11112
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: Course ID Course Title

Course is	course ritie
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
ESL PLVL1	ESL – Pre-Level 1
ESL LVL1	ESL – Level 1

ESL LVL3	ESL – Level 3
ESL LVL4	ESL – Level 4
ESL LVL5	ESL – Level 5
ESL LVL6	ESL – Level 6
Certificate E	lectives:
ESL SPKA	ESL — Speaking A
ESL SPKB	ESL — Speaking B
ESL SPKC	ESL — Speaking C
ESL TOEFL	TOEFL Preparation
ESL WRTA	ESL Writing A
ESL WRTB	ESL Writing B
ESL WRTC	ESL Writing C
ESL LANG3	English for Special Uses
BS LANG1	Language Skills Laboratory
ESL VHLTH	English as a Second Language
	for Health Professionals

ESL – Level 2

ESL LVL2

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.

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:

Required Courses:

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

ESL SPKA ESL — Speaking A ESL WRTA ESL Writing A

ESL LANG2 English for Special Uses

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:

Required Courses:

Course ID	Course Title	
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:

Required Courses:

Course ID	Course Title
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.

Certificate Requirements:

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

NONCREDIT VOCATIONAL 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 manner, the course may be taken for credit and applied to the noncredit certificate.

What Are Vocational 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

Continuing Education

appointment during the semester. Please call (909) 274-4845 to schedule an appointment.

Noncredit Vocational Training Certificates of Completion are available in the following programs:

Accounting:

Bookkeeping

Computerized

Pavroll

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

Electronics Communications

Electronics: Industrial Systems

Health Careers:

Certified Nursing Assistant Preparation

Interior Design:

Interior Design – Level 1

Manufacturing Technology:

MasterCAM

Office Technology:

Administrative Assistant - Level 1 Administrative Assistant — Level 2

Office Computer Applications

Photographics:

Photography - Level I

Welding Technology:

Welding

Licensed Welder

Welding: Automotive Welding, Cutting

and Modification

Welding: Gas Tungsten Arc Welding

Welding: Semiautomatic Arc Welding

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

Bookkeeping – Accounting VOC BA72

Using Microcomputers in Managerial VOC BA76

Accounting

VOC B005 **Business English**

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:

Course ID Course Title VOC BA75 Using Microcomputers in Financial

Accounting

VOC BA76 Using Microcomputers in Managerial

Accounting

VOC CSB15 Microcomputer Applications

VOC CSB31 Microsoft Word

Accounting – Payroll #24074

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

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.

Certificate Requirements:

Course ID Course Title

VOC AGR25 Floral Design – 1 VOC AGR26 Floral Design – 2

VOC AGR27 Floral Design – 3

Horse Ranch Management

#24340

This sequence of courses is designed to enable students to prepare for a career in horse ranch management. Courses provide students hands-on experience designed to give them a combination of practical skills and technical knowledge.

Certificate Requirements:

Course ID Course Title VOC AGN02 Animal Nutrition VOC AGN94 Animal Breeding VOC AGL16 Horse Production or VOC AGL18 Horse Ranch Management VOC AGL19 Horse Hoof Care

VOC AGL96 Animal Sanitation and Disease Control Artificial Insemination of Livestock VOC AGL97

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 Title
Horticultural Science
Landscape Design
Interior Landscaping
Integrated Pest Management
Ornamental Plants — Herbaceous
Landscaping and Nursery Management
Landscape Irrigation
 Design and Installation
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 #24111

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

Certificate Requirements:		
Course ID	Course Title	
VOC AGR01	Horticultural Science	
VOC AGR51	Tractor and Landscape Equipment	
	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.

Cartificata Doquiromante

Certificate Requirements:		
Course ID	Course Title	
VOC AGR01	Horticultural Science	
VOC AGR13	Landscape Design	
VOC AGR39	Turf Grass Production	
	and Management	
VOC AGR50	Soil Science and Management	
VOC AGR51	Tractor and Landscape Equipment	
	Operations	
VOC AGR62	Landscape Irrigation — Design and	
	Installation	
VOC AGR63	Landscape Irrigation System	
	Management	
VOC AGR64	Landscape Irrigation	
	 Drip and Low Volume 	
VOC AGR71	Landscape Construction	
	Fundamentals	

Livestock Management #24057

This certificate is designed to give students basic skills in livestock management for employment opportunities on farms, ranches and agriculture sales and services. This sequence is offered on an annual basis.

Certificate Requirements:

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

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
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

This certificate is designed to enable students to enter the retail or wholesale pet industry. Most of the courses in this certificate are offered every Fall and Spring semester. Five of the courses are offered in the evening only and are rotated over four semesters.

Certificate Requirements:

Course Title
Animal Science
Animal Nutrition
Animal Handling and Restraint
Animal Breeding
Animal Sanitation
and Disease Control
Pet Shop Management
Canine Management
Feline Management
Tropical and Coldwater
Fish Management
Reptile Management
Aviculture — Cage and Aviary Birds
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 Title		
Horticultural Science		
Integrated Pest Management		
Ornamental Plants		
 Trees and Woody Shrubs 		
Landscape and Nursery		
Management		
Soil Science and Management		
Tractor and Landscape		
Equipment Operations		
Small Engine Repair 1		
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
VOC BM20	Principles of Business
VOC BM61	Business Organization
	and Management
VOC BS36	Principles of Marketing

Business Management – Level 2 #24110

The Business Management — Level 2 Certificate builds upon the Level 1 certificate to provide students with proven business tools that will enhance their management careers. Students will be exposed to projects and business simulations that will lead to measurable success. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

Completion of Business Management – Level I PLUS

Course ID	Course Title
VOC BM60	Human Relations in Business
VOC BM62	Human Resource Management
VOC CSB15	Microcomputer Applications

Business Management – Level 3 #24249

Upon completion of the Business Management

— Level 3 Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

Completion of Business Management – 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 Rusiness

Human Resource Management #24320

This introductory certificate exposes students to the business world and the role of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resources. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

Course ID	Course Title
VOC BM20	Principles of Busines

SS **Business Organization** VOC BM61

and Management

VOC BM62 Human Resource Management

International Business - Level 1 #24107

This specialized business certificate is intended to prepare the student to work in the unique and dynamic environment of international business. The program also prepares the student as a business management generalist for companies conducting international trade. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

Course ID **Course Title** VOC BM20 Principles of Business VOC BM51

Principles of International Business

VOC BS36 Principles of Marketing

International Business - Level 2 #24431

In the International Business – Level 2 Certificate. the student will learn methods and approaches to managing the complexities of doing business in an international environment. Students acquire both theoretical knowledge and practical skills related to managing and marketing within the global arena. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

Completion of International Business Level 1

PLUS the following courses:

Course ID **Course Title**

Business Organization VOC BM61

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

Retail Store Management VOC BS50

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 Certifi-

PLUS the following courses:

AOC RA L L	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

Course in	Course ritie
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 Title Course ID

VOC BA07 Principles of Accounting — Financial **Principles of Continuous** VOC BM10 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:

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 - Direct Current (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:

Cou	rse ID	Course Title
VOC	EL11	Technical Applications
		in Microcomputers
VOC	EL12	Computer Simulation
		and Troubleshooting
VOC	EL50A	Electronic Circuits - Direct Current (DC)
VOC	EL50B	Electronic Circuits (AC)
VOC	EL51	Semiconductor Devices and Circuits
VOC	EL56	Digital Electronics
VOC	EL61	Electronics Assembly and Fabrication
VOC	EL74	Microcontroller Systems
VOC.	TCH60	Customer Relations for the 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 - Direct Current (DC
VOC EL50B	Electronic Circuits (AC)
	<u>or</u>
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.

Certificate Requirements:

Course ID	Course Title
VOC EST50	Electrical Fundamentals
	for Cable Installations
VOC EST52	Fabrication Techniques
	for Cable Installations
VOC EST54	Cabling and Wiring Standards
VOC EL11	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:

Course ID	Course Title
VOC EST56	Home Theater and Home
	Automation Systems
VOC EST62	Electronic Troubleshooting — 1
VOCTCH60	Customer Relations for the Technician
VOC EST64	Electronic Troubleshooting — 2
	<u>or</u>
VOC EST70	C-7 Low Voltage Systems
	License Preparation

Recommended Electives:

VOC EL61	Electronic Assembly and Fabrication
VOC EL62	Advanced Surface Mount Assembly
	and Rework

Electronics Technology

#24073

This one-year certificate is designed for the person requiring background in the basic core courses of electronic technology without an area of specialization. The core courses provide the necessary skills for entry-level employment as an electronic technician. by written information regarding term offering and correct course selection.

Certificate Requirements:		
Course ID	Course Title	
VOC EL11	Technical Applications	
	in Microcomputers	
VOC EL12	Computer Simulation/Troubleshooting	
VOC EL50A	Electronic Circuits - Direct Current (DC)	
VOC EL50B	Electronic Circuits (AC)	
VOC EL51	Semiconductor Devices and Circuits	
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
- $\bullet \ \ Electrical\ and\ Electronic\ Engineering\ Technician$
- Electrical and Electronic Equipment Assemblers

Certificate Requirements:

Certificate nequirements.		
Course ID	Course Title	
VOC EL11	Technical Applications	
	in Microcomputers	
VOC EL12	Computer Simulation	
	and Troubleshooting	
VOC EL50A	Electronic Circuits - Direct Current (DC)	
VOC EL50B	Electronic Circuits (AC)	
VOC EL51	Semiconductor Devices and Circuits	
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	
Recommended Electives:		
VOC EDT11	Technical Engineering Drawing I	
VOC EL62	Advanced Surface mount Assembly	
	and Rework	
VOC EL76	FCC General Radiotelephone Operator	
	License Preperation	

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 - Direct Current (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EL51	Semiconductor Devices and Circuits
VOC EL53	Communications Circuits
VOC EL55	Microwave Communications
VOC EL56	Digital Electronics
VOC EL61	Electronics Assembly and Fabrication
VOCTCH60	Customer Relations for the Technician

Electronics: Industrial Systems #24319

This certificate includes electronic devices for industrial controls and motor controls; including programmable logic controls using the Allen Bradley series of PLC's running Windows ladder logic software.

Certificate Requirements:

Course ID	Course Title
VOC EL11	Technical Applications
	in Microcomputers
VOC EL12	Computer Simulation
	and Troubleshooting
VOC EL50A	Electronic Circuits - Direct Current (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EL51	Semiconductor Devices and Circuits
VOC EL54A	Industrial Electronics
VOC EL54B	Industrial Electronic Systems
VOC EL56	Digital Electronics
VOC EL61	Electronics Assembly and Fabrication
VOCTCH60	Customer Relations for the Technician

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 little
VOC HTH01	Certified Nursing Assistant
VOC HTH04	Acute Care Nursing Assistant
VOC HTH05	Health Careers Resource Center
Certified Nurse Assistant (CNA) Course Completi	
Only VOC HTI	101

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:

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 Title

Course is	course ricie
VOC MF11	Manufacturing Processes
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 little
VOC B005	Business English
VOC CS11	Computer Keyboarding
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:

Business Communications VOC B025

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 Requirements:		
Course ID	Course Title	
VOC CPBC1	Basic Computing — Level 1	
VOC CPBC2	Basic Computing — Level 2	
VOC CPBC3	Basic Computing — Level 3	
VOC CPNET	Internet Research – An Introduction	
VOC CPCC	Creative Computing	

PHOTOGRAPHICS

Photography - Level I #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	Intermediate Photography	
VOC PH016	Fashion Photography	
	<u>or</u>	
VOC PH018	Portraiture and Wedding Photograp	
VOC PH020	Color 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

WELDING TECHNOLOGIES

Welding #24373

This certificate is designed to prepare students for employment in the broad field of welding, leading to occupations in manufacturing, repair and construction. It prepares students to test for the Structural Welding Certificate.

Certificate Requirements:

Course ID Course Title

VOC WL40 Introduction to Welding VOC WL70A Beginning ARC Welding

Note: Any higher level welding course may be substituted for VOC WL 70A.

VOC WL70B Intermediate ARC Welding Recommended Electives: The Welding faculty recommends that students complement their studies with selected elective courses chosen from the list below. Students should meet with a professor of Welding to help you determine which of those electives would best suit your career plans.

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.

Certificate Requirements:

certificate nequirements:		
Course ID	Course Title	
VOCWL40	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	

Welding: 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

Welding: 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

Welding: 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

Basic Skills Basic Skills —GED Preparation **Basic Skills** — Review Basic Skills —Secondary Education (High School)

Chinese 1	234
Civics/American Government	234
Computer Technology	
Earth Science	
Economics	235
English 1	235
English 2	235
English 3	235
English 4	235
Expository Writing	236
Geography	235
Geometry	235
Health Education	235
Music Appreciation	235
Physical Science	235
Planning and Guidance	235
Pre-Algebra	235
Psychology	235
Study Skills	236
Sociology	236
Spanish 1 — Conversation and Writing	236
Spanish 2	236
Typing/Keyboarding	235
United States History	236
World History	236
Basic Skills — Tutoring	
All Subjects Tutoring	236
Tutoring Techniques	
Citizenship	
Citizenship for Naturalization	236
Disabled Students	
Adaptive Academic Preparation	237
Clinical Speech Instruction	
High Tech Center Tutorial/Assistance Class	
Lifelong Learning for the Special Needs Population	
Enclosing Economics for the Special Nectors operation	230

NONCREDIT COURSE LISTINGS

English as a Second Language (ESL)	
English for Specific Uses	237
For Health Professionals	
Levels 1-6 and Pre-Level 1	237
Speaking A , B and C	
Writing A, B and C	237
TOEFL Prep	
Occupational —Administrative Justice	
Administration of Justice Report Writing	239
Administration of the Justice System	
Community Relations	
Concepts of Criminal Law	
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	
Animal Breeding	230
Animal Breeding	
Animal Sanitation and Disease Control	
Animal Science	
Animal Science	
Artificial Insemination of Livestock	
Aviculture — Cage and Aviary Birds	
Beef Production	
Canine Management	
Diesel Engine Repair	
Engine Diagnostics	
Exotic Animal Management	
Feline Management	
Floral Design 1, 2 and 3	
Food Production, Land Use and Politics — A Global Perspective	
Home Gardening	

Landscape Irrigation – Systems Management 241

NONCREDIT COURSE LISTINGS (continued)

Occupational —Architectural Technology	
Basic Computer Apps (CAD)	24
Architectural (CAD) and BIM	
Architectural Computer Aided Design (CAD) 3-D Illustration	
and Animation	24
Architectural Drawing	24
Basic CAD and Computer Application	24
Occupational —Business	
Accounting, Fundamentals of	24
Accounting, Payroll and Tax	24
Accounting, Principles of Financial	24
Bookkeeping — Accounting	24
Business Communications	24
Business English	24
Business Mathematics	24
Business Organization and Management	24
Business, Principles of	24
Continuous Quality Improvement (CQI), Principles of	24
Continuous Quality Improvement (CQI), Team Building	24
Exporting and Importing, Principles of	24
Financial Planning	24
Human Relations in Business	24
Human Resource Management	24
International Business, Principles of	24
Marketing, Principles of	24
Oral Communications for Business	24
Professional Selling	24
Real Estate Practice	24
Retail Store Management and Merchandising	24
Small Business Management	24
Special Issues in Business	24
Special Issues in Marketing	24
Spelling and Vocabulary for Success	24
Using Microcomputers in Financial Accounting	24
Using Microcomputers in Managerial Accounting	24

Occupational —Computer Operations	
Basic Computing, Levels 1, 2, and 3	24
Computer Keyboarding	24
Computer Laboratory	24
Creative Computing	24
Desktop Publishing Software	24
Internet Research, Introduction to	24
Macintosh Applications	24
Microcomputer Applications	24
Microsoft Powerpoint	24
Microsoft Word	24
Office Management Skills	24
Web Site Development	24
Occupational —Computer Technology	
A . C+iC+i D	٠.
A+ Certification Preparation	24
A+ Certification Preparation	
	24
Home Theater, Home Integrations and Home Security Systems	24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation	24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation PC Operating Systems	24 24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation PC Operating Systems PC Servicing	24 24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation PC Operating Systems	24 24 24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation PC Operating Systems PC Servicing PC Troubleshooting	24 24 24 24 24
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	24 24 24 24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation	24 24 24 24 24 24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation	24 24 24 24 24 24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation PC Operating Systems	24 24 24 24 24 24 24 24 24
Home Theater, Home Integrations and Home Security Systems Network+ Certification Preparation	24 24 24 24 24 24 24 24 24 24

Occupational —Electronics FCC General Radiotelephone Operators License Preparation 244 Occupational —Electronics & Computer Technology Occupational —Fashion Design Clothing Construction 1 and 2......245 Fashion Design by Draping.......245

NONCREDIT COURSE LISTINGS (continued)	
Occupational —Geography	
Geographic Information Systems, Introduction to	245
Occupational —Health	
Acute Care Nursing Assistant	245
Anatomy and Physiology, Basic	
BLS Heartsaver Course — Adult	245
Certified Nursing Assistant	
Health Careers Resource Center	
n-Home Care of Alzheimer's and Dementia Clients	
ntravenous Therapy for Radiologic Technology	
Medical Terminology Occupational —Interior Design	240
undamentals of Interior Design	
ntroduction to Interior Design History of Furniture and Decorative Arts	
Materials and Products for Interior Design	
Occupational —Manufacturing Technology	2-10
Manual CNC (Computerized Numerical Control) Operations	246
Manufacturing Processes, 1 and 2	
MasterCAM 1	
MasterCAM, Advanced	
MasterCAM Solids	246
Occupational —Nutrition	
Cooking for your Heart and Health	246
/egetarian Cuisine	
Occupational —Photography & Photographics	
BD Graphics Imagery	247
Color Photography	
Commercial and Illustrative Photography	247
Digital and Film Photography, Basic	247
Digital Design Systems, Introduction to	
Digital Photography for the Beginner	
exploring Color Photography	
ashion Photographylistory of Photography	
iistoi y oi r iiotogiapiiy	24 /

Illustrator Graphics	247
InDesign Graphics	247
Intermediate Photography	
Laboratory Studies in Black & White Photography	247
Multimedia Graphics	247
Photocommunication	247
Photographic Alternatives	247
Photo Portfolio	
Photoshop Imagery	
Photoshop Imagery Extended	
Portraiture and Wedding Photography	247
Occupational —Theater & Theater Arts	
Children's Theater	247
Play Rehearsal and Performance	247
Stagecraft	247
Technical Theater Practicum	247
Theatrical Costuming	247
Theatrical Make-Up	247
Occupational —Tutor Training	
Introduction to Tutoring	248
Tutoring in the Language Arts	
Tutoring as a Supplemental Instructor	
Tutoring in Mathematics	
Tutoring in Reading	248
Occupational —Welding	
Arc Welding, Beginning	248
Arc Welding, Intermediate	
Automotive Welding, Cutting and Modification	
Certification for Welders	
Electric Arc Welding, Basic	
Fabrication and Construction Welding	
Gas Tungsten Arc Welding	
Metal Sculpture	
Oxyacetylene Welding	
Pipe and Tube Welding	
Print Reading and Computations for Welders	
Semiautomatic Arc Welding Process	
-	

	NONCREDIT COURSE LISTINGS (continued)		
Welding, Introduction to	Fall Prevention — Balance and Mobility	Lettering Styles and Advertising Calligraphy	238
Welding Metallurgy248	Handcrafted Needlework for Retail Sales and Boutiques	Lifelong Learning for Older Adults	
Older Adults	Healthy Aging	Lifelong Learning — Current World Events	
	Healthy Aging – Principles of Aquatic Resistance	Oil Painting	
Ceramics – Intermediate Production	Healthy Aging – Principles of Posture and Flexibility238	Production of Boutique Craft for Retail Sales	
Decorative Art Production for Retail Sales, Beginning	Healthy Aging – Principles of Slow Movement238	Sewing and Design	238
Decorative Art Production for Retail Sales, Intermediate	Jewelry/Lapidary Production Design	Watercolor Painting	238
Drawing – Beginning through Advanced	Jewelry Production and Design for Retail Sales		
brawning beginning through Advanced			

BASIC SKILLS

BS ABE01 — Career Information and Guidance

Orientation to the college including enrollment procedures, test score interpretation, course selection, and career information. Course includes academic placement tests and/or vocational assessments available.

BS ABE02 — Adult Basic Education

Improves basic skills of adult learners. Content includes reading comprehension, language, and mathematics. Prepares students for the General Education Development (GED) Exam and the Armed Services Vocational Aptitude Batter (ASVAB) exam.

BS ABE03 — Adult Basic Education--Leadership Development

Leadership styles and individual leadership skills including effective communication, facilitation, problem-solving, decision-making and conflict resolution. Introduction to organizational structures, governance, models and group process.

BS ABE04 — Guidance and Orientation to Special Programs

Provides an overview of special programs at Mt. San Antonio College. Information regarding the College's mission, program guidelines, regulations, and eligibility requirements are presented.

BS ABE05 — Career Development

Career assessment, research and preparation; investigates career fields to determine interest; provides information on required skills and areas for professional growth. Includes assigned time for field investigation, individual assessment and skill building.

BS ABE06 — Basic Skills Foundation

Preparation for college credit courses. Improves reading, mathematics, writing, and critical thinking by assessing current skills. Includes individual education plan to achieve career and educational goals.

BS ABE07 — Re-Entry Work Skills Needed for Today's Workforce

Development of skills necessary for employment. Topics include workplace ethics, job search techniques, resume writing and preparing for an interview.

BS CNSL5 — Career/Life Planning

A systematic approach to self-exploration and career/life planning which includes: identification of values, interests, skills, and 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.

BSHS MUSC — High School - Music Appreciation

Historical, cultural and genre-based aesthetic valuing of music for high school students. Vocabulary, interaction of words and music, influence of religion, theater, government and culture on musical style. 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 access to the internet, thereby completing assignments for courses offered throughout the college.

BS LRN01 — Short Term Review

Intensive review in the following subjects: reading, comprehension, vocabulary, grammar, basic math, pre-algebra, and algebra. Computer programs, instructional materials, and individual assistance are provided.

BS LRN03 — Math Skills Review

Increase basic math knowledge and reduce math anxiety. Topics include fractions, decimals, ratios, proportions, 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 STD80 – Foundations for Academic Success

College success course emphasizing academic achievement that promotes learning through self-awareness, time management, listening, note-taking, oral and written communication, test-taking, memorization and the use of campus resources using a brain-based perspective.

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 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 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 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 MOX01 — Health Aging

Healthy aging, including diet, nutrition, disease prevention, and application of physical fitness principles to maintain health while aging.

OAD MOX02 — Healthy Aging – Principles of Slow Movement

Heath aging, including diet, nutrition, disease prevention, and application of Tai Chi principles to maintain health while aging.

OAD MOX04 — 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 MOX06 — Healthy Aging – Principles of Aquatic Resistance

Healthy aging, including diet, nutrition disease prevention, and application of aquatic resistance principles to maintain health while aging.

OAD 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.

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

Paint on various types of surfaces including fabric, glass, wood, tin, plaster, plastic and china. Includes product design, marketing and proper use of equipment and maintenance.

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

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

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

Investigation; 4th Amendment issues including crime scene search and recording; collection and preservation of physical evidence; modus operandi; suspect profiling scientific aids; sources of information; use of informants; 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 AGNO2 — 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

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 domestic animals, including semen evaluation and processing, heat synchronization and pregnancy diagnosis.

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 AGP70 — Pet Shop Management

The pet industry, pet shop operations and the economic aspects of the retail/whole-sale 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 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.

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.

VOC AGR01 — Horticultural Science

Horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development.

VOC AGR02 — Plant Propagation/Greenhouse Management

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

VOC AGR04 — Park Management

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

VOC AGR05 — Park Facilities

Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses.

VOC AGR13 — Landscape Design

Fundamentals and implementation of landscape design. Principles of design, the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Projects emphasize residential and small commercial sites.

VOC AGR15 — Interior Landscaping

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

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.

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 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

Bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of an accounting project for a company.

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

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. Incudes manufacturing and consolidation worksheets, financial statement analysis, and statements of cash flow.

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 BM51 — Principles of International Business

International business environment with a global perspective. Includes 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

Practical information needed to participate in activities related to the exporting and importing of goods and services. Includes vocabulary, acronyms and information needed for an understanding of and participating in the exporting 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

Organizing, starting, and operating a small business enterprise. Emphasis on entrepreneurial applications in a small business environment.

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 BO05 — Business English

Skills and techniques of English, as applied to business situations. Emphasis on effective document structure.

VOC BO25 — Business Communications

Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports.

VOC B026 — Oral Communications for Business

Designed to help business people communicate more effectively in spoken communication situations such as training sessions, presentations, and professional discussions.

VOC B096 — Spelling and Vocabulary for Success

Advisory Prerequisite: VOC BO05

Learn to spell and define troublesome words. Improve basic spelling and vocabulary used by business and industry. Includes proper use of dictionary; word division; adding suffixes and prefixes; synonyms; computer-related vocabulary; and business vocabulary.

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 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.

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 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. Handson 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

Using Microsoft Word and its editing, formatting and language tools, to create, revise and format various business and report documents. Includes creating 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. Students will visit an offsite facility.

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

Historical survey of racial, cultural, and gender biases in the American corrections system. Impact of cultural, racial and gender differences on correctional staff and client interaction.

VOC CRS35 — Interviewing and Counseling in Corrections

Techniques of interviewing and counseling 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 Circuits - Direct Current (DC)

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 Circuits (AC)

AC circuit theory covering inductors, capacitors, impedance, filters, decibels, and resonance. Analysis involves the use of complex numbers. Stresses passive components.

VOC EL51 - Semiconductor Devices and Circuits

Solid-state devices and circuits, including bipolarjunction and field-effect transistors, rectifier diodes, operational amplifiers, and thyristors. Analog circuits studied include discrete and integrated circuit amplifiers, voltage regulators, oscillators and timers. Emphasizes configurations, classes, load lines, characteristic curves, gain, troubleshooting, measurements 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 and circuits. Stresses transmission lines, Smith Charts, impedance matching, antenna characteristics, wave propagation, 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 — FCC General Radiotelephone Operator Licence Preperation

Prepares qualifies electronics and aviation technicians for the FCC commercial general radiotelephone operator license (GROL).

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

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

Essentials of industry standard apparel construction techniques using a variety of machines and equipment. Students will be given instruction in single needle machine operation, industrial overlock operation and garment assembly.

VOC FSH12 — Clothing Construction 2

Advanced industry construction techniques using overlock and single needle machines.

VOC FSH15 – Aesthetic Design in Fashion

Design principles and influences in apparel selection and fashion design. Projects applying design elements and principles using CAD software.

VOC FSH17 — Textiles

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, patterns 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 and patterns or interpret fashion illustrations. VOC FSH21 is recommended as a pre-requisite for this course.

VOC FSH23 — Patternmaking 2

Intermediate pattern drafting and flat pattern-making, 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 FSH62 — Retail Store Management and Merchandising

Principles and practices used in the retail buying and merchandising environment. This course emphasizes the buyer's role in merchandising management, pricing strategies, promotion, retail formulas and costing calculations.

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:

Enrollment in VOC HLTH 05

VOC HTH04 — Acute Care Nursing Assistant

This course will enhance the existing skills of the CNA and provide the knowledge and job skills to work in various departments of acute care hospitals including med-surgical, obstetrics and pediatrics.

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 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 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 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 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 — Intermediate Photography

Current professional techniques and studio lighting. 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.

VOC PH012 — Photographic Alternatives

Alternative photographic processes. Instant films: lifts and transfers, specialized lighting, stain toning, emulsion coating, scenography and hand-made camera construction will be applied to produce images not considered common to making photographic prints.

VOC PH015 — History of Photography

Survey of the history of photography from circa 1839 to the present. An introduction to concepts of photographic representation and their impact on society.

VOC PH016 — Fashion Photography

Professional illustrative, editorial and advertising fashion photography. Studio and location production in digital capture. Business aspects of operation and working with clients are presented. Off-campus assignments may be required.

VOC PH017 — Photocommunication

Affects that camera controls have on visual communication with photographs. Includes message enhancement using optical and digital controls, depth of field, lenses, lighting, composition, book, black and white vs. color images, and documentary and journalistic styles.

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 — Photo Portfolio

Development of a photography portfolio and marketing materials for use in job application or gallery exhibition purposes. Field trips may be required.

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 — THEATER AND THEATER ARTS

VOC THR14 — Stagecraft

Theory and practice of scenery construction and stage 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 Arc Welding

Electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (AWS.) 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 Shielded Metal Arc (SMAW) and (Flux Cored Arc (FCW) 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

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 Gas Tungsten Arc Welding (GTAW) or tungsten inert gas (TIG) of steel, aluminum, corrosion resisting steel (CRES), and exotic metals. All position welds with many surfaces and transitions.

VOC WL90B — Semiautomatic Arc Welding Process

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

The art of welding and cutting metals commonly used in the automotive industry. Gas Metal Arc (GMAW/MIG), Gas Tungsten Arc (GTAW/TIG), Plasma Arc Cutting (PAC), Oxy-fuel Cutting (OFC) and welding will be covered.

SECTION



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/governance/trustees/policies.html

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. Board Policy (BP 5140) and Administrative Procedure (AP 5140) for Students with Disabilities may be found at http://www.mtsac.edu/governance/trustees/policies.html 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. Visit the website 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.

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. 4233 or (909) 274-4233.
- 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 at ext. 4400 provides personal counseling and medical attention.

Smoking on Campus

Student, employee, and visitor health is a primary concern of Mt. San Antonio College. 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. (BP 3565, AP 3565)

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:

- 1. Causing, attempting to cause, or threatening to cause physical injury to another person.
- Possession, sale or otherwise furnishing any firearm, knife, explosive
 or other dangerous object, including but not limited to any facsimile
 firearm, knife or explosive, unless, in the case of possession of any
 object of this type, the student has obtained written permission
 to possess the item from a College employee, which is concurred with
 by the College President/CEO.
- 3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- 4. Committing or attempting to commit robbery or extortion.
- Causing or attempting to cause damage to College property or to private property on campus.
- 6. Stealing or attempting to steal College property or private property on campus, or knowingly receiving stolen College property or private property on campus.
- 7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.
- 8. Committing sexual harassment as defined by law or by College policies and procedures.
- Engaging in harassing or discriminatory behavior based on disability, gender, gender identify, gender expression, marital status, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law.
- 10. Engaging in intimidating conduct or bullying against another student through words or actions.
- 11. 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.

- Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
- 13. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- 14. Dishonesty, forgery, alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.
- 15. 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.
- 17. 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.
- 18. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- 19. 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.
- 20. Harassment of students and/or College employees that creates an intimidating, hostile, or offensive environment.
- 21. 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 Academic Honesty

All members of the academic community have a responsibility to ensure that scholastic honesty is maintained. Faculty have 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

College Policies and Notices

Cheating and Plagiarism Cheating (Academic Dishonesty)

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 person take an examination for you
- Presenting another person's work as your own
- Forging or altering registration or grade documents
- Submitting collectively developed work as your own, unless specifically allowed by the professor

A professor who determines that a student has cheated may give the student a failing grade for the assignment and should report the alleged academic dishonesty to the Student Life Office, which will maintain a record of the report and appropriate action under the provisions of the Administrative Procedures on Student Discipline (AP 5520).

Students are advised that allegations of dishonesty are serious, and can lead to disciplinary sanctions including suspension and expulsion. (AP 4290)

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.

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.

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 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).

PUBLIC SAFETY DEPARTMENT STA	TIST	ICAL CRIME R	EPORT
Violation 2	010	2011	2012
Murder - Non-Negligent Manslaughter	0	0	0
Murder - Negligent Manslaughter	0	0	0
Sex Offenses - Forcible	0	1	1
Sex Offenses - Non-Forcible	0	0	0
Robbery	0	0	1
Aggravated Assault	1	3	1
Burglary	8	6	4
Motor Vehicle Theft (GTA)	17	5	8
Arson	0	0	0
Liquor Law Violations	1	3	0
Drug Law Violations	2	11	8
Illegal Weapons Violations	0	3	1
Hate Crimes - Race	0	1	0
Hate Crimes - Gender	0	0	0
Hate Crimes - Religion	0	0	0
Hate Crimes - Sexual Orientation	0	0	0
Hate Crimes - Ethnicity/National Origin	0	0	0
Hate Crimes - Disability	0	0	0

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.
- 3. Records of instructional, supervisory, counseling, and administrative personnel which are in the sole possession of such personnel and are not accessible or revealed to any other person except a substitute.
- 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

- Any release of a student's educational records, with the exception listed below, must be made with the student's written consent.
- The College may release copies of or otherwise divulge material in the student's educational records only to the official agencies, groups, officials, or individuals specifically mentioned below:
 - a. College staff members; provided that such employees have a legitimate educational interest to inspect such a record.
 - b. Representatives of the Comptroller General of the United States, the Secretary of Education, and administrative head of an educational agency, state education officials, and the United States Office of Civil Rights, where such information is necessary to audit a program.
 - Accrediting organizations in order to carry out their accrediting functions.

College Policies and Notices

- 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.
- Courts or other agencies in compliance with a subpoena or judicial order. A reasonable effort will be made to notify the student in advance of the compliance by the College.
- 3. Directory Information:
 - a. "Directory Information" means a student's name, community of residence, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student.

- b. Any student desiring to withhold "Directory Information" may file a written request with the Dean, Enrollment Management, within fifteen (15) days of the opening day of each semester or session that the student does not want such information released.
- c. The College reserves the right to limit or deny the release of specific categories of directory information based upon a determination of the best interests of the student(s).

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.cccco.edu/index.asp

SECTION THIRTEEN



Faculty and Academic Administrators

Committed to Student Success



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

Allende, Kristina (2001)

English, Literature & Journalism
A.A., Mt. San Antonio College
B.A., M.A., California State University, Fullerton

Al-Malood, Fawaz (2003)

Consumer & Design Technologies
B.S., University of South Carolina
M.B.A., Columbus University, Mississippi
Ph.D., Pacific Western University, Hawaii

Alvarez, Hansel (2007)

English, Literature & Journalism
B.A., California State University, San Bernardino
M.A., California State Polytechnic University,
Pomona

Alvarez-Galvan, Maya (2000)

English, Literature & Journalism
B.A., M.A., California State University, Los Angeles
M.A., California State Polytechnic University,
Pomona
Ph.D., University of Southern California

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)

Pomona

Physics, Engineering
B.S., University of California, Los Angeles
M.S., California State Polytechnic University,

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

Aquino, Lloyd (2007)

English, Literature & Journalism
B.A., M.A. California State Polytechnic University,
Pomona

Arballo, Madelyn A. (1998)

Director, Adult Basic Education
B.A., Pitzer College
M.A., California State University, Los Angeles
Ed.D., California State University, Long Beach

Archibald, Jeffrey D. (2000)

Communication

B.A., Cornell University M.S., Illinois State University

Arterburn, Pamela (1986)

English, Literature & Journalism
B.A., M.A., California State Polytechnic University,
Pomona

Arvidson-Perkins, Genene (1988)

Nursing

A.S.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

Augustus, Robert (2008)

Sign Language & Interpreting
B.A., California State University, Northridge
M.A., Gallaudet University

Avila, Rocio (2006)

English, Literature & Journalism
B.A., California State Polytechnic University,
Pomona

M.A., California State University, Fullerton

В

Bacigalupi, Stacy (2006)

Psychology, Education
B.A., University of California, Santa Barbara
M.A., California State University, Fullerton

Bartman, Sydney (1986)

English, Literature & Journalism
A.A., Mt. San Antonio College
B.A., University of La Verne
M.A., University of California, Riverside

Beam, Teresa (1991)

Chemistry

B.S., Ohio University
M.S., California State University, Fullerton

Becker, Liza (1998)

Director, ESL

B.A., California State University, Los Angeles M.S., California State University, Fullerton Ed.D., California State University, Long Beach

Belinski, Victor A. (2006)

Chief Technology Officer
B.A., M.A., University of California, Los Angeles

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

Blyzka, John V. (2001)

Computer Information Systems
B.S., University of California, Irvine
M.S., California State University, Fullerton

Boehner-Staylor, Maya (2001)

English, Literature & Journalism
B.A., California State University, Los Angeles
M.A., Northwest Missouri State University

Borella, Frances (1999)

Biological Sciences

A.A., Mt. San Antonio College B.S., California State Polytechnic University, Pomona

M.A., Ph.D., University of California, Riverside

Boryta, Mark (2001)

Earth Sciences, Astronomy
B.A., Amherst College
M.S., Ph.D., New Mexico Institute of Mining
and Technology

Bowen, Melinda (2006)

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)

Nursing

B.S., Plattsburgh State University M.S.N., Syracuse University

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

Brav-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

Brown, Ronald (2006)

Fine Arts

B.F.A., M.F.A., Art Center College of Design

Burdett, John (2013)

Music

B.A. Azusa Pacific University M.M., California State University, Los Angeles Ed.D., University of Illinois

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

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

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

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 Athletics 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)

Nursing

A.D.N., National Taipei College of Nursing

B.S.N., Kaohsiung Medical College

M.A., Oklahoma City University

M.N., University of California, Los Angeles Lifetime Instructor Credential, National Taiwan Normal University

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

Crichlow, Brian (2013)

Kinesiology, Athletics & Dance

Head Coach, Women's Basketball

A.A., Mt. San Antonio College

B.A., University of La Verne

M.S. California Baptist University

Czaja, James (2013)

Vice President, Human Resources

A.A., Orange Coast College

B.A., University of California, Irvine

M.S., California State University, Fullerton

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)

Enalish, 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

Dunipace, Taber (2013)

Commercial and Entertainment Arts

B.S., The Art Institue of California

E

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

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)

Associate Dean, Business (Interim)

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

Gilbert, Cheryl (2013)

Mental Health

B.S., University of La Verne

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 Polytechnic State University,
San Luis Obispo

Guo, Hong (2013)

Librarian

B.A., M.L.I.S., University of California, Los Angeles M.S., California State University, Los Angeles

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 TESOL 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
California Licensed Architect

Hoffman, Harlan (2005)

History, Art History, Geography, Political Science B.A., M.A., California State University, Fullerton Ph.D., University of California, Riverside

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)

Associate Dean, Natural Sciences (Interim)
B.S., M.S., New Mexico Institute of Mining
& Technology

Horton, Tamra (2000)

English, Literature & Journalism
B.A., University of California, Davis
M.A., University of Wyoming
Ph.D., Louisiana State University

Hosea, Phebe (2007)

Mathematics, Computer Science
B.S., M.S., University of California, Irvine

Howell, Luisa (2002)

Foreign Languages

B.A., M.A., California State University, Sacramento

Huang, Kenneth (2006)

Chemistry

M.S., California State University, Long Beach Ph.D., University of California, Santa Barbara

Huang, Shui-lien (1989)

Computer Information Systems
M.A., West Texas State University

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

I

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

Jaeggi, Scott (2013)

Medical Services

A.A., Rio Hondo Community College

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 /
Athletics 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)

Dean, Natural Sciences (Interim)
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 / Head Coach, Men's 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)

Counselina

B.S., University of California, Los Angeles M.S., University of Southern California

Kirchgraber, Albert (1999)

Mathematics, Computer Science
B.S., California State Polytechnic University,
Pomona
M.A., California State University, Fullerton

Kittle, Paul (2004)

Librarian

B.A., University of California, Riverside M.S., Loma Linda University M.S.L.S., University of Southern California

Klawitter, Kenneth (1991)

Communication

B.S., Bradley University, Illinois M.A., Miami University, Ohio

M.A., California State University, Los Angeles

Knapp, Joshua (2000)

Psychology, Education
B.A., University of California, Berkeley
Ph.D., University of California, Santa Barbara

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

L

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

Lovd, Rene (1999)

Mathematics, Computer Science
A.S., Crafton Hills Community College
B.S., M.S., University of California, Riverside

Lujan, Angel (1999)

Counseling

B.A., M.A., California State University, Fullerton

Lynes, Billie (2006)

Nursing

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)

Continuing 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)

Learning Assistance
B.A., M.A., University of Southern California
M.A., California State University, Fullerton

MacDonald, Jennifer (2001)

Program Director, Histologic Technician Biological Sciences A.S., Canadore College, Canada

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

Malmgren, Irene (2013)

Vice President, Instructional Services
B.A., M.A., California State University, Fullerton
M.A., Chapman College
Ed.D., University of La Verne

Maloney, Clark (2012)

Kinesiology & Athletics Head Coach, Men's Basketball 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)

 ${\it Communication}$

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

Miller, Kenneth (2011)

Electronics

B.S., California State Polytechnic University,

Pomona

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

Mvers, Richard (2011)

English, Literature and Journalism

B.S., University of La Verne

M.A., California State Polytechnic University,

Pomona

Ν

Nakamura, Amy Bates (2005)

Dance

B.A., California State University, Fullerton M.F.A., University of California, Irvine

Nassar, Sam (2007)

Counseling

B.A., California State Polytechnic University,

Pomona

M.A., Azusa Pacific University

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)

Enalish, 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)

Computer Information Systems 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, Jason (2013)

Commercial and Entertainment Arts B.F.A., Art Center College of Design

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

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

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 Assistant Coach, Football 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

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)

Nursina

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

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)

Aaricultural Sciences

A.S., Mt. San Antonio College

B.S., California State Polytechnic University, Pomona

Scott, Sarah (2007)

Biological Sciences

B.S., University of Massachusetts, Amherst

M.S., University of Connecticut, Storrs

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)

Learnina 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, Bailev 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

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,

M.S., University of California, Riverside

Tatoian, Vahe (1990)

Pomona

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 / Assistant Coach, 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)

Librarian

B.A., Earlham College

M.L.I.S., University of California, Los Angeles

Uyeno, Gary (1999)

Registered Veterinary Technology B.S., University of California, Davis D.V.M., Iowa State University

V

Vail, Deidre Tucker (1991)

Biological Sciences

B.S., California State Polytechnic University, Pomona

M.S., University of California, Irvine

Velickovic, Jeanne Marie (2012)

Associate Dean, Humanities and Social Sciences B.A., M.A., University of South Africa Ph.D., 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)

Aaricultural 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)

Learnina 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)

Nursina

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

Willis, Roger (2013)

Communication

B.A., California State University, Long Beach

M.A., California State University, Long Beach

B.A., M.A., California State University, Fullerton

Wilson, Randall (1988)

Counseling

B.A., B.S., California State University, Fullerton M.A., University of California, Los Angeles

Wolde-Yohannes, Samuel (2001)

Sociology, Philosophy

B.A., M.A., Ph.D., Pontifical Gregorian University, Rome, Italy

Wolf, Phillip (1995)

Physics & Engineering

B.S., Harvey Mudd College

M.S., California State University, Los Angeles

Woolery, Emily (2000)

Librarian

B.A., Occidental College

M.L.I.S., University of California, Los Angeles

Wright, Carola Z. (2001)

Biological Sciences

B.S., Pharmacy School Minden, Germany

Ph.D., University of California, Irvine

Wright, Jill Y. (1998)

English, Literature & Journalism

B.A., University of California, Irvine

M.A., Ph.D., Claremont Graduate University

Wright, Joan Susan (2005)

Counseling, Adult Basic Education

B.A., M.S., California State University, Fullerton

Υ

Yamagata-Noji, Audrey (1996)

Vice President, Student Services

B.A., M.S., California State University, Long Beach

Ph.D., Claremont Graduate University

Yost, David (2010)

Aircraft Maintenance & Manufacturing Technology B.S., Southern Illinois University

Young, Paula (2008)

Mathematics, Computer Science

B.S., M.S., University of California, Riverside

Z

Zamora, Victor Y. (1998)

Computer Information Systems

B.A., California State University, Los Angeles

Zicree, Steven (2006)

Earth Sciences, Astronomy

B.A., Hamilton College

M.S., University of Arizona, Tucson

Ziolkowski, Tina (2006)

Medical Services

A.S., Mt. San Antonio College

M.S.H.S.-H.P.E., Western University

C.E.N. - Certified Emergency Nurse

C.F.R.N. - Certified Flight Registered Nurse

A	adult education. See continuing education (adult education)	applied laboratory science technology (ALST), 70	social and behavioral sciences, 96-97
ability to benefit, 9	Advanced Placement (AP) credit for general education	aquatics course descriptions, 179	associate in arts degrees (A.A.)
academic distinction, 15	requirements for the associate degree, 14	Arabic course descriptions, 128	area of emphasis requirements, 91
academic freedom, 11	Advanced Placement (AP) examinations, 13	architectural technology	graduation requirements, 63
academic grievances, 252	credit for, 112	certificates, 33-34	astronomy course descriptions, 136-137
academic honors, 15	in CSU/UC general educationbreadth certification, 112	course descriptions, 128-129	athletic facilities, 25
academic policies and requirements, 11-16	advisement, academic counseling/advisement, 9	design concentration major, 70-71	athletics course descriptions, 178-181
academic probation, 15	advisory course, 114	noncredit course descriptions, 241	athletic trainer aide I skills certificate, 52
academic renewal, 16	advisory to a course, 9	technology concentration major, 71	attendance and enrollment, 11-12
academic standards, 15-16	aeronautics course descriptions, 116-117	art	auditing courses, 11
access to educational records, 253	agricultural science	animation courses, 129-131	automotive welding, cutting, and modification
accomodations and academic adjustments,	noncredit course descriptions, 239-241	art history courses, 135-161	certificate, 51
for students with disabilities, 250	occupational training certificates, 221-222	basic studio arts courses, 131	occupational training certificate, 229
accounting	agriculture course descriptions	gallery and professional practices courses, 131	auxiliary computer information systems course descriptions, 147
certificates, 30	animal health technology, 117-118	graphic design and illustration courses, 131-132	aviation science major, 71
course descriptions, 138-139	animal science, general, 118	special studio arts courses, 132	
major, 68	forestry, conservation, 118	three-dimensional studio arts courses, 132-133	В
occupational certificates, 221	general subjects, 118	two-dimensional studio arts courses, 133-135	basic career readiness, certificate of competency, 220
skills certificates, 52	livestock production, 119	art gallery, 25	basic skills
accounting skills certificates	ornamental horticulture, 119-121	articulation with high schools, ROP's, and adult schools, 7	certificate of competency, 220
bookkeeping, 52	pet science, 121	arts division, 3	noncredit course descriptions, 234-236
payroll, 52	agri-technology major, 68	aspire program, 18	and special programs, 217
accreditation, i	air conditioning and refrigeration	assessment and placement, 8-9	basic skills limitations, 11
achievement, certificates of, 28-29	certificate, 31	appeals process, 9	basic studio arts course descriptions, 131
activities transcript, 21	course descriptions, 121-122	assessment center, 18	beginning computer information systems course descriptions, 14
adaptive kinesiology course descriptions, 179	major, 68	continuing education courses, 217	biology course descriptions, 137-138
administration, 2-3	aircraft maintenance technology course descriptions, 123-125	exemption from assessment, 9	blue emergency telephones, 253
administrative services staff, 2	aircraft powerplant maintenance technology, day and evening,	Assessment of Written English (AWE), 7, 8	Board of Trustees, ii, 2
human resources staff, 2	certificate, 31	associate degree, general requirements for, 63	bookkeeping
information and educational technology staff, 2	airframe and aircraft powerplant maintenance technology, day	Associated Students (A.S.) Student Government, 21	occupational training certificate, 222
instruction staff, 2	and evening, major, 68-69	Associate in Arts for transfer degree (AA-T), 97	skills certificate, 52
president's office staff, 2	airframe maintenance technology, day and evening, certificate,	Associate in Science for transfer degree (AS-T), 97	bookstore (SacBookRac), 25
student services staff, 2-3	31-32	Associate in Arts in art history for Transfer, 97-98	botany course descriptions, 138
administration of justice, law enforcement courses, 116	air traffic control course descriptions, 122-123	Associate in Arts in communication studies for transfer, 98	box office, 26
administrative assistant	alcohol and other drugs policies, 250	Associate in Arts in english for transfer, 98-99	bridge program, 18
certificate of achievement, 30	alcohol/drug counseling	Associate in Arts in history for transfer, 99	building automation
major, 68	certificate, 32	Associate in Arts in music for transfer, 100	certificate, 34
occupational training certificates, 227-228	course descriptions, 125	Associate in Arts in political science for transfer, 100	major, 71
skills certificate, 52	major, 69-70	Associate in Arts in psychology for transfer, 100-101	bursar's office and photo ID, 18
administrative justice, noncredit course descriptions, 238-239	Alpha Gamma Sigma, 15	Associate in Arts in theater arts for transfer, 101	business certificates
administrative services, 2	American language course descriptions, 126-127	Associate in Science in mathematics for transfer, 101	business management, 35-36
admission and registration	anatomy and physiology courses, 127	associate in science degree (A.S.)	human resource management, 35
acceptance of domestic coursework from accredited colleges	animal health technology course descriptions, 117-118	alphabetical listing, 67	international, 35
and universities in the United States, 7	animal science, general, course descriptions, 118	graduation requirements, 63	retail management, 36
acceptance of international coursework from accredited	animals on campus policy, 250	listing by instructional division, 67	small business management, 36-37
colleges and universities outside the United States, 7	animation	programs of study leading to, 68-91	business course descriptions
admission of international students, 7-8	certificates, 32-33	associate in arts degree (A.A.) areas of emphasis requirements	accounting, 138-139
application to the college, 6	major, 70	business, 91-92	business communications, 139
articulation with high schools, ROPs, and adult schools, 7	skills certificates, 52	communication, 92	economics, 139-140
concurrent enrollment for K-12 students (special admits), 6	anthropology course descriptions, 127	fine arts, 92-93	law, 140
criteria for determination of legal residence, 6	appeals process	humanities, 93	management, 140-141
enrollment fees and expenses, 8	dismissal, 16	information technology, 93-94	noncredit courses, 241-242
evaluation of other college coursework, 6-7	placement tests, 8-9	kinesiology and wellness, 94	paralegal, 141-142
registration, 8	residence classification, 6	language arts, 94-95	real estate, 142-143
residence classification, 6	application	mathematics, 95	sales, merchandising and marketing, 143
residency requirements (for fee purposes), 6	to the college, 6	music, 95-96	business division, 3
admissions and records, 18	for graduation, 63	natural sciences, 96	

business majors	CARE (Cooperative Agencies Resources for Education), 18	computer graphics technology proficiency skills certificate, 56	older adult program, 218
accounting, 68	career and transfer services, 18-19	computer information systems (CIS), course descriptions	other community education services and programs, 218
general business, 77	career development certificate of competency, 220	auxiliary, 147	secondary education certificate of competency (high school
human resource management, 78	career services, 18-19	beginning, 147-148	program), 221
international business, 79	catalog rights, 12	database, 148	student services, 217
management, 71	catering skills certificate, 58	information processing, 148	continuing education course descriptions
marketing management, 81	certificates	management, 148	administrative justice, 238-239
real estate, 88	of achievement, 28-29	networking, 149-150	agricultural science, 239-241
retail management, 71	noncredit certificates of competency, 28	programming, 150-151	architectural technology, 241
small business management, 90	noncredit list of, 219	security, 151-152	basic skills, 234-236
business management, occupational training certificates, 242	occupational training, 219	web applications, 152-153	business, 241-243
business skills certificates	requirements for, 28	computer information systems (CIS), noncredit course	citizenship, 236
human resource management, 53	skills certificates, 29	descriptions, 242-243	computer technology, 243
international, 53	certified nursing and acute care nursing assistant, occupational	computer information systems (CIS) professional certificates	correctional science, 243
management, 53	training certificate, 227	C++ programming, 53	disabled students, 236-237
retail management-level I, 53	cheating policy, 252	Excell and Access, 54	electronics, 243-244
small business management, 53	chemistry course descriptions, 143-144	Java programming, 54	electronics and computer technology, 244
bus passes, 25	chemistry placement, 9	LINUX, 54	English as a Second Language, 237
	child care access grant funding, 25	networking, 54	fashion and fashion design, 245
C	child development	network security, 54	geography, 245
(++	course descriptions, 144-146	object-oriented design & programming, 55	health, 245-246
certificate, 49	major, 72	SQL, 55	manufacturing technology, 246
professional certificate, 53	child development center, 25	telecommunications, 55	nutrition, 246
calendar, vi-viii	child development permit, 53, 72, 144	visual basic programming, 55	older adults, 237-238
Cal Grant program, 20, 111	children on campus, policy, 250	web programming, 56	photography and photographics, 246-247
California independent colleges and universities, 111	children's program certificate	Windows operating system administration, 56	theater and theater arts, 247
California State University (CSU)	administration, 37	computer information technology, introduction to, certificate, 59	tutor training, 248
American Institutions & U.S. History graduation requirement,	general, 37	computerized accounting	welding, 248
107	skills certificate, 53	certificate, 30	continuing education division, 3
CSU/UC cross enrollment program, 114	teaching, 38	occupational training certificate, 222	continuing student, defined, 12
general education requirements, 105-107	child specialization (school age) certificate, 50 Chinese course descriptions, 146	computer network administration and security management,	continuous attendance, 12 convenience stores, 26
graduation requirements only in U.S. history, constitution, and American ideals, 110	CIS professional certificate. See computer information systems	major, 73	convenience stores, 26 corequisite, 9, 114
lower division transfer admission requirements, 104	(CIS) professional certificates	computer programming major, 73	correctional sciences
university locations, 104	citizenship, noncredit course description, 230	professional certificates, 53-54	certificate, 39
upper division transfer admission requirements, 104	classification of student by credits, 12	computer science course descriptions, 153-154	course descriptions, 154-155
CalWORKs (California Work Opportunities and Responsibility to	classroom visitors and other attendees policy, 250	computer systems technology	major, 74
Kids), 18	clearing probation, 15	certificate, 39	noncredit course descriptions, 243
Campus Café, 25	clubs and organizations, 21	occupational training certificate, 226	counseling/advisement, 9
campus disturbances policy, 250	coaching skills certificate, 56	computer technology, noncredit course descriptions, 243	continuing education, 211
campus emergency phone system, 253	coerequisites, challenging, 9	concurrent enrollment for K-12 students (special admits), 6	Educational Plan, 9
campus facilities, 25-26	College Calendar, 2013-14, vi-viii	construction inspection	exemption from, 9
art gallery, 25	College Directory, ix	certificate, 39	counseling course descriptions, 155
athletic facilities, 25	college library, 4	major, 74	course descriptions, 114-215
bookstore (SacBookRac), 25	college organization, 2-3	consumer relations certificate, 39	course prefix listing, 115
Campus Café, 25	commercial flight, major, 72	continued progress probation, 16	course prerequisites, 9, 114
child development center, 25	complaints, 21, 250, 252	continuing education (adult education)	course registration, 18
Farm, 25	computer and networking technology	basic skills and special programs, 217	credit by examination, 13-14
food services, 25	certificates, 38	basic skills course descriptions, 234-236	credit for Advanced Placement (AP) tests, 13-14, 112
Mountie Grill, WOW at, 26	course descriptions, 154	citizenship course description, 236	credits and grades, 12-14
performing arts center, 26	major, 72-73	credit/noncredit combined courses, 217	Advanced Placement (AP) credit for general education
performing arts center box office, 26	occupational training certificate, 226	English as a second language (ESL), 217	requirements for the associate degree, 14
Randall Planetarium, 26	computer database management systems major, 72	health careers resource center (HCRC), 218	classification of students by credits, 12
wellness center, 25	computer graphics course descriptions, 146-147	language learning center, 217	credit by examination, 13-14, 106
wildlife sanctuary, 26	computer graphics digital technology major, 73	noncredit certificates of competency, 220-221	credit for current license holders, 14
campus hours, policy, 250	computer graphics multimedia specialist certificate, 38-39	noncredit course listings, 230-233	credit for extra institutional learning, 14
cancelled classes, 8	computer graphics print specialist certificate, 39	occupational training certificates, 219	credit for military training, 14

definition of a unit of credit, 12	electronic assembly and fabrication	evaluation of other college coursework, 6, 7	general business major, 77
final examinations, 12	occupational training certificate, 226	Excel and Access certificate, 54	general childcare funding, 25
grading system, 12	skills certificate, 56	exemption from assessment, 9	general education outcomes (GEOS), 64
incomplete, 12	electronics	Express Stop, 26	general education requirements, 63-64
international baccalaureate credit for general education	course descriptions, 159-160	extended opportunity programs and services (EOPS), 19	Generations Program, 218
requirements for the associate degree, 14	industrial systems certificate, 41	extra institutional learning credit, 14	geography
IP (in progress), 12	noncredit course descriptions, 244	eye protection policy, 250	course descriptions, 169-170
MW (military withdrawal), 12	occupational training certificates, 226-227	cyc protection poncy, 250	noncredit course descriptions, 245
pass/no pass grades, 13	electronics and computer engineering technology	_	geology course descriptions, 170
RD (report delayed), 12	certificate, 40	F	German course descriptions, 170
work-experience education, 23	major, 74-75	faculty and academic administrators directory, 256-267	government, student, 21
W (withdrawal), 12	occupational training certificate, 227	family and consumer sciences, course descriptions, 165-166	GPA requirement, 63
rime prevention, 253	electronics communications	the Farm, 25	grading scale, 12
SU/UC cross enrollment program, 108	certificate, 40	fashion and fashion design	grading scale, 12 grading system, 12-14
ulinary arts, skills certificate, 56	1	major, 76	graduation, application for, 63
urrent license holders, credit for, 14	occupational certificate, 221	noncredit course descriptions, 245	
unent license noiders, credit for, 14	electronics systems technology	fashion design-computer aided skills certificate, 57	graduation honors, 15
D	course descriptions, 160	fashion merchandising and design	graduation requirements 2013-2014, 63-66
lance course descriptions	occupational training certificates, 226	certificates, 42-43	graphic design
activity, 155-157	electronics technology	course descriptions, 166-167	level II certificate, 44
theory, 157-158	certificate, 40	major, 76	level I skills certificate, 58
lance studio, 26	occupational training certificate, 226	fees	graphic design and illustration courses, 131-132
lance teacher skills certificate, 56	electronic systems technology	continuing education courses, 217	major, 77
latabase management systems	level I skills certificate, 57	enrollment fees and expenses, 8	grievance process, 252
major, 72	level II certificate, 40	fee waiver program, 19, 20	
lean's list, 15	occupational training certificates, 226	refund of, 8	H
lefinition of terms, 12, 114	eligibility requirement, for enrolling in a course, 114	student activity fee, 21	health, noncredit course descriptions, 245-246
legree applicable course, 114	emergencies, 21, 251, 252, 253	student activity rec, 21 student representation fee, 8	health careers resource center (HCRC), 218
lisabled student programs & services (DSP&S), 19	emergency medical services	final examinations, 12	health services, student, 20
lisabled students programs & services (D31 &3), 19	course descriptions, 160-161	financial aid, 19-20	high school program, 221
course descriptions, 158	major, 75		histologic technician training major, 77
	emergency medical technician	financial planning accounting certificate, 30	history, of Mt. San Antonio College, 1
"Disabled Person" permit, 19	course descriptions, 161	fire technology	history course descriptions, 171-172
noncredit course descriptions, 236-237	skills certificate, 57	certificate, 43	histotechnology course descriptions, 172-173
personal care attendants, 19, 250	emergency medical technician-paramedic (EMT-P) certificate,	course descriptions, 167-168	honors
policy for providing accommodations and academic	41-42	major, 77	dean's list. 15
adjustments for, 250	emergency phone system, 252	fitness course descriptions, 181-182	graduation honors, 15
study skills laboratory, 218	emergency procedures, 252	fitness specialist/personal trainer certificate, 57	president's list, 15
liscipline, student, 21, 252, 253	enforcement, student discipline code of conduct, 253	floral design, occupational training certificate, 222	honors program, 15
lismissal	engineering courses, 161-162	food services, campus, 25-26	entrance requirements, 15
appeal of, 16	engineering design technology	food services certificate, 58	requirements for "Honors Scholar" designation, 15
reinstatement after, 16	certificates, 42	Foothill bus passes, 25	horse ranch management
listance learning program, 4, 23	course descriptions, 162-163	forestry, conservation course descriptions, 118	certificate, 44
lress regulation, 250	major, 76	Free Application for Federal Student Aid (FAFSA) form, 19-20	major, 78
lriving and parking, policies, 250		French course descriptions, 168-169	' '
lropping courses, 11	English as a second language (ESL)	freshman, defined, 12	occupational training certificate, 222
E	certificates of competency, 220-221	full-time student, defined, 12	hospitality and restaurant management
conomics course descriptions, 139-140	continuing education course descriptions, 237	F-1 Visa, 7-8	catering certificate, 58
•	English course descriptions		course descriptions, 173-174
ducational paraprofessional major, 74	composition, 163-164	G	food services certificate, 58
ducational Plan, 9, 103	literature, 164-165	gallery and professional practices course descriptions, 131	hospitality management certificates, 58
ducational records	English placement test, 8	gallery design/operation and art profession certificate, 58	major, 78
access to, 253	English prerequisites, 9	game and interactive multimedia design	restaurant management certificates, 58
challenge of, 16	enrollment fees and expenses, 8	certificate, 33	humanities and social sciences division, 3
definition of, 16	EOPS. See extended opportunity programs and services (EOPS)	skills certificate, 52	humanities course descriptions, 174
release of information, 253	equal opportunity statement, 252	gas tungsten arc welding	human resource management
transcripts, 16	equipment technology major, 76	certificate, 51	certificates, 35
transfer of information to third parties, 254	escort service, 20, 251	occupational training certificate, 229	major, 78
ducation course descriptions, 158-159	ESL. See English as a second language (ESL)	GED preparation, certificate of competency, 221	occupational training certificate, 224-225
	I .	GED preparation, certificate of competency, 221	1

skills certificate, 53	international business	library and learning resources, 23	Mountie Stop, 26
human resources staff, 2	certificates, 35	library and learning resources division, 4	Mountie volunteer program (MVP), 218
hybrid (online-supported) classes, 23	major, 79-80	licensed vocational nurse (LVN)	Mt. San Antonio College
_	occupational training certificates, 225	career mobility track certificate, 59-60	2013-14 College Calendar, vi-viii
1	skills certificate, 53	to RN, major, 80-81	College Directory, ix
IELTS, 7	international students	licensed welder	faculty and academic administrators directory, 256-267
IGETC. See intersegmental general education transfer curriculum	admission, 7	certificate, 51-52	history, 1
(IGETC)	international student programs, 20	occupational training certificate, 228	human resources, 2
incomplete grades, 12	intersegmental general education transfer curriculum (IGETC)	limitations on repeating courses, 11	mission, vision, and values, 1
independent colleges and universities, 111	certification, 111	LINUX professional certificate, 54	policies and notices, 250-254
individual sports course descriptions, 182-184	intersessions (short-term classes), 11	literature course descriptions, 164-165	multiple degrees, 63
industrial design engineering	introduction to computer information technology certificate, 59	livestock management	music course descriptions, 190-193
3 3 3			music recital hall, 26
certificates, 44	IP (in progress), 12	certificate, 47	
course descriptions, 174-175	Italian course descriptions, 177	major, 81	MW (military withdrawal), 12
major, 78		occupational training certificate, 223	NI.
infant/toddler development certificate, 45	J	livestock production course descriptions, 119	N
information and educational technology staff, 2	Japanese course descriptions, 177-178	lost and found, 21	natural sciences division, 4
information and operating systems security certificate, 58	Java programming professional certificate, 54	LVN. See licensed vocational nurse (LVN)	network administration and security management major, 71
inspection and estimating, building course descriptions, 175	journalism course descriptions, 178-179		networking professional certificate, 54
instructional divisions		M	network security professional certificate, 54
arts division, 3	K	machine operator certificate, 60	noncredit certificates of competency, 220-221
business division, 3	kinesiology, athletics and dance division, 3	management course descriptions, 140-141	noncredit course listings, continuing education, 230-233
continuing education division, 3	kinesiology course descriptions	managerial accounting certificate, 30	noncredit education. See continuing education (adult education)
distance learning program, 4	adaptive, 179	manufacturing technology	non-discrimination policy, 250
humanities and social sciences division, 3	aquatics, 179	certificate, 47	nonresident, defined, 6
kinesiology, athletics and dance division, 3	athletics, 179-181	course descriptions, 186	not degree applicable courses, 114
learning assistance center (LAC), 4	fitness, 181-182	major, 81	notice of students' rights, 253-254
library and learning resources division, 4	individual, 182-184	noncredit course descriptions, 246	nursery management
natural sciences division, 4	team sport, 184	occupational training certificates, 227	certificate, 48
technology and health division, 4	theory, 184-185	marketing, sales, and merchandising course descriptions, 143	occupational training certificate, 223
instruction and learning resources, 23	kitchen and bath design certificate, 45	marketing management	nursing
distance learning program, 23	kitchen and bath design major, 79	certificate, 47	course descriptions, 193-194
language learning center, 23		major, 81-82	major, 83-84
learning assistance center, 23	L	MasterCAM	nutrition and food
library, 23	landscape and park maintenance	certificate, 58	credit course descriptions, 194-195
Math Activities Resource Center (MARC), 23	certificate, 46	occupational training certificate, 227	noncredit course descriptions, 246
Transfer Math Activities Resource Center (T-MARC), 23	occupational training certificate, 223	Math Activities Resource Center (MARC), 23	nutrition certificate, 60
work experience education, 23	landscape design and construction	mathematics	
Writing Center, 23	certificate, 46	course descriptions, 186-188	0
instruction staff, 2	occupational training certificate, 223	prerequisites, 9	object-oriented design and programming professional certificate,
integrated pest management major, 78-79	landscape equipment technology	mathematics placement test, 8	55
Inter-Club Council (ICC), 21	certificate, 46	matriculation, 5-9	obligations, student, 8
	· ·		
interior design	occupational training certificate, 223	medical terminology course descriptions, 188	occupational training certificates of completion, 222-229
certificates, 45-46	landscape irrigation	mental health/psychiatric technician	oceanography course descriptions, 195
course descriptions, 175-176	certificate, 46	certificate, 47	office computer applications, occupational training certificate, 228
interior design major, 79	occupational training certificate, 223	course descriptions, 189	office technology occupational training certificates, 227-228
kitchen and bath major, 79	language learning center (LLC), 23, 217	major, 82-83	older adults, continuing education course descriptions, 237-238
kitchen and bath specialization certificate, 45	Latin course descriptions, 185	merchandising, sales, and marketing course descriptions, 143	open enrollment, 252
noncredit course description, 246	law enforcement	meteorology course descriptions, 189-190	operating system administration professional certificate,
occupational training certificate, 227	certificate, 46	Metro bus passes, 25	Windows, 56
skills certificate, 59	major, 80	microbiology course descriptions, 190	organizations, student, 21
interior landscaping	leadership course descriptions, 185	microcomputer productivity software certificate, 60	orientation
certificate, 46	learning assistance center (LAC), 4, 23	military refund, 8	continuing education, 217
occupational training certificate, 223	learning assistance course descriptions, 185-186	military training, credit for, 14	exemption from, 9
international baccalaureate credit for general education	learning communities course descriptions, 186	military withdrawal (MW), 12	ornamental horticulture
requirements for the associate degree, 14	legal residence, criteria for determination of, 6	mission, of the college, 1	course descriptions, 119-121
	library, 23	Mountie Grill, WOW at, 26	major, 84
	library and instructional media course descriptions, 186	mounte dim, Hoff at, 20	major, o i
	morary and instructional incula course aescriptions, 100	I .	I .

	preschool program, state, 25	records. See educational records	short-term classes (intersessions), 11
P	president's list, 15	refunds sign language/interpreting	
paralegal/legal assistant	president's office staff, 2	of fees, 8	certificate, 50-51
course descriptions, 141-142	primary term, defined, 11	textbooks and supplies, 25	course descriptions, 207-209
major, 84	Prime Stop, 26	registered veterinary technology major, 89 major, 90	
paramedic (EMT-P) certificate, 41-42	privacy act, 253	registration	skills certificates, 52-60
park and sports turf management major, 84-85	probation	cancelled classes, 8	small business management
parking, 250	academic probation, 15-16	enrollment fees and expenses, 8	certificates, 36-37
"disabled person" permit, 19	clearing, 15	refund of fees, 8	major, 90
permit, 8	continued probation, 16	student obligations, 8	occupational training certificates, 225-226
park management	continued progress probation, 16	reinstatement after dismissal, 16	skills certificate, 53
certificate, 48	and dismissal status, 16	release of educational records information, 253-254	smoking on campus, 250
occupational training certificate, 224	progress probation, 16	renewal, academic, 16	sociology course descriptions, 209-210
part-time student, defined by credits, 12	program and course student learning outcomes (SLOs), 64	repeating courses	Solomon Amendment, 254
pass/no pass grades, 13	programming. See computer programming	limitations on, 11	Sophia B. Clarke Theater, 26
payroll	programs of study leading to a certificate, 30-61	repeatable courses, 11	sophomore, defined, 12
occupational training certificate, 222	programs of study leading to an associate degree, 62-101	repeating courses previously passed, 11	Spanish course descriptions, 210-211
skills certificate, 52	programs of study leading to transfer, 97	report delayed (RD), 12	special studio arts courses, 132
performing arts center, 26	progress probation, 15-16	required GPA, 63	speech course descriptions, 211-212
box office, 26	psychiatric technician	Reserve Officer Training Corps (ROTC), 250	sports turf management
personal care attendants, 19, 250	certificate, 47	residence classification, 6	certificate, 51
petitions for exceptional action, 12	course descriptions, 189	appeal, 6	major, 84
pet science	major, 82-83	residency requirement, 63	occupational training certificate, 224
certificate, 48	to RN major, 85-86	resident, defined, 6	SQL professional certificate, 55
course descriptions, 121	psychology course descriptions, 199-200	respiratory therapy	Stadium, Hilmer Lodge, 25
major, 85	public safety department	course descriptions, 206-207	standards of conduct, 251
occupational training certificate, 224	annual security report, 252	major, 89-90	state preschool program, 25
philosophy course descriptions, 196	campus number, 252	restaurant management skills certificates, 58	student academic honesty policy, 251
Phi Theta Kappa, 15	statistical crime report, 253	retail management	student activity fee, 21
photographics and photography	Public Safety Escort Service, 20	certificates, 36	student complaints, 252
noncredit course descriptions, 246-247	public works/landscape management certificate, 49	major, 71	Student Discipline Policy, 21
occupational training certificate, photography, 228		occupational training certificates, 225	student government, 21
photography certificates, 48-49	Q	skills certificate, 53	student health services, 20
photography credit course descriptions, 196-198	Quick Stop, 26	retest policy, assessment and placement, 9	student learning outcomes (SLOs), program and course, 64
photography digital technician certificate, 49		rights and privacy act, 253-254	Student Life Office/Student Center, 21
photography major, 85	R	right to know rates, 254	student obligations, 8
photo ID cards, 18	radio and television course descriptions, 200-203		student rights and privacy act, 253-254
physical education courses. See kinesiology course descriptions	radio broadcasting	S	student right-to-know rates, 254
physical education major, 85	behind-the-scenes certificate, 49	SacBookRac, 25	student services and student life, 18-21
physical science course descriptions, 199	behind-the-scenes major, 86-87	sales, merchandising and marketing course descriptions, 143	admissions and records, 18
physician assistant preparatory course descriptions, 198	behind-the-scenes skills certificate, 61	schedule of classes, 8	aspire program, 18
physics course descriptions, 198	on the air certificate, 50	scholastic honor, 15	assessment center, 18
Pilates professional teacher training phase I: mat and reformer, 60	on the air major, 87	school age child specialization certificate, 50	Associated Students (AS) Student Government, 21
placement services, career. See career and transfer services	on-air skills certificate, 61	secondary education certificate of competency (high school	bridge program, 18
placement tests	radiologic technology	program), 221	bursar's office and photo ID, 18
appeals process, 9	course descriptions, 203-205	security, campus. See public safety department	CalWORKs (California Work Opportunities and Responsibility to
placement test and eligibility time limits, 9	major, 87-88	security, computer information systems, course descriptions,	Kids), 18
retest policy, 9	Randall Planetarium, 26	151-152	campus clubs and organizations, 21
test scores and placement from other colleges, 9	RD (report delayed), 12	security escort service, 20	CARE (Cooperative Agencies Resources for Education), 18
plagiarism policy, 252	reading course descriptions, 205-206	semiautomatic arc welding	career and transfer services, 18-19
planetarium, 26	reading placement, 8	certificate, 52	counseling center, 19
policies and notices, 250-254	real estate	major, 91	disabled student programs & services (DSP&S), 19
political science course descriptions, 199	broker certificate, 50	occupational training certificate, 229	extended opportunity programs and services (EOPS), 19
pre-collegiate basic skills courses, 4, 11	course descriptions, 142-143	service learning	financial aid, 19-20
prerequisites, 9, 114	major, 88	credit course descriptions, 207	international student programs, 20
challenging, 9	sales certificate, 61	sexual harassment and sexual violence policy, 250	public safety escort service, 20
		Short Stop, 26	student clubs and organizations, 21

student health services, 20 student life office/student center, 21 veterans' services, 21 student services staff, 2-3 student unit limits, 11 studio arts courses basic studio arts, 131 special studio arts, 132 three-dimensional studio arts, 132-133 two-dimensional studio arts, 133-135 Studio Theater, 26 study techniques course descriptions, 213 surveying course descriptions, 213

T

teaching certificate, children's program, 38 team sports course descriptions, 184 technology and health division, 4 technology-related courses, 213 telecommunications professional certificate, 55 television crew certificate, 51 television production major, 91 Test of English as a Foreign Language (TOEFL), 7 theater and theater arts credit course descriptions, 213-214 noncredit course descriptions, 247

theory, kinesiology course descriptions, 184-185 three-dimensional studio arts course descriptions, 132-133 tradigital animation level II certificate, 33 level I skills certificate, 52 transcripts, 16 Transfer Math Activities Resource Center (T-MARC), 23 transfer of information to third parties, 254 transfer to California colleges and universities programs of study leading to, 103 transfer courses, defined, 114 transfer requirements, 104 university transfer major options, 103 tree care and maintenance certificate, 51 occupational training certificate, 224 tutorial services, 4 tutor training course descriptions, 214 noncredit course descriptions, 248 occupational training certificate, 219 two-dimensional studio arts course descriptions, 133-135 U

unit limits, 11

unit of credit, defined, 12 University of California (UC) branch locations, 108 credit for kinesiology activity courses, 114 credit limitation, 114 intersegmental general education transfer curriculum (IGETC), V

109-110 language other than English requirement, 110 minimum admission requirements, 108 transfer courses, 114 transfer requirements, 108 university transfer major options, 103 values, of the college, 1 vending machines, 26 veterans' services, 21 veterinary technology major, 89 vision, of the college, 1 visual basic programming professional certificate, 55 skills certificate, 61 W web applications, course descriptions, 152-153

web design certificate, 51

web programming professional certificate, 56 welder, occupational training certificates automotive welding, cutting, & modification, 229 gas tungsten arc welding, 229 licensed welder, 228 semiautomatic arc welding, 229 welding certificates, 51-52 course descriptions, 214-215 noncredit course descriptions, 248 skills certificate, 61 welding technologies, occupational training certificate, 229 welding-semiautomatic arc welding certificate, 52 major, 91 occupational training certificate, 229 wellness center, 26 Windows operating system administration professional certificate, 56 withdrawal from classes, 12 from the college, 11 with honors, 15 work experience education, 23 WOW at Mountie Grill, 26 Writing Center, 23 W (withdrawal), 12

LEGEND FOR CAMPUS MAP

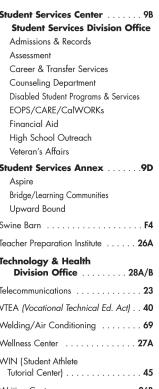
	Administration 4
	Academic Senate
	Administrative Services
	Fiscal Services
	Human Resources Instruction Office
	Mail Center
	Marketing, Communication & Public Affairs
	Payroll & Purchasing
	Printing Services
	Research & Institutional Effectiveness
	48th Agricultural District Office F10
	ACES
	Adult Basic Education Center 30
	Agricultural Sciences 80
	Agricultural Technology Center F3
	Animation Drawing Lab 13
	Art Center 1A/B
	Art Computer Graphics Lab 13
	Art Gallery/Classrooms 1B/C
	Arts Division Office 16
	Asian American Pacific Islander Program16B
	Auxiliary Services
	Biological Services 7, 11, 60 & 61
ΪŤ	Bookstore (SacBookRac)9A
	Bursar's Office/Photo ID/Permits 9A
	Business Division Office 17
	Business Faculty Offices 18A, B
ΪÎ	Campus Cafe 8
	Center of Excellence 16-17C
	Chemistry
	Child Development Center North 9E
	Child Development Center South 19A
	Child Development Classes 19B
	Child Development Faculty Offices 18A
ΪĪ	Common Grounds 8
	Communication Department 26D
	Continuing Education Division 40
	Construction Offices 23
	Counseling
	Disabled Student Services 9B

English
Equipment Technology Lab F7
ESL Classrooms 31A/B & 66
Exercise Science/Wellness Center 27A
Express Stop
Fashion
Foreign Languages
Forensics
Foundation Office 12A
Founders Hall
Health Careers 67A
Health Careers Resource Center 67B
Heating/Air Conditioning 69
High School Referral/Adult Diploma Programs 32, 33 & 38A-B
History/Geography/ Political Science
Honors Program
Horticulture Units
Hospitality & Restaurant Mgmt 19B
Humanities/Social Sciences Division Office
Humanities/Social Sciences26A, B & D
Information Technology 23 & 23A
Interior Design
Journalism
Landscaping/Irrigation Lab F2C
Language Center 66 ESL
Learning Technology Center 6 Library & Learning Resources Division Office Campus Events
KSAK Radio
Learning Assistance Center
Library
Media Services Tutorial Services/Supervised Tutoring
TV Production/Broadcasting
Livestock Pavilion

Facilities Management 47

	Math & Science Bldg	61
	Math Tutoring	61
	Mental Health Faculty Offices	67A
ĬÎ	Mountie Grill	. 19C
ΪÎ	Mountie Stop	. 9A
	Natural Sciences Division Office	61
	Natural Sciences Complex 7, 11, 60	& 61
	Nutrition	. 19B
	Older Adult Programs	36
	Parking Office (Violations)	23
	Performing Arts Center	2
	Box Office	
	Dance Studio	
	Feddersen Recital Hall Music/Dance/Theater Classes	
	Clarke Theater	
	Studio Theater	
	Kinesiology, Athletics & Dance Division Office	45
	Field House	
		3
	,	27C
		. 27B
	Photographics	. 13
	Picnic Area/Restrooms	F1A
	Planetarium	26C
Ψŧ	Prime Stop	. 61
	Public Safety Department	23
	Receiving/Transportation	. 48
	Regional Health Occupations Resource Center (RHORC)	. 35
	Science Laboratories Building	. 60
	Science - NORTH	. 11
	Science - SOUTH	7
ΪÎ	Short Stop	67A
	Student Health	67B
	Student Life Center	. 9C

Student Services Center 9
Student Services Division Office
Admissions & Records
Assessment
Career & Transfer Services
Counseling Department
Disabled Student Programs & Services
EOPS/CARE/CalWORKs
Financial Aid
High School Outreach
Veteran's Affairs
Student Services Annex
Aspire
Bridge/Learning Communities
Upward Bound
Swine Barn
Teacher Preparation Institute 26
Technology & Health
Division Office 28A/
Telecommunications 2
VTEA (Vocational Technical Ed. Act) 4
Welding/Air Conditioning6
Wellness Center
WIN (Student Athlete
Tutorial Center)
Writing Center 26
-







DAY-USE PERMIT DISPENSER



HANDICAP PARKING



30 MINUTE PARKING



PARKING METERS



VAN ACCESS SERVICES



FOOD/SUPPLIES



EMERGENCY *
BLUE PHONE



OUTDOOR **GREEN** PUBLIC PHONE



SMOKING AREA

*NOTE: One phone at each location is set-up for auto dial to Public Safety Police at no charge. For Emergency ONLY. Revised 8, Revised 8/12/13



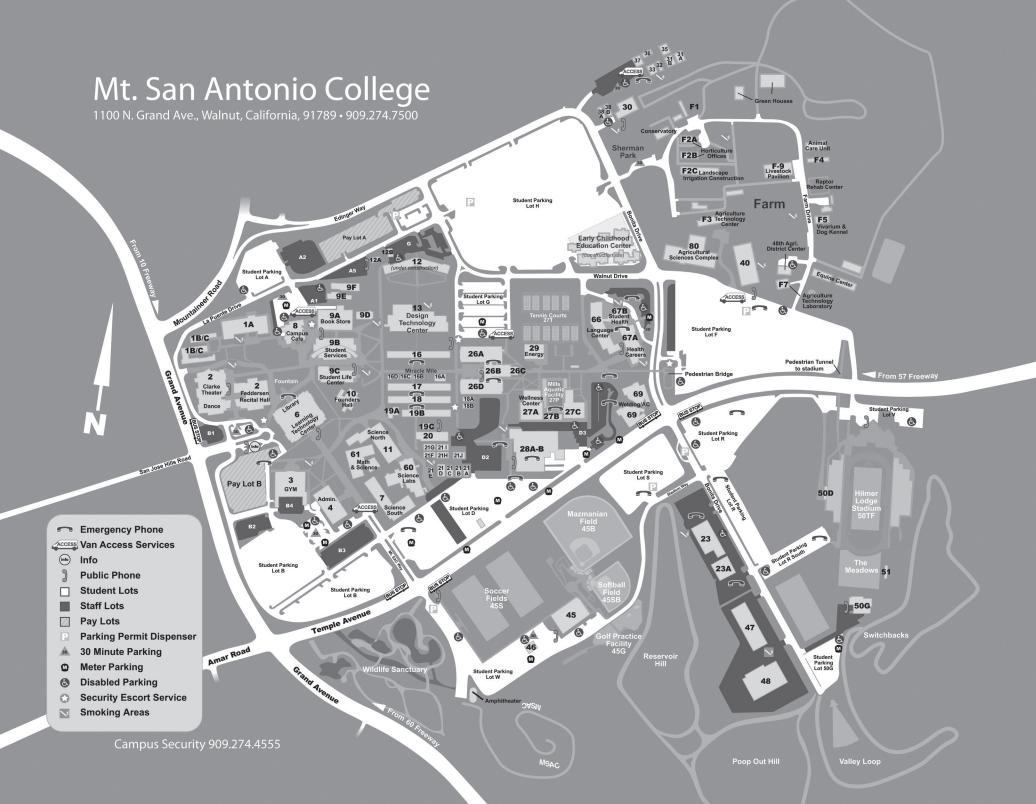
You can now Text-a-Tip when you witness crimes or any suspicious behavior on campus. Text it to:

909 **273**-9560

It's all *anonymous*—your message comes through, but your cell number and identity don't. Text-a-Tip enables Mt. SAC's Public Safety officers to reply to your text without knowing your identity!







MISSION

The mission of Mt. San Antonio College is to support students in achieving their educational goals in an environment of academic excellence.



1100 North Grand Avenue Walnut, CA 91789 www.mtsac.edu

