



SOLANO
COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE

2021 | 2022 CATALOG

solano.edu | 707-864-7000

2021-2022

General Catalog

This catalog encompasses Summer semester (June-August 2021);
Fall semester (August-December 2021); and Spring semester (January-May 2022).

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www.solano.edu

A public community college serving the Northern California communities of
Benicia, Dixon, Fairfield, Suisun, Travis Air Force Base,
Vacaville, Vallejo, and Winters

Solano Community College Fairfield Campus
4000 Suisun Valley Road, Fairfield, CA 94534-3197
(707) 864-7000

Vacaville Center
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(707) 863-7836

Vallejo Center
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(707) 642-8188

Travis Air Force Base Center
530 Hickam Ave., Bldg. 249, Travis Air Force Base, CA 94535
(707) 424-2431

About this Catalog

ABOUT THIS CATALOG - Students are expected to be familiar with the information in the Catalog, Schedule of Classes, and other publications relating to student attendance and conduct. Since this Catalog is prepared in advance of the period of time it covers, changes may occur in some programs and regulations. Courses as described in this Catalog are subject to change without notice, and some listed courses are not offered each year. The College reserves the right to adjust fees, conditions of enrollment, class offerings, and services as dictated by local and state mandates, the limits of institutional resources, and enrollment conditions. Consult the current Schedule of Classes for supplementary information and updated requirements.

OPEN ENROLLMENT POLICY - It is the policy of the District that, unless specifically exempted by state statute, every course section or individual course which is eligible for state apportionment shall be open for enrollment by any person who has been admitted to the College, meets the course prerequisites, and has paid required fees.

EQUAL OPPORTUNITY - The Solano County Community College District is subject to all laws governing equal opportunity including but not limited to Title VI and VII of the Civil Rights Act of 1964, Executive Order No. 11246 of 1965, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, California Fair Employment Practices of 1959, Americans With Disabilities Act of 1990, and the Age Discrimination and Employment Act of 1972. Solano Community College does not discriminate on the basis of sex, sexual orientation, race, color, religious creed, national origin, marital status, veteran status, medical condition, age (over 40), pregnancy, disability, and political affiliation in its education programs and employment practices. Inquiries concerning compliance or complaints may be addressed to Human Resources: (707) 864-7128.

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DEPARTMENTS OF STUDY

A.A.-T = Associate in Arts for Transfer;
A.S.-T = Associate in Science for Transfer;
A.A. = Associate in Arts;
A.S. = Associate in Science;
C of A = Certificate of Achievement;
J-D = Job-Direct Low Unit Certificate

Accounting

(School of Applied Technology and Business)

Programs

Accounting A.S./C of A.....	116
Account Clerk J-D.....	116

Courses

ACCT - Accounting.....	313
------------------------	-----

Advanced Manufacturing

(School of Applied Technology and Business)

Programs

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Mechatronics A.S/C of A.....	120

Courses

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MT - Maintenance Technology	416

Aeronautics

(School of Applied Technology and Business)

Programs

Airframe Maintenance Technician A.S./C of A.....	122
Powerplant Maintenance Technician A.S./C of A.....	122
Airframe & Powerplant Maintenance Technician A.S.	122
Airframe & Powerplant Maintenance Technician C of A.....	122

Courses

AERO - Aeronautics.....	314
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American Sign Language

(School of Liberal Arts)

Programs

ASL/English Interpreter Training A.A./C of A.....	124
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Courses

ASL - American Sign Language.....	327
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Anthropology

(School of Social and Behavioral Sciences)

Programs

Anthropology A.S.-T.....	127
--------------------------	-----

Courses

ANTH - Anthropology.....	316
--------------------------	-----

Art

(School of Liberal Arts)

Programs

Art History A.A.-T.....	130
Studio Arts A.A.-T.....	132
Graphic Design A.A.	133
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Courses

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Astronomy

(School of Mathematics and Science)

Programs

Astronomy A.S.	136
---------------------	-----

Courses

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------------------------	-----

Automotive

(School of Applied Technology and Business)

Programs

Automotive Technician A.S.	138
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Automotive Electrical and Body Systems C of A	140
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Courses

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------------------------------------	-----

Biology

(School of Mathematics and Science)

Programs

Biology A.S.-T.....	144
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Courses

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Biotechnology

(School of Mathematics and Science)

Programs

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Business

(School of Applied Technology and Business)

Programs

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Chemistry

(School of Mathematics and Science)

Programs

Chemistry A.S.	168
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Courses

CHEM - Chemistry.	351
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Child Development and Family Studies

(School of Social and Behavioral Sciences)

Programs

Early Childhood Education A.S.-T.	171
Early Childhood Education A.S./C of A.	172
Associate Teacher C of A.	173
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Courses

CDFS - Child Development and Family Studies.	348
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Communication Studies

(School of Liberal Arts)

Programs

Communication Studies A.A.-T.	177
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Courses

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------------------------------------	-----

Computer Information Science

(School of Applied Technology and Business)

Programs

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Computer Programming A.S./C of A.	180
Database Specialist J-D.	183
Digital and Print Publishing J-D.	183
Digital Media and Web Development J-D.	183
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Courses

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Computer Science

(School of Applied Technology and Business)

Programs

Computer Science A.S.-T.	185
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Courses

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Cosmetology

(School of Applied Technology and Business)

Programs

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Counseling

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Courses

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Criminal Justice

(School of Applied Technology and Business)

Programs

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(School of Health Sciences)

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Drafting

(School of Applied Technology and Business)

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Economics

(School of Applied Technology and Business)

Programs

Economics A.S.-T 203

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Education

(School of Social and Behavioral Sciences)

Programs

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Courses

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Emergency Medical Technician

(School of Health Sciences)

Programs

Emergency Medical Technician I J-D 208

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EMT - Emergency Medical Technician..... 378

Engineering

(School of Mathematics and Science)

Programs

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Courses

ENGR - Engineering..... 383

English

(School of Liberal Arts)

Programs

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English as a Second Language

(School of Liberal Arts)

Courses

ESL - English as a Second Language 384

Film and Television

(School of Liberal Arts)

Programs

Film and Television A.A. 217

Courses

CINA - Cinema..... 353

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Fire Technology

(School of Health Sciences)

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Fire Technology A.S./C of A..... 219

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Foreign Language

(School of Liberal Arts)

Programs

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French A.A. 225

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Geography

(School of Mathematics and Science)

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Geography A.S.-T 228

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Geology

(School of Mathematics and Science)

Courses

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(School of Social and Behavioral Sciences)

Programs

History A.A.-T 232

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Horticulture

(School of Mathematics and Science)

Programs

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Landscape Worker J-D.....	234
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Humanities

(School of Liberal Arts)

Courses

HUMN - Humanities.....	399
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Human Services

(School of Social and Behavioral Sciences)

Programs

Human Services A.A./C of A.....	237
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Courses

HS - Human Services.....	398
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Interdisciplinary Studies

Programs

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Journalism

(School of Liberal Arts)

Programs

Journalism A.A.-T/A.A.	243
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Courses

JOUR - Journalism	402
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Kinesiology

(School of Health Sciences)

Programs

Dance A.A.	196
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Mathematics

(School of Mathematics and Science)

Programs

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Courses

MATH - Mathematics	411
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Music

(School of Liberal Arts)

Programs

Music A.A.-T	258
Music - Instrumental A.A.	259
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Courses

MUSC - Music	418
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Nursing

(School of Health Sciences)

Programs

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Courses

NURS - Nursing.....	427
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Nutrition

(School of Health Sciences)

Programs

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Courses

NUTR - Nutrition	432
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Occupational Education

(School of Applied Technology and Business)

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Courses

OCED - Occupational Education.....	433
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Philosophy

(School of Social and Behavioral Sciences)

Courses

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Photography

(School of Liberal Arts)

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Physical Science

(School of Mathematics and Science)

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Physical Science A.S. 277

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(School of Mathematics and Science)

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Courses

PHYS - Physics 441

Political Science

(School of Social and Behavioral Sciences)

Programs

Political Science A.A.-T 284

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PLSC - Political Science..... 442

Psychology

(School of Social and Behavioral Sciences)

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(School of Applied Technology and Business)

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RE - Real Estate 446

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(School of Mathematics and Science)

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(School of Social and Behavioral Sciences)

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Ethnic Studies A.A..... 296

Courses

SJS - Social Justice Studies..... 447

Sociology

(School of Social and Behavioral Sciences)

Programs

Sociology A.A.-T/A.A.299, 300

Courses

SOC - Sociology 448

Theatre Arts

(School of Liberal Arts)

Programs

Theatre Arts A.A.-T/A.A.....304, 305

Theatre Arts Technical C of A..... 306

Courses

THEA - Theatre Arts 452

Tutoring

Courses

TUTR - Tutoring 458

Water and Wastewater Technology

(School of Mathematics and Science)

Programs

Water and Wastewater Technology A.S./C of A..... 309

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Welding

(School of Applied Technology and Business)

Programs

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Superintendent-President's Welcome!



Welcome to Solano Community College

On behalf of the faculty and staff at Solano Community College (SCC), I want to welcome you and congratulate you for choosing SCC. Our vision is clear: we want to be a recognized leader in educational excellence – transforming students' lives.

We have three campuses conveniently located near you: our Fairfield campus, the Vallejo Center, and the Vacaville Center. We also offer classes at Travis Air Force Base and online. Your decision to pursue a college education, whether it's a degree, a certificate, or transfer to a four-year college, is an important goal and our faculty and staff are here to help you succeed.

This catalog provides you with information you need to be successful at Solano Community College. You will find our academic and student policies; information on degrees, certificates, and requirements for transferring to a four-year college; and the names of our dedicated faculty and staff. In these pages you can also look up course descriptions and requirements for completing your degree or certificate as well as additional information on student services, including counseling, tutoring, and financial aid. Our entire College Catalog is also available online at www.solano.edu.

We are committed to providing a dynamic, supportive learning environment for the students and community we serve. Our centers and the main campus offer day, evening and Saturday classes, a variety of support services, and co-curricular activities (clubs, job fairs, etc.). Our Vallejo Center offers the opportunity to complete a Bachelor's Degree in Liberal Arts from Sonoma State University and our Vacaville Center offers a rigorous Bachelor's Degree in Biomanufacturing, the first four-year degree offered at our college.

It's time to experience all that SCC has to offer. Take advantage of our programs and services to advance life-long learning, to upgrade your job skills, or to complete your educational goal. If it has been a while since you enrolled with us, I encourage you to return and enroll in one or more classes, enjoy some of our musical or theatrical performances, or attend the games of our sports teams. We look forward to seeing you.



Celia Esposito-Noy, Ed.D. Superintendent-President
Solano Community College

Administration

Superintendent-President

Superintendent-President..... Celia Esposito-Noy, Ed.D.
Executive Coordinator..... Sandra Therrien

Governing Board

Vacaville..... Sarah E. Chapman, Ph.D. Fairfield/Vacaville/Travis Air Force Base Denis Honeychurch, J.D.
Vallejo Karimah Karah, J.D. Vacaville/Dixon/Winters Michael A. Martin
Benicia/Vallejo/Suisun..... Rosemary Thurston Fairfield/Green Valley/Cordelia..... Quinten R. Voyce
Vallejo A. Marie Young Board Secretary..... Celia Esposito-Noy, Ed.D.

Academic Affairs

Vice President, Academic Affairs David Williams, Ph.D.
Executive Coordinator..... Claire Gover
Dean, School of Health Sciences..... Sheila Hudson Ed.D.
Dean, School of Liberal Arts..... Neil Glines
Dean, School of Social and Behavioral Sciences Sandy Lamba
Dean, School of Mathematics and Science Joseph Ryan, Ph.D.
Dean, School of Applied Technology and Business, Lisa Neely
Interim Associate Dean, External Programs..... Peter "Tony" Zitko, Ed.D.

Finance and Administration

Vice President, Finance and Administration Vacant
Controller Shannon Beckham
Assistant Controller..... Virginia Bender
Assistant Facilities Director Myron Hord
Custodial Supervisor Eddie DelPilar
Lead Custodian Keith Willmschen
Director of Information Technology..... James "Kimo" Calilan
Lieutenant, Solano College Service Area, Solano County Sheriff's Office Craig Collins
Executive Bonds Manager..... Lucky Lofton
Project Manager Jason Yi

Human Resources

Manager..... Salvatore Abbate
Sr. HR Generalist Tracy Drake
HR Generalist Karen Mitchell
HR Generalist Amy Meacham
HR Generalist Tracy Vest

Student Services

Vice President, Student Services..... Shannon Cooper, Ph.D.
Executive Coordinator..... Chor Thao
Dean, Counseling Services Kristin Conner, Ed.D.
Dean, Academic Support Services Shirley Lewis, J.D.
Dean, Enrollment Services Alysa Borelli
Director, Financial Aid Vacant
Director, Athletics Erik Visser
Director, Early Learning Center Christie Speck

2021 - 2022 Academic Calendar

SUMMER 2021

JUNE 2021						
S	M	T	W	Th	F	S
		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			

AUGUST 2021						
S	M	T	W	Th	F	S
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				

JANUARY 2022						
S	M	T	W	Th	F	S
						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					

JULY 2021						
S	M	T	W	Th	F	S
				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

SEPTEMBER 2021						
S	M	T	W	Th	F	S
			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		

FEBRUARY 2022						
S	M	T	W	Th	F	S
		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					

AUGUST 2021						
S	M	T	W	Th	F	S
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				

OCTOBER 2021						
S	M	T	W	Th	F	S
					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						

MARCH 2022						
S	M	T	W	Th	F	S
		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 2021						
S	M	T	W	Th	F	S
	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				

APRIL 2022						
S	M	T	W	Th	F	S
					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

DECEMBER 2021						
S	M	T	W	Th	F	S
			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	

MAY 2022						
S	M	T	W	Th	F	S
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				

LEGEND

SUMMER 2021	
June 14 – August 6	
Six-week Session: June 14 – July 23	
Eight-week Session: June 14 – August 6	
Independence Day	July 5
FALL 2021	
August 16 – December 17	
Eight-week Session I: August 16 – October 11	
Eight-week Session II: October 13 – December 10	
Professional Development Day	August 12
Professional Development Day (Required)	August 13
Labor Day	September 4 – 6
Professional Development Day	October 12
Veterans Day	November 11
Thanksgiving Day	November 25 – 28
Finals Week	December 11 – 17
SPRING 2022	
January 18 – May 26	
Eight-week Session I: January 18 – March 15	
Eight-week Session II: March 18 – May 19	
Professional Development Day	January 13
Professional Development Day (Required)	January 14
Martin Luther King, Jr. Day	January 17
Lincoln Day	February 18 – 20
Washington Day	February 21
Professional Development Day	March 17
Spring Break	April 11 – 17
Finals Week	May 20 – 26
Memorial Day	May 30
Commencement	 May 26, 2022
No Classes	
Holidays (campus closed)	

FLEX DAYS

Fall 2020	3
Spring 2021	3
Total	6

NUMBER OF INSTRUCTIONAL DAYS (M-F)

	M	T	W	Th	F	Total
Fall 2021	16	16	16	15	16	79
Spring 2022	15	17	17	16	15	80

FINAL EXAMINATION DAYS (M-F)

	M	T	W	Th	F	Total
Fall 2021	1	1	1	1	1	5
Spring 2022	1	1	1	1	1	5

WEEKEND CLASS DAYS INCLUDING FINALS

	Sat	Sun
Fall 2021	15	15
Spring 2022	16	16

* The Academic Calendar applies to 175 Instructional Workdays. The Classified Calendar is a separate document, addressing Classified Workdays.

Class Locations and Campus Maps

On- and Off-campus classes: Classes and Counseling services are offered at the Main Campus and the three off-campus centers. Classes are also offered at other locations throughout Solano County.

Main Campus

4000 Suisun Valley Road, Fairfield

Vacaville Center

2001 N. Village Parkway, Vacaville

Vallejo Center

545 Columbus Parkway, Vallejo

Travis Air Force Base (TAFB)

Travis University Center

Building 249 at 530 Hickman, Travis AFB

Visit www.solano.edu/tafb for TAFB security requirements prior to registering for classes. Students must be enrolled in classes at TAFB in order to receive SCC services on Base.

Other Locations

Vallejo Automotive Technology

1687 North Ascot Parkway, Vallejo

Nut Tree Airport (Aeronautics)

275 County Airport Road, Vacaville

Various high school locations throughout the region

California State Prison Solano (CSPS)

California Correctional Medical Facility (CMF), Vacaville
(classes at CSPS and CMF are not open to the general public)

ONLINE codes

ONLN

OVJO

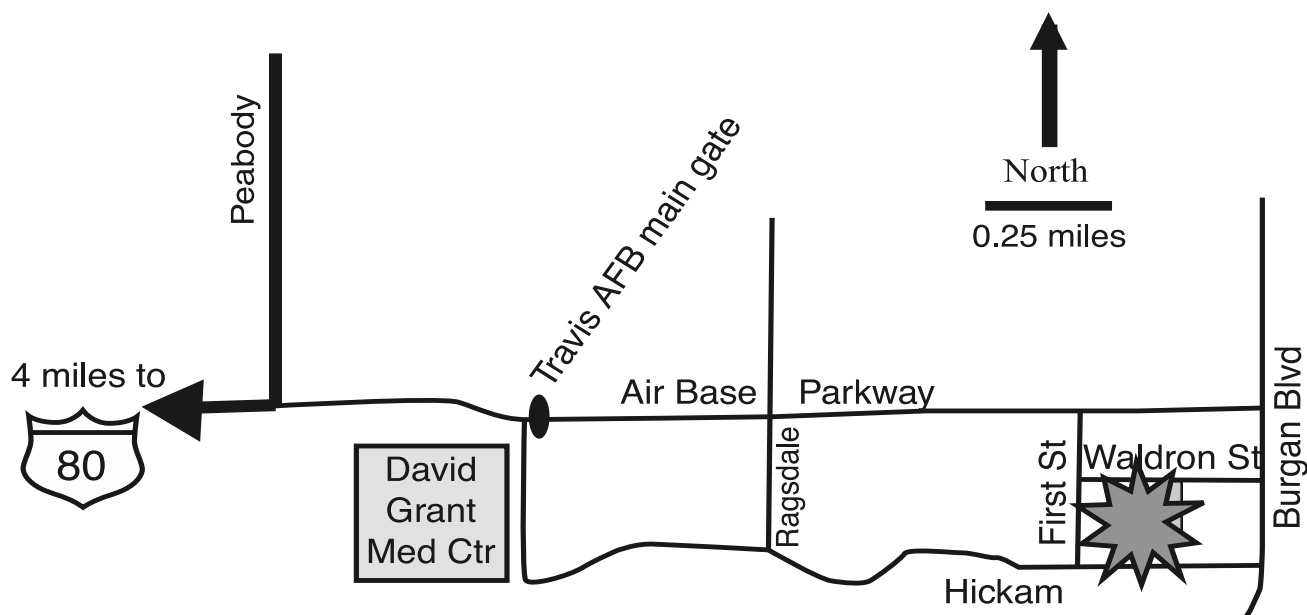
OVV

For specific locations and times, registration, and other information, refer to the Schedule of Classes at the SCC website www.solano.edu or contact the Admissions and Records Office at (707) 864-7171 or email admissions@solano.edu.

Parking permits are required at the Main Campus and the three off-campus centers. Permits must be placed as indicated on the permit directions. Parking fees are subject to change. An appeal process is available to contest parking citations.

For more information regarding parking, visit www.solano.edu/police or email at parkingservices@solano.edu or call (707) 864-7131.

Campus Maps - Travis Air Force Base



The Travis AFB University Center is located in Building 249 at 530 Hickam Avenue on Travis Air Force Base. To get to the Center, take the Air Base Parkway exit off of I-80 and follow it until it ends at the Travis Main Gate. Instructions for obtaining a pass are located below. After obtaining a pass, proceed through the Main Gate, staying on the same street. Turn right onto First Avenue, then left on Waldron Street. About half way down the length of the street, turn right into the parking lot. Drive to the back of the lot; the University Center is on the right. Parking is available in any vacant space.

TRAVIS AIR FORCE BASE GATE PROCEDURE:

All non-military students must be registered in a class that meets at TAFB to receive a pass to enter the base. Students registered for TAFB classes will be able to obtain a base pass the day class begins at the Visitor Control Center, 615 Airbase Parkway, located on the left-hand side before the main gates. Be advised it could take at least one hour or more to obtain a base pass. All registered students are required to present all of the documents listed below:

1. A Real ID. If you do not have a REAL ID you may use your driver's license. If your driver's license states "Federal Limitations" you will be required to bring your U.S. Passport and Social Security Card.
2. Valid car registration (this must be the vehicle you will drive to class each week)
3. Valid proof of vehicle insurance.
4. Proof of enrollment in a class at TAFB (a registration printout showing class(es)).
5. TAFB personnel may require other forms of identification.

IMPORTANT: Students must have their own transportation. Anyone in an automobile without military ID, or an authorized semester pass, will not be admitted on TAFB.

To add a class located at the TAFB center

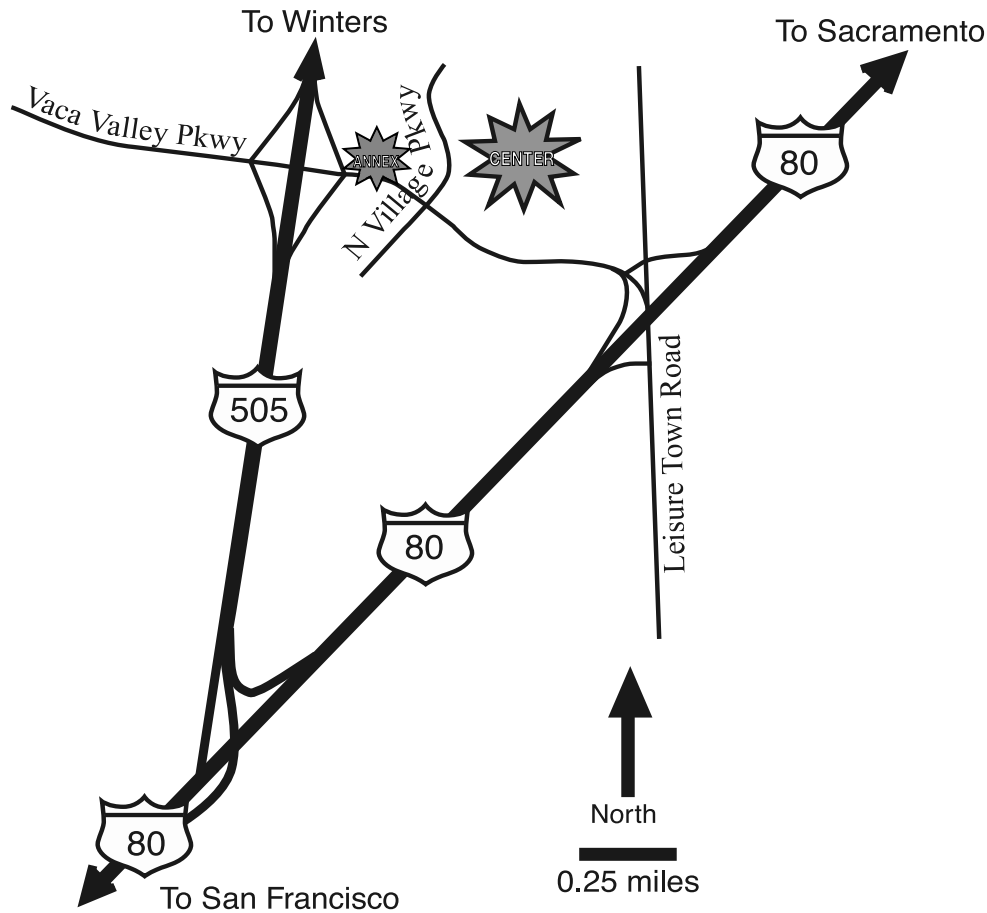
- Contact the instructor to obtain an "Add [Authorization] Code"
- Enroll in the course prior to being admitted to the Base. Contact the SCC TAFB office to inform them of enrollment.

Center Hours:

Monday-Thursday	9:00 am - 6:00 pm
Friday	Closed

For additional information please go to: www.solano.edu/tafb
or call the Travis Air Force Base University Center at (707) 863-7878

Campus Maps - Vacaville Center



The Solano Community College Vacaville Center is located north of the City of Vacaville at 2001 North Village Parkway. Turn onto North Village Parkway (formerly known as 1990 Akerly Drive), just off of Vaca Valley Parkway.

DIRECTIONS FROM FAIRFIELD/VACAVILLE:

Take I-80 East to I-505 and drive about 1/2 mile to the Vaca Valley Parkway exit. Turn right at the exit ramp stoplight on to Vaca Valley Parkway and go one block to North Village Parkway. Turn left at the stoplight on to North Village Parkway; the parking lot entrance to the Center is visible on the right side of the street within a distance of 1/2 block.

DIRECTIONS FROM DAVIS/DIXON:

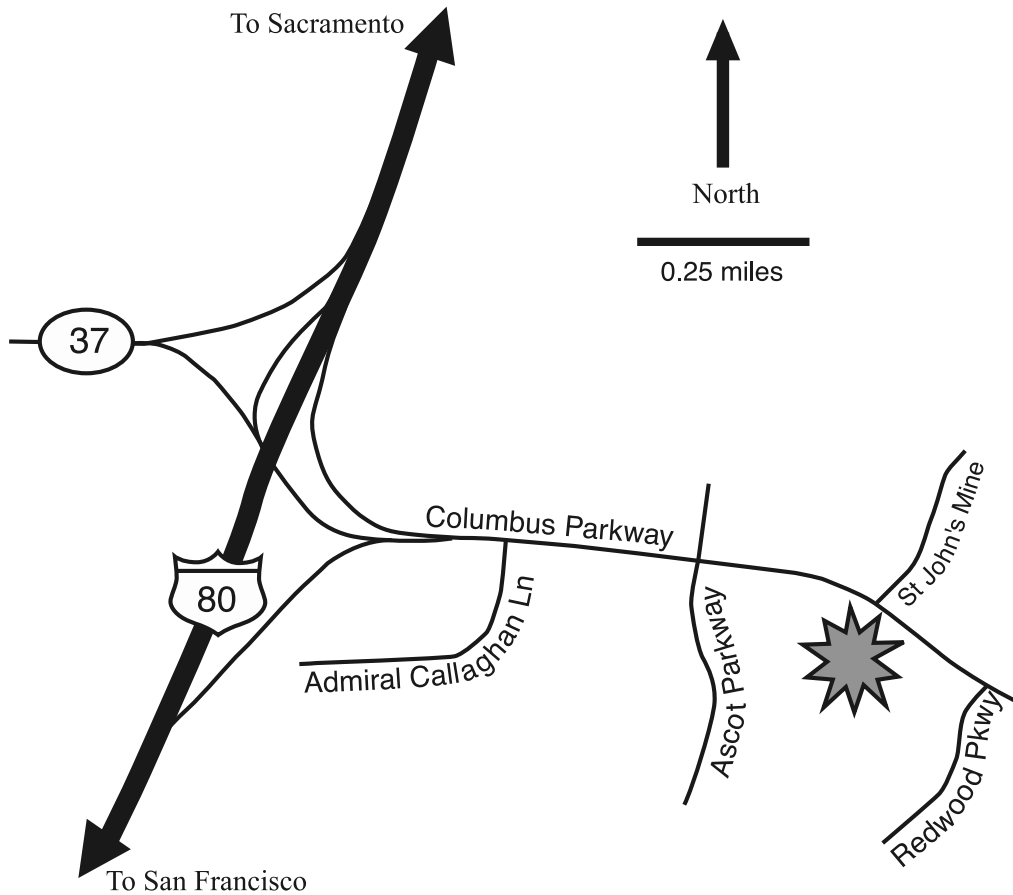
Take I-80 West to the Leisure Town Road exit. Turn right onto Vaca Valley Parkway. Continue straight for approximately 1/2 mile to North Village Parkway and turn right at the stoplight. Turn right into the parking lot entrance to the Center.

PARKING:

Parking passes are \$32 per vehicle for Fall/Spring Semesters and \$16 for Summer they may be purchased online through your MySolano account. The permit is valid for the Fairfield campus, the Vallejo and Vacaville Centers, and the Vallejo AutoTech Center. Daily parking permits are available for \$2 from the machines located in the parking lots and are valid for all campus locations.

For additional information please go to: www.solano.edu/vacaville
or call the Vacaville Center at (707) 863-7836

Campus Maps - Vallejo Center



The Solano Community College Vallejo Center is located at 545 Columbus Parkway.

DIRECTIONS FROM FAIRFIELD/VACAVILLE/DAVIS/DIXON

Take I-80 toward San Francisco and exit at Columbus Parkway. The Solano Community College Vallejo Center is located approximately 1 & 1/2 miles on the right.

DIRECTIONS FROM PLEASANT HILL/CONCORD/WALNUT CREEK

Take 680 North to 780 West. From 780 West take I-80 East toward Sacramento. Exit at Columbus Parkway. The Solano Community College Vallejo Center is located approximately 1 & 1/2 miles on your right.

PARKING:

Parking passes are \$32 per vehicle for Fall/Spring Semesters and \$16 for Summer they may be purchased online through your MySolano account. The permit is valid for the Fairfield campus, the Vallejo and Vacaville Centers, and the Vallejo AutoTech Center. Daily parking permits are available for \$2 from the machines located in the parking lots and are valid for all campus locations.

For additional information or inquiries please go to www.solano.edu/vallejo or call the Vallejo Center at (707) 642-8188.

Accreditation, Governance, and Memberships

ACCREDITATION AND APPROVALS

Solano Community College is accredited by the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges, 10 Commercial Blvd., Suite 204, Novato, California 94949, (415) 506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. Additional information about accreditation, including the filing of complaints against member institutions, can be found at: www.accjc.org.

APPROVALS

Nursing - California State Board of Registered Nursing

Certified Nursing Assistant - California Department of Public Health

Cosmetology - California State Board of Barbering and Cosmetology

Veterans Training - U.S. Department of Veterans Services

Active-Duty Training - Department of Defense

Foreign Student Education - U.S. Immigration Service (USCIS)

CERTIFICATION

Aeronautics Program - Federal Aviation Administration (FAA) in accordance with CFR14, FAR Part 147

GOVERNANCE AND FUNDING

Solano Community College is a public community college funded by a combination of state and local tax dollars. The seven-member Board of Trustees of the Solano Community College District governs the College. Board members are elected at large from the representative areas of the district and serve four-year terms. Solano Community College is under the direction of its Superintendent-President, who, with faculty and staff, administers the College and oversees the implementation of Board policies.

The Solano Community College Governing Board meets the first and third Wednesdays of each month at 6:30 p.m. For room locations of the meetings, visit www.solano.edu/governing_board for the most current meeting information. All meetings, with the exception of closed sessions, are open to public participation. Agendas and meeting minutes are available from the Superintendent-President's office and on the Solano Community College District website www.solano.edu.

EDUCATIONAL FOUNDATION

The Solano Community College Educational Foundation was established in 1985 by District residents to support the continuation of a quality college for Solano County. As an independent, non-profit organization, the Foundation is designed to solicit, receive, and expend funds to support College programs, activities, and facilities, and assist the College in meeting essential needs that reach beyond the limits of state funding. Through fund raising efforts such as the Alumni Development Campaign, Corporate Gift Giving, Endowments, Major Campaigns and Charitable Remainder Trusts, the Foundation has provided funds for the library, nursing and pre-engineering programs, a Student Placement Center, and for campus signs. Governed by a board of community directors, the Foundation provides an avenue for individuals and businesses to make tax-deductible donations to support the work of Solano Community College. Call (707) 864-7177 or visit the website foundation.solano.edu for more information on donating to the Foundation.

MEMBERSHIPS

- American Association of Community Colleges (AACC)
- American Library Association
- Chambers of Commerce of Benicia, Fairfield, Vacaville, and Vallejo
- Community College League of California (CCLC)
- Directors of Educational Technology/California Higher Education (DET/CHE)
- EDUCAUSE
- Learning Resources Association of California Community Colleges (LRACCC)
- National Association of Student Financial Aid Administrators (NASFAA)
- National Association of Student Personnel Administrators (NASPA)
- National Association of Veterans Program Administrators (NAVPA)
- Research & Planning Group of CA Community Colleges
- Solano County Economic Development Corporation (Solano EDC)
- Western Association of Veteran Education Specialists (WAVES)

Solano Community College

Solano Community College is a tradition in Solano County. Established in 1945 as Vallejo Junior College, Solano was part of the Vallejo Unified School District until 1967 when the College became a countywide institution. The 192-acre campus, centrally located just off Interstate 80, was completed in 1971 and opened with 5,000 students. Since then, facilities, programs, staff and services have expanded to meet the growing needs of a growing county.

Solano Community College is part of California's public community college system of 116 campuses in 72 districts across the state. The College's service area encompasses the communities of Benicia, Dixon, Fairfield, Suisun, Vacaville, Vallejo and Travis Air Force Base as well as Winters in Yolo County. Many graduates of the area's 16 public high schools and three private schools take advantage of the educational opportunities offered by Solano Community College.

Solano's classes are held during two semesters each year (spring and fall) and summer session. Flexible scheduling, designed for students' convenience, includes day, evening, and Saturday classes, held both on and off campus and online. Short-term classes, open-entry/open-exit formats, and special interest workshops and seminars add to this scheduling flexibility.

With the current student population of over 8,000 taking classes during both day and evening, the Solano Community College campus is alive at all hours offering academic study and occupational training to all area residents.

Mission and Vision

MISSION

Solano Community College's mission is to educate a culturally and academically diverse student population drawn from our local communities and beyond. We are committed to student learning and achievement and to helping our students achieve their educational, professional, and personal goals. Solano transforms students' lives with undergraduate education, transfer courses, career-and-technical education, certificate programs, workforce development and training, basic-skills education, and lifelong-learning opportunities.

The mission shall be evaluated and revised on a regular basis.

VISION

Solano Community College will be a recognized leader in educational excellence— transforming students' lives.

Core Values and Code of Ethics

CORE VALUES

Integrity

Firm adherence to a code of ethical values in thought and behavior

Critical Thinking

The use of intellectually disciplined, logically sound processes involving data-driven decision making

Mutual Respect

Valuing the intrinsic worth of each person in an atmosphere of collegiality

Collaboration

Working together across areas of responsibility or interest to achieve common goals and objectives

Innovation

The search for and use of effective processes or procedures

Accountability

Individual and collective responsibility for achieving the highest level of performance

Student Well-being

Considering and addressing the impact on students of any and all actions or inactions

CODE OF ETHICS - POLICY 4100

The Code of Ethics serves to articulate values that the college embodies and promotes:

- Act with uncompromising integrity, dignity, respect, and fairness, and promote a spirit of collegiality campus-wide.
- Recognize and work to meet the College's responsibility to all citizens of the District to provide an educational program of the highest quality.
- Maintain and support transparency, communication, and equity in governance of the College, and in relationship to the community.
- Commit to the advancement and protection of academic freedom for all members of the institution.

Strategic Plan Goals

STRATEGIC PLAN GOALS

The Solano Community College Goals and Objectives Have a Foundation in Equity and Integrity in Action

Goal 1: Honor and empower students by helping them succeed in achieving their educational and career goals

Objective 1.1: Create clear and accessible Guided Pathways for all degrees and certificates to help students' education planning and attainment.

Objective 1.2: Ensure access to student support programs and services without regard to circumstances or identity.

Objective 1.3: Foster a student's sense of belonging and community within their discipline and within the College.

Goal 2. Honor and empower students to transfer in a timely fashion

Objective 2.1: Empower students to explore, select and complete a transfer pathway.

Objective 2.2: Increase outreach and resources for transfer students.

Objective 2.3: Empower students to complete college level math and English in their first year by offering guided self-placement and support services.

Goal 3: Honor and empower students to attain their education goals in a timely fashion while embracing the process of learning

Objective 3.1: Orient and direct students to programs of interest based on their career goals.

Objective 3.2: Increase the number of applicable units completed in the first year.

Goal 4. Honor and empower students to gain meaningful employment/careers in their chosen field fo study

Objective 4.1: Increase the number of students participating in internships and/or work experience opportunities.

Objective 4.2: Connect SCC programs to local industries and businesses to increase employment opportunities.

Goal 5: Honor and empower student equity and success by eliminating equity gaps with a focus on disproportionately impacted populations

Objective 5.1: Reduce the equity gaps for completion of a degree or certificate for traditionally underrepresented student groups.

Objective 5.2: Reduce the equity gaps for traditionally underrepresented student groups transferring to UC or CSU.

Objective 5.3: Reduce the equity gaps for traditionally underrepresented student groups so they can attain their education goals in a timely fashion.

Objective 5.4: Reduce the equity gaps for traditionally underrepresented student groups acquiring employment in their field of study.

Strategic Plan Goals

Goal 6: Strengthen ties to the community and local school districts to ensure access to college for all students.

Objective 6.1: Strengthen connections to local area high schools through articulation agreements and dual enrollment, where appropriate, as well as regular high school outreach.

Objective 6.2: Strengthen ties to community groups that serve or represent DI populations (e.g. adult schools, churches, mosques, Pride organizations).

Goal 7: Honor and empower the college community by maintaining adequate and sustainable financial resources to create an environment that supports teaching and learning.

Objective 7.1: Maintain reserves that equal or exceed the state average for California community colleges.

Objective 7.2: Engage all constituencies of the college community in financial planning to ensure transparency.

Objective 7.3: Implement and expand sustainability practices across facilities and educational programs.

Objective 7.4: Prioritize maintenance on existing buildings to ensure a safe and pleasing learning environment.

Goal 8: Maintain a campus culture that honors and empowers teaching and learning.

Objective 8.1: Proactively recruit and train diverse candidates for faculty and staff positions.

Objective 8.2: Develop new faculty/staff orientation and training programs.

Objective 8.3: Develop safe space training and support safe spaces on campus.

Institutional Learning Outcomes (ILOs)

Given the diversity of educational goals of our students and the length of their study, they will be proficient in the following areas to the extent required of their courses and/or program of study. These outcomes are neither course nor program specific but are meant to be applicable to all students.

Communication Competency

Students will effectively communicate ideas and information through writing, speaking, performance, art, or other modes of expression

Information Competency

Students will be conversant in the vocabulary and concepts of the discipline and be able to use discipline-appropriate tools to locate and retrieve relevant information effectively, upholding academic and ethical integrity

Quantitative Competency

Students will solve problems and interpret findings using appropriate mathematical, statistical, and scientific techniques

Technical Competency

Students will increase knowledge of social, economic, and environmental trends from local to global perspectives

Analytic Inquiry

Students will engage in critical thinking to discover and apply information to the analysis of problems

Ethics

Students will identify ethical issues and apply ethical principles to discipline specific problems

Global Awareness

Students will demonstrate an understanding of how diverse cultural beliefs and practices impact behavior and forms of expression. They will be able to articulate how social, economic, environmental, and political events impact society

Personal Growth

Students will manage personal health and well-being, including engaging in self-reflection to facilitate personal insight

Professional Development

Students will demonstrate effective workplace behaviors such as appropriate communication, professionalism, decision-making, and time management

General Education Outcomes (GELOs)

Upon completion of Solano Community College's General Education program, a student will demonstrate competency in the following areas:

Communication and Critical Thinking

SCC-GE, Area D IGETC, Area 1 and 6 CSU-GE, Area A

- Students will develop their writing, listening and speaking skills to communicate effectively
- Students will engage in critical thinking to analyze problems and consider potential solutions

Scientific Inquiry and Quantitative Reasoning

SCC-GE, Area A IGETC, Area 2 and 5 CSU-GE, Area B

- Students will engage in scientific inquiry to discover and apply information to the analysis of data and/or scientific phenomena
- Students will solve problems using appropriate mathematical and/or statistical techniques

Arts and Humanities

SCC-GE, Area C IGETC, Area 3 CSU-GE, Area C

- Students will exhibit an understanding of the ways in which people in diverse cultures and eras have produced creative works
- Students will analyze significant events and/or works from the past, including cultural and regional influences
- Students will create works through diverse forms of expression

Social Sciences

SCC-GE, Area B IGETC, Area 4 CSU-GE, Area D

- Students will analyze human behavior in a variety of contexts
- Students will investigate the social, political, economic, historical, geographical, and/or psychological forces that impact individuals, groups, and society

Lifelong Learning and Self Development

SCC-GE, Local District Requirement CSU-GE, Area E

- Students will demonstrate knowledge of the physical, psychological, cognitive, and/or developmental practices that foster personal well-being and human development

Cross-Cultural Studies

SCC-GE, Area E

- Students will analyze cross-cultural beliefs, practices, and forms of expression to gain a rich understanding of self and others

Getting Started

Student Success and Support Program

Admission to College

Assessment/Orientation/Guided Self-Placement

Registration

Debts and Fees

Transportation
(Parking and Regional Transit)

Financial Aid and Eligibility

Getting Started

STUDENT SUCCESS AND SUPPORT PROGRAM (SSSP)

SSSP is a process that brings students and their college into an agreement about the choices and processes needed for the student to realize their educational objectives. The agreement acknowledges the responsibilities and rights of both parties. As part of its on-going SSSP, Solano Community College provides a full range of services, including:

- Admission to the College
- Orientation to the College
- Counseling and advising
- Registration for courses
- Follow-up of student progress
- Various support services

Each student has the following responsibilities regarding SSSP services:

- Express a general educational goal at the time of admission
- Meet with a counselor to discuss academic choices and to develop an educational plan
- Identify a specific educational goal upon completion of 15 semester units of degree- applicable, credit coursework
- Attend classes and complete assigned course work
- Maintain progress toward the specified educational goal

The College has the following responsibilities:

- Use multiple sources of information as the basis of assessment for course placement.
- Provide special accommodations for students with learning or physical disabilities
- Provide a mechanism for changing a specified educational goal
- Inform students of their responsibilities and rights regarding matriculation services
- Upon request, provide students with written District procedures concerning challenges, complaints or appeals of SSSP services

The student has the right, and is strongly encouraged, to receive all SSSP services provided by the College. The student also has the right to refuse any or all of these services.

Exemptions

The following students may be exempt from orientation, and education planning:

- Students who have completed an Associate Degree or higher
- Students who seek to enroll only in non-credit courses
- Students indicating an educational goal of:
 - Job Skills – to maintain current job
 - Personal Interest – not for employment
 - Complete credits for High School
 - Maintain a Certificate or License (for example, in Nursing, Real Estate)

ADMISSION TO THE COLLEGE

Admission to Solano Community College is open to anyone who is a high school graduate, has a high school equivalency certificate, or is 18 years of age or older and shows evidence of being able to benefit from instruction. All inquiries concerning application, admission and registration should be sent to Solano Community College Admissions and Records, 4000 Suisun Valley Road, Fairfield, CA 94534, (707) 864-7171, www.solano.edu/ar/.

APPLICATION FOR ADMISSION

Applications for admission with detailed instructions are available on the college website at www.solano.edu click "APPLY NOW!"

An application must be submitted if a student is:

- A New Student entering Solano Community College for the first time
- A Returning (Former) Student who did not attend Solano during the prior semester
- An International Student www.solano.edu/international
- A Student In Grades K-12 enrolled in a public or private school seeking special admission www.solano.edu/ar/k12admission.php

Getting Started

SPECIAL ADMISSION (K-12)

Solano Community College may permit the admission of K-12 students who, in the opinion of the Superintendent-President, or designee, can benefit from instruction. Approval of the student's principal, and parent or guardian is required. The intent of this program is to provide educational enrichment opportunities for a limited number of eligible students who fulfill special admission standards.

The College reserves the right to exclude or limit enrollment in courses or programs where health, safety, instructional methodology, facility constraints, or legal requirements are deemed inappropriate for special admission students.

Special admission students shall conform to the College's academic rules and regulations and the code of conduct expected of all college students.

Students under grade 9 must attend an interview with a College official, along with the parent or guardian.

Email admissions@solano.edu for additional information, or visit www.solano.edu/ar/k12admission.php.

INTERNATIONAL STUDENT ADMISSION

Email international@solano.edu
solano.edu/international

Solano Community College admits international students each semester. Applications are accepted year round. International students must meet the following admission requirements:

1. File official transcripts from all secondary schools, universities or professional schools. Transcripts must be accompanied by an official English translation.
2. Submit scores from the Test of English as a Foreign Language (TOEFL). A minimum score of 500 is required for admission on the paper-based examination. A score of 61 on the internet-based test is required for admission (subject to change) and a score of 7.0 is required from the IELTS.
3. File a current declaration and certification of finances.
4. File a current certificate of health, including a tuberculin test. A copy of the health verification certificate submitted to immigration is acceptable provided it is not more than one year old.
5. Provide evidence of health and accident insurance protection.
6. Provide a local street address, not a post office box number, and a social security number, if applicable.

Students with an F-1 Visa must meet with the International Student Academic Counselor each semester for approval of their academic programs. Each student must maintain enrollment in at least 12 semester units of academic work each semester.

An email address is provided to all students and is the primary means of communication used by the college. Students should activate and check their email regularly.

Non-resident tuition is \$304.00 per unit plus \$11.00 per unit nonresidential capital outlay fee. All fees are subject to change by the State legislature.

RESIDENCY

The California residency requirement has two parts, Act and Intent. To claim residency a student must prove having physically lived in and shown intent to remain in California by:

- paying California income taxes
- possessing a valid California driver's license
- registering and voting in the state
- owning and registering a car in California
- the absence of these ties with another state

The payment of California state income taxes is an important act of intent. Concurrent with these acts of intent, physical presence in the state for one year and one day prior to the first day of classes is needed to establish California residency. Because the residency requirement is complicated, students with questions should contact the Admissions and Records office.

TRANSCRIPTS FOR ADMISSION

The following students are required to submit official transcripts from all regionally accredited institutions:

- Applicants for the Nursing Program
- Veterans
- International students
- Students receiving financial assistance
- Recipients of California State Scholarships must file high school transcripts showing the eight semesters
- Participants in intercollegiate athletics

Students planning to complete an A.A./A.S. degree or certificate should submit transcripts from other institutions if the units apply toward the degree or certificate requirements. The applicant is responsible for requesting the transcripts be mailed directly to the Admissions and Records office.

Getting Started

ASSESSMENT/ ORIENTATION PROGRAM

All new, non-exempt students should complete the assessment/orientation process prior to registering for classes. Guided self-placement, orientation and counseling are part of this process. See exemption criteria under SSSP.

GUIDED SELF-PLACEMENT

English/Math Placement: After completing the application in CCCApply, students who provided information regarding the highest level English and math completed in high school will receive an email to their Solano email address with information about suggested college-level math and English courses to take.

AB 705 requires that colleges maximize the probability that students will enter and complete transfer-level coursework in English and quantitative reasoning/mathematics within their first year of enrollment.

Math Placement

Students entering Solano Community College are minimally eligible to take the following transfer or one level-below-transfer math courses, regardless of prior math experience (consult with a counselor for specific guidance based on career and educational goal):

Transfer Level:

- MATH 011 - Statistics (with or without a co-requisite lab based on High School GPA)
- MATH 012 - Mathematical Ideas (with or without a corequisite lab based on High School GPA)

Below Transfer:

- MATH 104 - Intermediate Algebra
- MATH 112 - Intermediate Algebra for Liberal Arts

English Placement

Students entering Solano Community College are minimally eligible to take the following transfer-level English course, with or without co-requisite lab based on High School GPA and Jr/Sr English grade:

- ENGL 001 - College Composition
- ENGL 001 with ENGL 310D - College Composition with Advanced English Skills Lab

Procedures: To gain the most from these services, students should plan on completing the matriculation process in the following sequence:

1. Visit www.solano.edu/ar/apply to complete an "Application for Admission".
2. Complete an online orientation session at www.solano.edu/vip/ or complete an in-person orientation.
3. Meet with a counselor to complete an education plan.
4. Register for classes.

Additional information may be obtained from the Counseling Center or at the Admissions and Records office.

Students who have completed testing or coursework in English at another college or who have had equivalent educational experiences in high school may be eligible for an exemption in assessment or orientation. Contact a counselor for detailed information.

Getting Started

BSTEM

Solano Community College

ENGL and MATH Multiple Measures Placement Recommendation (AB705 Compliance)

ENGL Placement Recommendation by Multiple Measures		
Highest HS ENGL	GPA <2.60	GPA ≥2.60
Jr./Sr. ENGL	ENGL310D and ENGL001	ENGL001
		Other Clearance: [Jr./Sr. ENGL with B or better] OR [AP ENGL with C+ or better]

Notes: 1. ENGL360 is an option open for all students who do not feel prepared to take ENGL310D after engaging in Guided Self Placement.

MATH Placement Recommendation by Multiple Measures For BSTEM Path			
Highest HS MATH	GPA < 2.6	2.6 ≤ GPA < 3.4	GPA ≥ 3.4
Pre-Algebra	MATH 104 support strongly recommended		
Algebra 1, Integrated Math 1 or 2, Geometry			
Algebra 2, Integrated Math 3, Trigonometry	MATH 051, 002, 030 support strongly recommended	MATH 051, 002, 030 support recommended	MATH 051, 002, 030
Statistics	MATH 020, 030 support recommended	MATH 020, 030	
Integrated Math 4, Pre-Calculus, Math Analysis			
Calculus or higher (Failed Course)	MATH 020, 030, 021, 031 support recommended	MATH 021, 031	
Calculus or higher (Passed Course)			

Notes: 1. It is recommended to take MATH051 first, however, MATH002 and MATH051 can also be taken concurrently.

2. Support for all above courses is provided in our Math Activities Center by enrolling in the no-cost course Math 505.

Getting Started

SLAM

Solano Community College

ENGL and MATH Multiple Measures Placement Recommendation (AB705 Compliance)

ENGL Placement Recommendation by Multiple Measures		
Highest HS ENGL	GPA <2.60	GPA ≥ 2.60
Jr./Sr. ENGL	ENGL310D and ENGL001	ENGL001
		Other Clearance: [Jr./Sr. ENGL with B or better] OR [AP ENGL with C+ or better]
Notes: 1. ENGL360 is an option open for all students who do not feel prepared to take ENGL310D after engaging in Guided Self Placement.		

MATH Placement Recommendation by Multiple Measures For Non-STEM/SLAM Path			
Highest HS MATH	GPA < 2.30	2.3 ≤ GPA < 3.0	GPA ≥ 3.0
Pre-Algebra	MATH 012/312 or MATH 011/311 strongly recommended		MATH 012/312 or MATH 011/311 recommended
Algebra 1, Integrated Math 1 or 2, Geometry	MATH 012/312 or MATH 011/311 strongly recommended	MATH 012/312 or MATH 011/311 recommended	MATH 011, 012 MATH 311/312 support available
Algebra 2, Integrated Math 3, Trigonometry		MATH 012/312 or MATH 011/311 recommended or MATH 055	MATH 011, 012, 055 MATH 311/312 support available
Statistics			
Integrated Math 4, Pre-Calculus, Math Analysis	MATH 012/312 or MATH 011/311 recommended or MATH 055	MATH 011, 012, 055 MATH 311/312 support available	
Calculus or higher			

PRIORITY REGISTRATION

Set by Title 5 section 58108 Registration and Enrollment Procedures

58108(a-g)

Districts shall adopt policies and procedures for registration and standards for enrollment in any course(s) that are consistent with these and other sections of Title 5 and uniformly administered by appropriately authorized employees of the district.

The intent being to provide priority registration for students who enroll in a community college for the purpose of degree or certificate attainment, transfer to a four-year college or university, or career advancement.

The priority registration shall be provided to students in the following order and will be listed on the SCC Website approximately 2 weeks prior to the start of the registration period:

1. Veterans, homeless youth, foster or former foster youth, students eligible and receiving services through DSP, EOPS, CalWORKs
2. Athletes, ASSC
3. Continuing Students
4. New Students who have completed Orientation and Ed Plan
5. Returning Students
6. Transfer Students
7. New students who have NOT completed Orientation, Ed Plan
8. Concurrently enrolled K-12 students
9. Open Registration

Getting Started

58108(h 1-5)

Registration priority specified in subdivision (c) of this section shall be lost at the first registration opportunity after a student:

1. is placed on academic or progress probation or any combination thereof as defined in section 55031 for two consecutive terms; or
2. has earned one hundred (100) or more degree-applicable semester or quarter equivalent units at the district.
 - For purposes of this section a unit is earned when a student receives a grade of A, B, C, D or P as defined in section 55023.
 - The 100-unit limit does not include units for non-degree applicable English as a Second Language or basic skills courses as defined in section 55000(j) or special classes as defined in section 55000.
 - Districts may set the unit limit lower than 100 units and may consider units from other higher education institutions. Solano Community College has set the limit at 90 units excluding transfer units from other higher education institutions.
 - Districts may adopt policies to exempt from the 100-unit limit categories of students, including but not limited to, those enrolled in high unit majors or programs.
 - Districts may exempt from the 100-unit limit units earned through credit by examination, advanced placement, International Baccalaureate, or other similar programs.

STUDENT CLASSIFICATION

Students are classified in terms of the number of units they have completed and the units in which they are currently enrolled.

Freshman: A college student who has earned from 0.0 to 29.5 semester units of college credit.

Sophomore: A college student who has earned from 30.0 to 60.0 semester units of college credit.

Full-time: A student enrolled in 12.0 or more semester units.

Part-time: A student enrolled in 11.5 or fewer semester units.

Post Associate Degree: A student who has been awarded an A.A., A.S. or higher degree.

REGISTRATION PROCEDURES

Preparation - Students should acquaint themselves with college policies and study the information in this Catalog, the Schedule of Classes and registration materials supplied by the Admissions and Records office (A&R). The Admissions and Records office is a convenient place to ask questions about College procedures, visit the website at www.solano.edu. The following registration procedures apply to students enrolling in day, evening, on-campus, and off-campus classes.

Student Load - A student load is defined as the total units carried in a program in any one semester. Fifteen units constitute the normal semester program; twelve units constitute minimum full-time enrollment. In many cases, a program may require more than fifteen units per semester for a student to complete a major in the normal two-year period.

Permission to carry an excess load of 20.5 or more units may be granted to individuals depending on the excellence of their academic work. A "Carry Excess Load" petition must be completed with a counselor. Petitions are available at the Admissions and Records office.

The California State Education Code specifies that each lecture hour of a community college class requires at least two hours of study outside of class. The following schedule is suggested for students who attend college and also work.

SUGGESTED TIME PLAN

IF YOU WORK (Hrs./WK)	AND ENROLL IN (Lecture Hours)	AND STUDY (Recommended)	YOUR TOTAL LOAD IS (Hrs./Wk)
40	3	6	49
30	6	12	48
20	9	18	47
10	12	24	46
0	15	30	45

Getting Started

REQUISITES AND ADVISORIES

It is the intent of Solano Community College to guide students into courses in which they will have the best opportunity for academic success. Therefore, many courses have corequisites, prerequisites, or advisories indicated in their descriptions.

Requisites ensure that the student has the minimum level of knowledge and/or skills to be successful in the specific course or program. Requisite information for a course, if any, appears in the catalog description. For registration purposes, if a student is currently enrolled in a prerequisite course, that student may enroll in a subsequent course contingent on successful completion of the prerequisite. If the student is unsuccessful in the prerequisite, they will be dropped automatically from the subsequent course.

Corequisite: A course or equivalent preparation that must be taken concurrently with another course. A student's enrollment in a course with a corequisite is blocked until the requirements of the corequisite are satisfied.

Prerequisite :There are two types of prerequisites.

1. A course or equivalent preparation that must be completed before enrolling in another course.
2. A course or equivalent preparation that may be taken before or concurrently with another course. A student's enrollment in a course with a prerequisite is blocked until the requirements of the prerequisite are satisfied.

Advisory: A course or equivalent preparation that will broaden or deepen a student's learning experience in a subsequent course. A student's enrollment in a course with an advisory is not blocked for lack of the advisory skills.

Advisories are recommendations made to enhance or deepen the student's learning experience in a course. While the advisory skills and proficiencies are not required in order for a student to be successful in the course, advisories should be taken seriously. For specific information, students should consult their counselor or faculty advisor.

Verification of a Requisite: Students desiring to enroll in a course or program that specifies a co/prerequisite course and who have completed such a course at an institution other than Solano Community College must submit documentation to verify this completion. This documentation (unofficial or official transcript or report card) must be presented to a counselor, or Office of Admissions and Records.

Challenging a Requisite:

A student has the right to challenge a course requisite based on the following grounds:

1. The requisite has not been established in accordance with the District process for establishing requisites
2. The requisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner
3. The requisite course has not been made "reasonably available" and the required completion of it will cause a delay of one or more terms in attaining the goal specified in the student's authorized Individualized Education Plan (IEP)
4. The student has the knowledge or ability to succeed in the course or program despite not meeting the requisite.

In the challenge process, the burden of proof is on the student. In order to file a challenge, students must submit a "Petition to Challenge a Course Pre/Corequisite," available at the Admissions and Records office. If the challenge is upheld, the student will be allowed to enroll, contingent on the availability of space in the course; if denied, the student will not be allowed to enroll or, if already enrolled, will be dropped automatically from the class. Refer to the form for more detailed information on the requirements and procedures for processing this petition.

SCHEDULE OF CLASSES

A searchable class schedule is online at www.solano.edu. The Schedule of Classes contains registration information and instructions.

WAITLIST

Waitlist allows students to show their interest in a course where the seat capacity has been reached. When a seat becomes available, the next student on the waitlist will receive a notification email which is sent to the student's preferred email account. It is the student's responsibility to check their email. If students choose to have their student email forwarded to their personal email, it is the student's responsibility to ensure that the forwarded address is correct and that the donotreply&r@solano.edu is not blocked by the external email provider's spam filters. Students have 48 hours to register in the waitlisted course from the time the notification email is sent. Failure to register within the 48 hour notification window will result in the student being expired from the waitlist which opens the opportunity for the next student to register.

Getting Started

LATE REGISTRATION

During the first week of each semester, students must go to the classes they wish to attend. If space is available, the instructors will give them an add code which they should use to enroll in the course online through MySolano. All enrollment fees must be submitted upon registration. (See Academic Calendar at www.solano.edu for all deadlines.)

DROPPING CLASSES

- Students are responsible for officially dropping courses online through MySolano before established deadlines.
- Students are responsible for paying all applicable fees each semester of attendance. Failure to pay fees may result in a hold on the student's account.
- Established deadlines are listed for each course on student's Schedule Bill.
- Students may be dropped from a class by the instructor for non-attendance.
- Students who do not officially drop courses may receive a grade of F.

DEBTS AND FEES

All debts and Fees to the College must be cleared before students may register for classes. Most debts for the current semester that are associated with registration can be paid online. If students do not have internet access or their debt involves special circumstances, contact the Cashier's Office. Debts left unpaid may be subject to collections and/or holds on student's records.

For proof of payment students are advised to:

- Keep receipts
- Print a copy of the confirmation page
- Save a screen shot on phone or tablet.

Student Photo-Identification Card Fee

A photo-identification card is recommended for all students. Students should carry their card while on campus. The fee is payable at registration. Once purchased, students may have photo taken and an ID will be created on the spot at the Cashier's Window.

The card may be used during nine consecutive semesters of attendance. The card must be validated each semester upon presenting proof of registration. Students with a valid ID card are eligible for off-campus student discounts. There is no charge for the validation. Student ID cards may be obtained at the Cashier's Window, Bldg. 400 (first floor).

Health Center Fees

The provision of health services is very expensive and the California Community College system does not have sufficient funds to subsidize student health services. The State Legislature mandates that the burden of supporting a student health center will be shared by all Solano Community College students through a general fee, regardless of whether they utilize the health center or have their own insurance.

The State of California has mandated this fee for credit courses through Section 72252 of the California State Education Code. The fee is not applicable to students who can demonstrate, at the time of enrollment, that they are recipients of benefits under the CalWORKS program, the Supplemental Security Income/State Supplementary program, or the General Assistance program. The fee is also not applicable to the following students: those who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization; and/or students who are attending a community college under an approved apprenticeship training program. Fee waiver forms may be obtained from the Cashier's Office.

Refer to Financial Aid Programs & Eligibility CCPG information.

Student Center Fees

Education Code section 76375 authorizes districts to establish an annual building and operating fee, for the purpose of financing, constructing, enlarging, remodeling, refurbishing, and operating a student body center.

Getting Started

General Enrollment Fees and Other Costs

Enrollment fee

- \$46 per unit
- There is no enrollment fee for non credit classes
- Fees are due and payable at registration
- Upper division courses (numbered 400-499 as part of the Biomanufacturing Baccalaureate Degree) require an additional \$84 per unit which cannot be covered by the California College Promise Grant

Non-resident tuition fees (Out-of-State and International students)

- \$304.00 per unit
- \$11.00 per unit nonresidential capital outlay fee
- Fees are subject to change

Parking permits

Required for students parking their vehicles at the Fairfield campus, Vallejo and Vacaville Centers, and Vallejo Auto Tech Center

- \$32 per vehicle, Fall/Spring
- \$20 per vehicle, Fall/Spring for CCPGA Students
- \$16 per vehicle, Summer
- \$2 daily

Student Transportation Fee

- \$1.00 per unit, to a maximum of \$10.00 per term, depending on number of units taken

Student Representation Fee

- \$2.00 per term

Student transcript fee

- \$2.00
- Rush service \$7.50
- \$1.00 unofficial transcript

Student on-campus enrollment verification fee

- \$1.00
- Verification service through the National Student Clearinghouse: Visit studentclearinghouse.org for current fees

Health Center fee

- Fall/Spring-\$17.00
- Summer-\$8.00

Student photo-ID card for on-campus students

Good for nine consecutive semesters when validated

- \$5.00

Student Center fee

- \$1 per unit
- Up to a maximum of \$10 per academic year

Library fines

- See website for fees

Parking citations

- \$32 plus fees (for regular parking citations)
- \$275 plus fees (for handicapped parking citations)

Instructional and required materials fees

- See the Schedule of Classes

***All fees subject to change**

APPLYING FOR REFUNDS

Classes dropped by appropriate deadlines are automatically refunded. Any outstanding debts are deducted from refunds. Fees are refunded by check 2-4 weeks after classes are dropped.

California Community Colleges Enrollment and Non-Resident Tuition Fee

Fall and Spring Semesters: Full Term Classes Through refund deadline, 100% of the California Community College Enrollment Fee will be refunded.

Summer Session and Short-Term Courses: Through 10% of the course, 100% of the California Community College Enrollment Fee will be refunded.

Health and Student Center Fees:

The Health and Student Center fees are only refundable if all classes are dropped prior to the beginning of the semester.

Getting Started

TRANSPORTATION

Parking Enforcement

Parking is not enforced the first week in student lots during the fall and spring semesters and first summer session.

Permit parking is enforced in student lots during each semester and summer session M-F 7 a.m. – 10 p.m.. Ride Share, Visitor Parking, Faculty and Staff Parking, Disabled Parking and other reserved areas require display of appropriate parking permit at all times 24 hours a day, 7 days a week.

Parking Handbooks are available online at www.solano.edu/police/parking.php or at the Campus Sheriff's office in Building 1800B on the Fairfield Campus. California Vehicle Code and SCC District parking regulations are enforced by the Campus Sheriff's office.

An appeal process is available to contest parking citations www.pticket.com/solanocc, click on "How to Contest". For questions regarding parking, call (707) 864-7131.

Parking Permits

Daily or semester parking permits are required and must be clearly displayed (semester and permit # or date and time for daily displayed permits) throughout each semester and summer session for all vehicles parked at the Fairfield Campus, the Vacaville, Vallejo Centers and the Vallejo Auto Tech Center. Parking permits are not transferable from one person to another. It is against the law to alter, forge, reproduce, sell, or loan a parking decal to another person. Faculty/Staff and designated reserved parking (Rideshare, Disabled, Visitors, etc.) is enforced 7 days a week, 24 hours a day. Motorcycles may park in designated motorcycle areas without cost or permits. Motorcycles parked in other areas require permits at the vehicle price. Reference Debts and Fees Section for current permit prices.

Parking permits for the upcoming term are available at the time of registration and throughout the term.

- Log in to MySolano www.solano.edu
 - Click on "Student" on the left hand side
 - Under the "Parking" block, click on "Purchase Parking Permit"
 - Select the Appropriate Term
 - Fill out all information then click "Next"
 - Choose or complete "Deliver to" address then click "Next"
 - Make any needed edits and/or click "Next"
 - Enter credit card information
 - Agree to Credit Card Transaction Agreement then click "Submit My Order"
 - Follow the link to print out a Temporary Parking Permit, or go to the order confirmation email and print the attached Temporary Parking Permit
- The parking permit should arrive by mail 7 – 10 business days after purchase.

Daily Parking Permits

- Daily permits must be purchased and displayed each day for vehicles parked on campus
- Purchase Daily permits from Dispensers which accept one-dollar bills, coins, and debit cards
- Dispensers are located near the entrance of each lot
- Daily parking permits are interchangeable between the Fairfield Campus, the Vacaville and Vallejo Centers, and the Vallejo Auto Tech Center
- An inoperable dispenser does not relieve the requirement for a parking permit. A functioning dispenser must be located to purchase a daily parking permit
- Notify the Campus Sheriff's office if the permit dispensers malfunction: (707) 864-7131, or Bldg. 1800B

Rideshare/Car Pool Permits

- Visit the Student Life office in Room 1425 (across from the Bookstore, Fairfield Campus) to apply for a Rideshare permit. Rideshare permits are available on a limited basis for current SCC students who have three or more current SCC students sharing transportation to campus (carpooling)
- Provide current SCC ID cards, proof of enrollment, and license plate numbers of all cars to be driven as part of Rideshare/Car Pool
- Contact the Student Life office for more information: (707) 864-7000 ext. 4367, or Bldg. 1400, Room 1425

Rideshare parking spaces are not available at the Vacaville or Vallejo Centers.

Getting Started

Parking Lot Information

Student Lots:

Fairfield Campus 1 – 7
Vallejo Center 1 – 2

Vacaville Center 1 – 4
Vallejo Auto Tech Center

Faculty/Staff Lots:

Fairfield Campus A – F
Reserved stalls in other locations

Disabled Parking

Individuals parked in the marked Disabled Parking spaces must have state issued placard or plates AND an SCC daily or semester parking permit.

Early Learning Center Parking

15-minute drop-off or pick-up parking is available in the yellow zones in Lot D outside 200A. No faculty/staff or student parking is allowed in the Child Care Center yellow zone parking.

Cosmetology Services Parking

Parking for Cosmetology Services is located in Lot D. Cosmetology Parking spaces are in front of the Cosmetology Building (1600). Patrons must display a permit from the Cosmetology Department. These spaces are restricted to Cosmetology patron parking M-F 8:00a.m. – 5:00p.m.

Visitor Parking

Visitor parking is available in marked spaces in Lot 1. Parking is available in these spaces for 30 minutes at a time in a 4-hour block. For visits longer than 30 minutes, daily parking permits can be purchased from the dispensers. The visitor parking area is not available for faculty, staff, or students.

Rideshare Parking

Special permits are available for 3 or more SCC students sharing transportation to the Fairfield Campus to park in Rideshare spaces in Lots 1 and 2.

Travis Air Force Base (TAFB) Parking

Obtain base pass at the Visitor Control Center, 615 Airbase Parkway, Fairfield, CA (located on the left-hand side before the main gates) by providing the following information:

- A REAL ID is required to get on base. If driver's license states "Federal Limitation" you will be required to bring your U.S. Passport and Social Security card for identification purposes. If your driver's license does not state "Federal Limitations" you can use your license to be granted a base pass.
- Valid car registration for the vehicle driven to class each week (vehicle [gate] passes are not transferable to any vehicle other than the one for which the pass was originally issued)
- Valid proof of vehicle insurance
- Proof of enrollment at Travis AFB (registration printout with current classes is acceptable)
- Additional forms of identification as needed upon request
- Allow one hour for issuance of a gate pass.

Students must have their own transportation to Travis AFB. Automobiles without military ID or an authorized semester pass will not be admitted on Travis AFB.

Register for a course at Travis AFB by contacting the instructor to obtain an 'add code' and add the class. Contact the Travis AFB office at (707) 863-7878 for additional instructions.

Getting Started

FINANCIAL AID TYPES AND ELIGIBILITY

Financial aid assistance is available through the federal and state government, as well as through scholarships offered by the institution, private, and non-profit foundations.

Financial aid may help to offset the cost of higher education such as tuition, fees, books, supplies, housing, transportation and personal expenses. Be aware that financial aid does not fully support a student with all expenses. Financial aid is one of many tools to help students achieve their educational and career goals. Here is a listing of financial aid programs available through Solano Community College:

Financial Aid Programs

Grants – Federal and state gift aid that does not have to be repaid, unless the student withdraws before completing 60% of semester.

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)

Federal Work-Study - FWS-Money earned monthly working for the college through part-time work while taking classes.

Federal Direct Loans - Money borrowed which must be repaid with accrued interest.

- Subsidized
- Unsubsidized

California State Aid

- Cal Grant A, B, C, Transfer
- Chafee Grant for Foster Youth

California Community Colleges

- CCPG (CA residents)
- Student Success Completion Grant or SSCG for Cal Grant recipients
- Extended Opportunity Programs & Services (EOPS)
- Foster Youth Success Initiative (FYSI)
- CARE (Cooperative Agency Resources for Education)
- CalWORKS
- Solano Promise

Scholarships – Institutional, foundation, non-profit, and private gift aid that does not have to be repaid.

AB-540 Students The California Dream Act of 2011 (AB130/131) allows eligible undocumented and documented students to apply for and receive institutional scholarships and state administered financial aid (AB-130) and community college fee waivers (AB 131), effective January 2013. Apply with the CA Dream Application at dream.csac.ca.gov

How to Apply for Financial Aid

Apply online at www.fafsa.gov with the FAFSA (Free Application for Federal Student Aid) using the Solano Community College Title IV School Code 001292. Students are encouraged to submit the FAFSA by the annual March 2nd priority and state deadline; however, the FAFSA may be submitted late through the end of the spring term of the following academic year. Visit the FAFSA/CADAA Lab for help.

NOTE: Application processing may take up to 10 weeks after completing and submitting additional required forms and documentation (see “Student Requirements” on the MySolano Financial Aid Tab.)

Students are encouraged to log in to their MySolano account to read frequent email correspondence and check financial aid status. For more information, visit www.solano.edu/financial_aid.

ELIGIBILITY

Financial aid is based on financial need and several other factors. To be eligible to receive Federal Title IV financial aid assistance, students must:

- Demonstrate financial need (except for certain loans).
- Have a high school diploma or a General Education Development (GED) certificate, meet other standards home state establishes that the Department approves; complete a high school education in a home school setting that is treated as such under state law; or have completed 6 semester units in a post-secondary degree or certificate program prior to July 1, 2012.
- Be a U.S. citizen or eligible non-citizen.
- Have a valid Social Security Number or Alien Registration Number (ARN).
- Register with the Selective Service (males age 18-25). Students may use the online FAFSA at www.fafsa.gov to register, or may register at www.sss.gov, or call 1-847-688-6888.
- Maintain Satisfactory Academic Progress (SAP).
- Not be in default on a federal student loan.
- Not owe money on a federal student grant.

Getting Started

COST OF ATTENDANCE

Every aid year, the financial aid office develops a basic budget based on the expenses that all students are expected to have during a year. This budget is not an amount that the college charges, but an estimate of how much it costs to live for a typical nine-month school year. This estimate is used during the awarding process to determine your unmet financial need; many types of awards use unmet need as a criterion for eligibility or as a factor in determining award amounts.

Note: Federal regulations require us to reduce a student's budget when they enroll in less than six units in a term.

For the 2021-22 aid year, the financial aid office has used state averages provided by the California Student Aid Commission to develop the following nine-month budgets:

	Living off-campus	Living at home
Tuition	\$1,170	\$1,170
Books and Supplies	\$1,125	\$1,125
Food and Housing	\$17,253	\$9,081
Transportation	\$918	\$999
Personal Expenses	\$3,843	\$3,276
TOTAL	\$24,309	\$15,651

SATISFACTORY ACADEMIC PROGRESS (SAP)

Federal and State financial aid regulations require Solano Community College (SCC) to establish, publish, and apply qualitative, quantitative and incremental standards by which SCC can determine whether a student requesting and/or receiving financial aid is maintaining Satisfactory Academic Progress (SAP) in their course of study. Financial Aid requires a declared major and enrollment in a Title IV eligible program (16 or more units in length).

Solano Community College Financial Aid office evaluates all three of the following standards at the end of each term to determine a student's eligibility for Financial Aid.

Qualitative-Grade Point Average (GPA)

- Students must have a cumulative GPA of 2.0 on a 4.0 scale.
- Grades for remedial and English-as-Second-Language (ESL) courses count in the GPA calculation.

Quantitative-Pace of Progression

- Students must complete at least 67% of the cumulative number of SCC units attempted at each SAP evaluation.
- Completion rate is computed by dividing the total number of institutional units completed by the total number of units attempted.

Quantitative-Maximum Timeframe

- A student may not exceed 150% of published units of the program in which the student is enrolled. Example: For degree and transfer programs of 60 units, maximum timeframe is 90 units.
- For eligible certificate programs, maximum timeframe varies (i.e., 30 unit program = 45 units maximum, 18 unit program = 27 units maximum);
- All attempted units are counted in the calculation of the 150% program limits.

Warning

Students not making SAP will be automatically placed on "Warning" status for a period of one (1) term

- SCC uses SAP Warning status for students identified as not meeting cumulative overall SAP standards for one term.
- Students may receive financial aid during the warning period.
- Students who meet the cumulative overall SAP standards at the end of their Warning term become fully eligible again the following term.
- Students not making SAP at the end of the Warning period are determined to be ineligible for financial aid.

Re-establishing Eligibility

- Students may reestablish their eligibility by taking classes without receiving Federal Financial Aid, and meeting the 67% completion rate and minimum cumulative GPA of 2.0.
- Any grade changes performed within the previous term will be assessed at the request of the student.
- Sitting out one term or longer will not reestablish eligibility.

Getting Started

Student 'SAP Appeal for Federal Financial Aid' for Extenuating Circumstance

- Students determined ineligible for Federal Financial Aid due to unsatisfactory academic progress may submit a 'SAP Appeal for Federal Financial Aid' based on extenuating circumstances.
- SAP Appeals require the following documentation:
 - Typed, signed, and dated statement indicating what extenuating circumstance caused the student to fall below the SAP standards, and what has changed that will allow the student to meet the standards and successfully complete their program of study
 - Supporting documentation of extenuating circumstances
 - A comprehensive Student Education Plan (SEP) signed by an SCC counselor
 - A Financial Aid Review from National Student Loan Data System (NSLDS), www.nsls.ed.gov
 - Current term Progress Report may be required prior to final determination

Final decision is a Professional Judgment by a Financial Aid administrator on a case-by-case basis and is neither capricious nor discriminatory.

Exception to SAP Policy and/or requests for additional documentation may be made on a case-by-case basis by the Director of Financial Aid.

Probation

- Approved appeals result in the student being placed on SAP probation;
- Students may receive financial aid during terms of probation;
- Students must meet the SAP standards and make consistent academic improvement by the end of each probationary term.

SCHOLARSHIPS

www.solano.edu/scholarship_foundation/

www.solano.edu/scholarships/

www.solano.edu/financial_aid/

Solano Community College offers a number of scholarships from awards provided by a variety of social and professional organizations. Qualifications vary according to conditions stipulated by the donors of the funds. Recipients are usually selected on the basis of academic ability, promise for continued scholarly achievement, special talents and/or leadership abilities.

THE CALIFORNIA PROMISE GRANT, CCPG

A state financial assistance program offered through the California Community College system. Enrollment fee(s) for qualifying students who are California residents will be waived who meet CCPG income eligibility requirements:

- Be a California resident or eligible AB 540 student.
- Apply with the FAFSA (Free Application for Federal Student Aid) at www.fafsa.gov, the California Dream Act Application CADA dream.csas.ca.gov or the CCPG application. Refer to www.solano.edu, click "Financial Aid" for the paper application or use the CCCApply online CCPG application.
- Fulfill one (1) of the following three (3) methods.

1. CCPG A:

- Be a recipient of CalWORKS/TANF (Temporary Assistance to Needy Families), or SSI/SSP (Supplemental Security Income/State Supplemental Program), or General Assistance/General Relief at the time of enrollment.
- Provide documentation of receiving CalWORKS/TANF, or SSI/SSP, or Untaxed Income Verification form of cash benefits currently received at time of enrollment.
- Documentation may include a copy of correspondence from the local office of Public Assistance which identifies the student (or family members if applicable) and indicates that a monthly payment is being awarded for the current or prior month. This may include a copy of an Adjustment-to-Benefits letter, Notice of Action or Aid Verification Summary that shows current receipt of CalWORKS/TANF, SSI/SSP, or General Assistance/General Relief and the amount of the grant.

Getting Started

2. CCPG B:

- Meet the following 2021-2022 Income Standards:

Number in Household (including yourself)	Total Household income (adjusted gross income and/or untaxed income)
1	\$19,140
2	\$25,860
3	\$32,580
4	\$39,300
8	\$46,020
6	\$52,740
7	\$59,460
8	\$66,180
Each additional family member	add \$6,720

These standards are for the academic year and are based upon the federal poverty guidelines, as published each year, in January, by the US Department of Health and Human Services. Under Title 5 of the California Code of Regulations, the student or the student's family must have a total income in the prior year that is equal to or less than 150% of the U.S. Department of Health and Human Services Poverty Guidelines based on family size.

3. CCPG C

- Demonstrate minimum need threshold of \$1,104.00 based upon FAFSA data. The "minimum need" threshold will be established annually by the California Community College Chancellor's Office. The minimum need threshold shall be in effect starting in Fall and ending in Summer for each academic year.

Important California College Promise Grant or CCPG (Formerly BOG Fee Waiver) Changes:

Once a student qualifies for the CCPG, it is important that the student ensures that they are meeting the **ACADEMIC** and **PROGRESS STANDARDS** in order to avoid losing the CCPG.

ACADEMIC: the student must sustain a GPA of 2.0 or higher. If cumulative GPA falls below 2.0 for two (2) consecutive primary terms (Fall/Spring semesters), the student may lose CCPG eligibility.

PROGRESS: a student must complete more than 50% of coursework. If the cumulative number of units completed is not more than 50% in two (2) consecutive primary terms (Fall/Spring semesters), the student may lose CCPG eligibility.

COMBINATION of ACADEMIC and PROGRESS

STANDARDS: any combination of two (2) consecutive terms of cumulative GPA below 2.0, and/or cumulative unit completion of not more than 50% may result in the loss of CCPG eligibility.

Solano Community College launches the award-winning GetAnswers online video service!



What is GetAnswers?



GetAnswers is an online library of short (60–90 seconds each) video clips that are accessible on demand, 24/7.



GetAnswers videos communicate complex financial aid information to current and prospective students in an easy to understand style.



GetAnswers covers a wide array of topics including: Financial Aid, Financial literacy, Loans, Grants, and more.



GetAnswers allows users to easily find pertinent videos through audience segmentation, categorization, and related content.



GetAnswers is a great tool for training new staff as well as cross-training purposes.



GetAnswers is a resource for any office to use!

We encourage you to visit Solano's GetAnswers site at: solano.financialaidtv.com



Student Resources

Student Life, Support Services and Programs

General Campus Services

Student Resources

ASTC (Academic Success and Tutoring Center)

www.solano.edu/academic_success_center/

Main Campus – Inside the Library (Bldg 100)

Vacaville - Room 137

Vallejo - Room 124

The Academic Success and Tutoring Center (ASTC) encourages and facilitates academic success through academic support services for students. The ASTC provides information about other important campus support resources; a quiet study space; use of laptop computers and printer; and academic success workshops (i.e. study skills, exam preparation, time management, research and writing papers).

ASTC-STEM (Academic Success and Tutoring Center - Science, Technology, Engineering, and Mathematics)

www.solano.edu/academic_success_center

(707) 864-7000 x4498

Student Services (Bldg 400) - 2nd Floor Room 434

M/W 9:30am-6pm, T 11am-6pm, R 11am-5pm

The ASTC-STEM program is a local program that supports economically and educationally disadvantaged students in attaining a degree in math, science or engineering related majors with a goal of transferring to four-year universities.

The ASTC-STEM model for success includes a variety of services that results in a high rate of academic achievement.

Student Study and Computer Lab Center

A dedicated multipurpose space for quiet study, workshops, computer related activities, and information sharing. There is a printer, resource books, and models available for students use.

Tutoring

Dedicated free peer tutors specifically for math and science courses.

ASTC-STEM Counselor

A dedicated counselor is provided to assist students with their educational planning and goals.

Assistance in the transfer process

Including field trips to universities, workshops on applications, and counseling.

Financial Literacy

The program connects students with resources to develop financial knowledge, including how to pay for community college and financial planning for transfer to a four-year college.

All students who are interested in participating in the ASTC-STEM program must meet the academic and economically disadvantaged criteria

A&R (Admissions and Records)

www.solano.edu/ar/

admissions@solano.edu

(707) 864-7171 Student Services (Bldg 400) - 1st Floor

The Admissions and Records Office is responsible for implementing College policies and procedures related to admissions, registration, grades and transcripts.

Registration information is printed in the Schedule of Classes and is available at www.solano.edu.

A.S.S.C. (Associated Students of Solano Community College)

www.solano.edu/assc/

(707) 864-7168

Student Center (Bldg 1400) - Room 1406 (707) 864-7268

The Associated Students of Solano Community College are represented by an Executive Board and the Student Senate. Every registered student is a member of the A.S.S.C. and is encouraged to participate in the student government. Students may obtain information from the Student Life office (Room 1425) concerning requirements for holding a student government office. The A.S.S.C. meets at 3:00 p.m. on Tuesdays during the Fall and Spring. Through its annual budget, the A.S.S.C. allocates student funds for the use and benefit of day, evening, and off-campus students. Students are invited to drop in and become familiar with the services provided by the Student Life office and to meet the people (students, staff, and faculty) who are working to make the student experience at Solano Community College a successful one.

CalWORKS

www.solano.edu/calworks/

(707) 864-7000 x4645

Fax: (707) 646-2058

Student Services (Bldg 400) - Room 406

The Solano Community College CalWORKs Program is dedicated to assisting students in achieving long-term self-sufficiency and success. The program provides comprehensive services to CalWORKs students while assisting them in achieving their academic goals. Students may earn a Certificate of Achievement, Associate Degree, or transfer to a 4-year institution. The CalWORKs program offers support, advocacy, counseling, work-study, and all childcare, transportation, and book costs. Our program is part of the college Student Services team and we are in collaborative partnership with Solano County Health and Social Service.

Student Resources

CARE PROGRAM

(Cooperative Agency Resources for Education)

www.solano.edu/eops/ (707) 864-7000 x4444

Student Services (Bldg 400) - 2nd Floor - Room 426

The CARE Program was established by the State of California to help welfare recipients become convinced that they and their children are important, that they are capable, and that with proper support they can break the welfare dependency cycle through education and job training.

CARE is a supplemental component of EOPS that specifically assists EOPS students who are single heads of welfare households with young children by offering supportive services so they are able to acquire the education, training and marketable skills needed to transition from welfare-dependency to employment and eventual self-sufficiency for their families.

Eligibility requirements for the CARE Program include:

- An EOPS student currently receiving the Pell Grant.
- Enrolled full-time at Solano Community College.
- A current recipient of Tribal TANF/TANF/CalWORKS cash aid, or at least one dependent child currently receiving cash aid.
- Single parent head-of-household.

CARE provides support services and CARE Grant reimbursement for child care expenses, textbooks and supplies, transportation costs, academic counseling, and personal development activities and workshops.

CAREER AND EMPLOYMENT SERVICES CENTER

www.collegecentral.com/solano (707) 864-7124

Student Services (Bldg 400) - 1st Floor

The Career and Employment Services Center offers one-stop services including career exploration and skills assessment, labor market information and free employment assistance to all Solano Community College students and alumni in obtaining full- or part-time employment on and off campus. Students can utilize resources to research information on occupations, including employment outlooks, education and training requirements, prospective employers, and current salaries. The Center offers computerized career information systems, online resume posting, and up-to-date listings of current employment opportunities.

Solano Community College Career and Employment Services does not accept or list any job opportunity that discriminates on the basis of sex, sexual orientation, race, religious creed, national origin, marital status, medical condition, or age (over 40). The SCC Career and Employment Services Center adheres to all laws governing equal opportunity and discrimination, including, but not limited to, Title VI and VII of the Civil Rights Act of 1964, Executing Section 504 of the Rehabilitation Act of 1973, California Fair Employment Practices of 1959, Americans With Disabilities Act of 1990, and the Discrimination and Employment Act of 1972.

COUNSELING SERVICES

www.solano.edu/counseling/

Student Services (Bldg 400) - 1st Floor

Main Campus (707) 864-7101 Vallejo (707) 642-8188

Vacaville (707) 863-7836 Travis AFB (707) 424-2431

The Counseling Department provides career and academic counseling services. The counselors work with students to help them understand their interests, abilities, and achievements. Counselors assist students in determining goals and planning programs to attain their goals. Careful course selection is the key to a successful college experience.

Because requirements differ for each program, major, and college or university, and because these requirements are subject to change, students are encouraged to consult with a counselor throughout their time at SCC. New students should plan to meet with a counselor well before the start of their term.

Counseling services are available in person at the main campus and College centers. Online Express counseling is available at:

www.solano.edu/counseling/ecounseling.php.

How to make a counseling appointment

1. In person at the main campus
2. Online at http://www.solano.edu/counseling/counseling_locations.php.
3. By phone

Student Resources

DSP (Disability Services Program)

www.solano.edu/dsp/

(707) 864-7136

Student Services (Bldg 400) - 1st Floor - Room 407

This program offers supportive services for students with physical, visual, hearing, learning and psychological disabilities or other medical problems. The purpose of this program is to enable persons with a disability to integrate successfully into the college program. Some of the supportive services are: specialized counseling, priority registration, assistive computer technology/alternate media, volunteer note takers, specialized equipment, and community agency liaisons. Also, adapted educational programs in Horticulture are offered.

The Solano Community College campus is ideal for the student with physical disabilities. Most rooms are on the ground level with many accessible restrooms and ramps, and second floor classrooms are accessible by elevator. The DSP maintains a working relationship with the Solano County Office of Education Department of Rehabilitation, Mental Health, Veterans Administration, Worker's Compensation (Private Rehab) and similar agencies.



www.solano.edu/childcare

(707) 864-7182

Bldg 200 & 200A (8am-4pm)

Fax: (707) 646-2061

The Solano Community College Early Learning Center provides child care and development services for children of student parents and from the community. The Center is also the early childhood education laboratory for students studying Child Development and Family Studies (CDFS).

The center is open for child care from 7:45 a.m. – 3:30 p.m. Monday through Friday, serving young children under age 5 in part-day and full-day programs. The afternoon preschool program is offered from 1:00 – 4:00 p.m. each week day.

To place a child on the subsidized or non-subsidized child care wait list, visit the 200 building on the Fairfield campus to complete an application. As openings occur, we enroll from the wait list.

The majority of the enrollment spaces are state or Federally subsidized with no- or low-cost child care available to low-income families. The fees for non-subsidized child care vary according to the child's age and hours enrolled in care.

The children's days and hours of enrollment are based upon the parents' school schedules and/or work hours. To support the consistency and structure that children need, we emphasize a consistent enrollment schedule for each child. We do not provide drop-in child care services.

High quality, developmentally appropriate services are provided daily by well-qualified, dedicated teachers. Child Development and Family Studies (CDFS) students learning to be teachers of young children work in the classrooms as well. The children receive one-on-one support through a curriculum designed to meet their developmental needs.

Department of Social Services Community Care Licensing numbers: 480111003 & 483000791

ENGLISH LABS

www.solano.edu/english_lab/

(707) 864-7239

Main Campus (Bldg 100)

Vacaville - Room 124

DROP-IN WRITING LAB

The English department offers a drop-in writing lab available to help students work on essays for any course at SCC, not just English courses. Students can drop in for immediate writing assistance if space is available. However, if the lab is busy, students have the option of signing up for drop-in sessions up to two weeks in advance. The lab is a place to help students develop the skills needed to improve their abilities in reading and writing. This means they will be introduced to strategies associated with active reading, brainstorming, organizing, revising and proofreading.

ESL (ENGLISH AS A SECOND LANGUAGE) LAB

www.solano.edu/labs/esl.php

(707) 864-7239

Main Campus (Bldg 100)

The English as a Second Language Department operates an ESL Lab to provide listening comprehension, pronunciation, and note-taking practice for second language learners. Students may also work on grammar and elementary word processing while carrying 0.5 unit per semester of lab hours.

Student Resources

EOPS PROGRAM

(Extended Opportunity Programs & Services)

www.solano.edu/eops/ email: eops@solano.edu
(707) 864-7000 x4444 Student

Services (Bldg 400) - 2nd Floor - Room 426

The EOPS program's primary goal is to encourage the enrollment, retention and transfer of students disadvantaged by language, social, economic, and educational circumstances, and to facilitate the successful completion of these goals and objectives in college.

Eligibility criteria for the EOPS Program include:

- Resident of California (or an AB540 student)
- Enrollment in at least 12.0 semester units at Solano Community College.
- Have not completed more than 48-degree applicable units. Unofficial transcripts from previous college(s) or school(s) are required with Application.
- Qualification and receipt of the California College Promise Grant or CCPG (formerly BOG Fee Waiver) Fee Waiver A, B or C with a zero EFC.
- Status of educationally disadvantaged according to
- State defined Title 5 Guidelines:
 - Did not graduate from high school or did not obtain General Education Diploma (GED)
 - Graduated from high school with a grade point average below 2.50 on a 4.00 scale. Unofficial copies of high school transcripts must be submitted with Application.
 - Previously/currently enrolled in remedial courses.
 - First generation student, foster youth, or disproportionately impacted student group.

EOPS support services include:

- Program review - orientation
- Academic, career, and personal counseling
- Bus tours to four-year colleges and universities
- EOPS Lab (study room for EOPS students)
- EOPS Book Library
- EOPS Book Lending Library
- EOPS Grant (based on funding)
- EOPS Transportation Grant (based on funding)
- Student Education Plan (SEP) development
- Fee waiver assistance for university applications
- Priority registration and registration assistance
- Progress reports
- Workshops
- Book voucher program for fall and spring semesters
- Transfer & Career Assistance

LIBRARY

www.solano.edu/library

Main Campus – Bldg 100

Vallejo – Room 124A

The Library houses a reserve collection of class-related materials and media, as well as a wide variety of materials for basic research. The Library also houses an Information Commons with sixty PC's, providing students with access to the Library's online catalog, databases, word processing packages, Excel, PowerPoint, and the Web. It also contains a Bibliographic Instruction Classroom accommodating students in library orientations and workshops, as well as Information Competency, Research and Web Searching courses. Independent and group study/work spaces are available as well.

The Library is open Monday through Friday when classes are in session, and is closed on all school holidays and breaks between sessions. The Library's website posts current hours of operations.

PUENTE PROGRAM

www.solano.edu/puente/

Puente Counselor/Coordinator: (707) 864-7000 x5779

Rebecca.LaCount@solano.edu

The Puente Program has won accolades for its approach to helping more than 400,000 underserved students thrive academically – by holding high expectations, valuing cultural and social capital, and ensuring that students and their families have critical college-going information and guidance. Puente's mission is to increase the number of educationally underrepresented students who enroll in four-year colleges and universities, earn degrees, and return to their communities as leaders and mentors to future generations. The Puente Program has three main components:

1. **One-year writing program:** ENGL 001, LR 010, and ENGL 310D in the fall and ENGL 002 in the spring. These classes provide a supportive and stimulating environment for Puente students to build confidence in writing skills.
2. **Focused counseling services:** Students take COUN 007 and work closely with the Puente counselor until graduation, exploring career options, developing an academic educational plan and identifying lifetime goals. Students will visit University of California and California State University campuses and attend an annual student transfer conference.
3. **Professional community mentors:** Each student is matched with a mentor from the business or professional community. Mentors share with students personal, academic, and career experiences, and provide a window into a "real life" work environment.

Student Resources



solano.edu/soar **SOAR@solano.edu**
Student Services (Bldg 400) - 2nd Floor - Room 435
M-R 9am-5pm (707) 864-7194

SOAR is a campus based community and support program focused on strengthening and expanding educational opportunities for formerly incarcerated students. Our mission is to support these students as they transform their lives through higher education. The SOAR Center is a stigma free space where SOAR Scholars can study, access technology and mentor each other on their path from reentry to graduation. SOAR connects students with resources on and off campus so they can achieve their educational, personal and career goals.

STUDENT CLUBS

www.solano.edu/assc/clubs/ **(707) 864-7000 x4367**
Student Center (Bldg 1400, Student Life Office) – 1425

A wide range of clubs and organizations reflecting cultural, social, ethnic, and academic interests are active on the campus. The Inter-Club Council is the governing body for clubs on campus and each club can have one voting member at the meetings. Inter-Club Council meetings are held the first and third Thursday of the month in room 1421 from 12:30 – 1:30pm during the Fall and Spring semesters. Announcements of meetings and activities are available from the Student Life office.

STUDENT LIFE OFFICE

www.solano.edu/student_development/
(707) 864-7000 x4367

Student Center (Bldg 1400) - 1425/1426

The Student Life office provides students with information about campus activities, special events, resources, and policies. Also, home to the College's Lost and Found. The Office supports an active student government program and encourages students to use the many services provided by the College. The Student Life office is a focal point for service and student leadership development. A wide variety of programs, services and clubs are available to students. Students are involved in decision making and policy determination through their representation on many college committees.

TECHNOLOGY SERVICES & SUPPORT

www.solano.edu/technology/helpdesk.php

Helpdesk@solano.edu **(707) 864-7000 x4690**

Bldg 100, M-F 8am – 4:30pm

Technology Services and Support (TSS) is responsible for all matters related to information technology services, strategic technology planning, and local data/telephone network planning and implementation.

TSS exercises overall responsibility for administrative computing, academic and instructional technology support programs, telephone, network infrastructure, local and wide area networks, media, and videoconferencing.

TRANSFER CENTER

www.solano.edu/transfer

(707) 864-7158

Student Services (Bldg 400), 1st Floor

The Transfer Center provides prospective transfer students with direction and assistance in navigating the transfer process. Obtaining regular assistance with transfer planning is essential for a successful transition to four-year universities and colleges. The Transfer Center can connect students with universities in a number of ways including campus tours, transfer fairs, and meetings, in person or virtually, with college admissions representatives. Students who visit the Transfer Center can receive assistance with learning about and selecting prospective universities, finding information about preparatory coursework, application assistance, and help with next steps after acceptance or denial from a university.

Services at the center are offered on a drop-in basis. The Transfer Center hours can be found on the Transfer Center website at <http://www.solano.edu/transfer/events.php>

Student Resources

VETERANS RESOURCE CENTER (VRC)

www.solano.edu/veterans/ Veterans@solano.edu
Bldg 2700 – Room 2750 (707) 864-7105
M-R 8am – 6pm Fax: (707) 646-2092
F 8am – 1pm

The Veterans Resource Center (VRC) provides assistance to Veterans, Active-duty, Reservists, National Guard, and eligible dependents of Veterans and Active-duty in their pursuit of an education, obtaining their Veterans Education Benefits (including VA work-study), DoD Tuition Assistance and My CAA. The student will receive assistance in filing for benefits, counseling through our Veterans Counselor and Active-duty Counselor on staff and we will act as the liaison between the Government Agency and the student.

Veterans Education Benefits

- Chapter 30 – Montgomery GI Bill® – Active-Duty
- Chapter 31 VA Vocation Rehabilitation
- Chapter 33 – Post 9/11 GI Bill® – Forever GI Bill®
- Chapter 1606 – Montgomery GI Bill® – Reservists

Dependent Education Benefits

- Chapter 35 – Dependent educational Assistance
- Fry Scholarship
- California Veterans Fee Waiver Program

Active-Duty & Reservists

- Department of Defense Tuition Assistance

Spouses of Active-duty Members

- My CAA

Note that in order to receive benefits while attending SCC, all students must be a regularly matriculated student and all classes taken must be required for the education objective selected.

Veterans and Armed Forces Priority Registration Eligible individuals who meet Title 5 Section 58108 Registration and Enrollment Procedures will be provided priority registration. Students must complete a Veterans Recourse Center Priority Registration Request Form & Provide supporting Documentation to the Veterans Resource Center.

Documentation accepted:

Veterans

- DD-214 Member 4 or copy 2 or 7
- VA Card
- CA Driver's License with Veteran Designation

Armed Forces

- Copy of Military Orders
- Active-Duty Leave and Earnings Statement (LES)

Veterans and Veteran Dependents Residency - H.R.7105 (Section 1005)

Affective August 1, 2021, all "covered individuals" will be charged as a California Resident. Contact the Veterans Resource Center for "covered individuals" eligibility.

Veterans Benefits and Transition Act of 2018

(Public Law 115-407) Title 1 – Education, Section 103

Solano Community College District complies with Veterans Benefits and Transition Act of 2018 (Public Law 115-407) Title – Education, Section 103. The District allows GI Bill (Chapter 33) and VR&E (Chapter 31) beneficiaries to attend a course of education for up to 90 days from the date the beneficiary provides a certificate of eligibility, or valid VAF 28-1905. The District will not impose a penalty, or require beneficiary to borrow additional funds to cover tuition and fees due to late payments from VA.

In accordance with California Military Families Financial Relief Act of 2005 Section 824 (b)(1), Solano Community College shall make arrangements to reasonably accommodate and assist the student so that he or she is able to meet any and all coursework requirements that he or she may have missed due to military service.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at www.benefits.va.gov/gibill, and the policy Veterans Benefits and Transition Act of 2018 (Public Law 115-407) Title 1 – Education, Section 103



Student Resources

GENERAL CAMPUS SERVICES

ATM SERVICE

Student Center (Bldg 1400) - Lobby

An ATM is available for students, staff, and visitors to the campus. All major ATM cards are accepted. Bank fees may apply.

BOOKSTORE

www.solano.edu/bookstore (707) 864-7111

Student Center - Building 1400

The Bookstore is responsible for providing used, new, rental, and digital text-books and instructional materials at a reasonable cost. The Bookstore also carries a selection of reference books, study aids, gifts, school and art supplies, and Solano Community College imprinted clothing. The Bookstore is open to the public all year, except campus holidays, and accepts Master Card, Visa, American Express, and Discover Card.

Book Buyback: Students may sell textbooks back to the bookstore at any time; the best time is at the end of the term during finals week.

Hours of operation vary in conjunction with the College calendar. For more information, hours, book buyback, refunds, selected products, services, textbook information, online ordering, and policies see the Bookstore's website.

CAFETERIA

Student Center, Building 1400

Fall/Spring M-R 7:30am-5pm, F 9:30am-1pm

The cafeteria offers a wide selection for breakfast and lunch from its full service grill. The selection includes daily hot lunch menus, soups, salad bar, deli sandwiches, Mexican and Asian menus, vegetarian, desserts, snacks, and beverages featuring our Peet's espresso bar.

COSMETOLOGY SERVICES

www.solano.edu/cosmetology/ (707) 864-7000 x4389

Bldg 1600 – Room 1610

The Cosmetology Department, during the semester, offers haircare, skin care, and manicuring services. All work is done by students, with instructor supervision.

Complimentary parking passes for clients are issued by the reception desk and must be placed on the dash of the client's vehicle. An allergy test must be on file with the Cosmetology Department if the client wishes to have chemical services performed. Appointments are appreciated but not required.

HOUSING

The College does not maintain dormitories. Students may obtain information on off-campus housing from the bulletin board in the Student Center located in Building 1400.

HEALTH CENTER FOR STUDENTS

www.solano.edu/health_center/ (707) 864- 7163

Student Center (Bldg 1400) - Room 1409

Fall/Spring M-R 8am-6pm, F 8:30am-3pm
(Limited summer hours)

A Public Health Nurse and Health Assistant are available for student's health needs.

Services include:

- Nursing assessment and management of minor health problems
- Treatment of minor acute illnesses and referrals
- First-aid and emergency care
- Band-Aids, aspirin, Tylenol, etc. for self-care
- Pregnancy testing and birth control information
- Nutritional information
- Information on sexually transmitted infections and referrals
- Immunizations
- Tuberculosis skin tests and referrals
- Hearing and vision screening
- Blood pressure screening
- Strep throat test
- Blood glucose screen test

The Public Health Nurse visits the Vallejo Center and Vacaville Center for most services. Contact the Student Health Center for times/hours of nurse visits to Centers. Students are welcome to drop-in for care or make an appointment.

Current schedules of activities sponsored by the Health Center can also be found in the ASSC Newsletter, published twice a month and posted online at www.solano.edu.

Student Resources

PUBLICATIONS

Catalog

Solano Community College publishes a general Catalog yearly

Schedule of Classes

prior to each semester (fall, spring) and summer session

Brochures

a variety on specific areas of study and student services

ASSC Newsletter

a bi-monthly bulletin published by the students

www.solano.edu

The College maintained website with current information on classes, policies, programs and services

TRANSCRIPTS

www.solano.edu/ar/transcripts.php

(707) 864-7171 **admissions@solano.edu**

All transcript ordering is online only. Visit our website for transcript information.

Official Transcripts – Solano Community College

Outgoing transcripts may be mailed to specified address or held for in-person pickup.

Official Transcripts – Incoming

All incoming official transcripts must be received in a sealed envelope from the sending institution. A request for transcript review must be submitted along with transcript for processing.

Unofficial Transcripts

Unofficial transcripts are available online via MySolano Student tab.

TRANSPORTATION

www.solano.edu/student_development/carpool_bus.php
(707) 864-7168

Public transportation to Solano Community College is available via local city transit agencies. For schedules and fares, contact the appropriate local agency. Information on bus schedules, ride shares, and carpools is available in the Student Life office, Room 1425/1426.

VERIFICATION OF ENROLLMENT

www.studentclearinghouse.org

<http://www.solano.edu/ar/verifications.php>

Solano Community College has authorized the National Student Clearinghouse to act as its agent for verification of student enrollment status. An official Enrollment Verification Certificate can be obtained at any time via the Clearinghouse website for a cost. Visit the website for additional information.

Academic Regulations

Academic Council

Student Responsibilities

Grades/Grading System

Standards for Academic Probation and Disqualification

Regulations on Course Repetition & Repeatability

Academic Honors

Academic Regulations

ACADEMIC COUNCIL

The Academic Council deals with all matters that pertain to problems that students are having with their academic performance, enrollment status, graduation status evaluations and financial matters that pertain to the registration process.

1. The Academic Council consists of the following membership: Vice President, Student Services or designee (Chairperson); Academic Dean; Dean of Enrollment Services; one counselor; two faculty members (appointed by the Academic Senate); and one classified staff member from Student Services

In the event that the Vice President, Student Services or designee is unavailable, an additional Academic or Student Services Dean will be appointed to serve in their place.
2. Students may petition the Academic Council concerning any matter that pertains to their academic performance, enrollment status or registration/withdrawal procedures.
3. The Academic Council reviews the scope and content of each student's petition.
4. Students may obtain Academic Council petitions from the Admissions and Records Office.
5. Students shall submit their completed form(s) to the Admissions and Records Office.
6. All Academic Council actions are decided by majority vote. If there is a tie vote, the Vice President, Student Services may vote to break the tie.
7. The Academic Council meets on an as-needed basis.
8. Students who submit petitions that pertain to academic disqualification must have their petitions reviewed and signed by a counselor before the Academic Council will consider their requests for readmission.
9. Each student who petitions the Academic Council is notified in writing, by the Student Services office, concerning the action taken by the Academic Council on their petition.
10. Any student who is not satisfied with the Academic Council action taken on their petition may request a second petition review by the Academic Council or an opportunity to meet with the Academic Council in order to discuss their petition. Requests for a second review or a personal meeting are directed to the Vice President, Student Services.

11. The Admissions and Records office is notified, by the Student Services office, of all Academic Council decisions. The Disabled Student Program and Services (DSP), Extended Opportunity Programs and Services (EOPS), and the Counseling Division are notified about special counseling needs for students.
12. The Academic Council Petition for each student is filed in their permanent cumulative folder along with a copy of the Academic Council's action.

(Reference: Student Services Policy and Procedures 5200)

STUDENT RESPONSIBILITIES

Attendance and Participation

Students must attend the first meeting of their classes each semester in order to verify their class enrollments. Students failing to appear may be dropped from class rosters. Regular attendance, completion of examinations and assignments, and participation in class activities and discussion is expected. Instructors shall provide students with written statements describing course requirements, grading standards and course prerequisites.

Regular attendance is an obligation assumed by every student at the time of registration. Absences per semester should not exceed the number of hours or the number of days, as determined by the instructor, that a class meets per week. Absences in excess of the maximum may result in students being dropped from classes. Students who fail to attend their classes may be dropped by their instructors no later than the end of 62.5% of a full-term class, short-term class, or summer session.

Students have the responsibility of verifying their enrollment status. **If students stop attending, it is their responsibility to make sure the drop card has been submitted to the Admissions and Records office or that they have completed the drop online in MySolano.**

It is the responsibility of students to know the status of their attendance records and to complete all academic work missed due to absences. Compliance with the above regulations may be waived in the presence of verifiable extenuating circumstances including accidents, illnesses, shift changes and temporary changes in military assignments. Students who are dropped from classes because of unsatisfactory attendance and/or participation may petition their instructors for class reinstatement.

Instructors may reinstate a student by signing an add card and writing "Reinstate" on the card. The add card must be submitted to the Admissions and Records office.

Academic Regulations

Attendance and Progress of Veterans

Veterans and their dependents must initiate their claim for educational benefits through the Veterans Resource Center on campus. After classes begin, students are required to notify the Veterans Resource Center promptly of any change in their unit loads or changes of address. Veterans should be aware that short-term classes, variable-unit courses and other flexible schedules may change the training time and affect benefits. A veteran who is academically disqualified must contact a Veterans Resource Center staff member for specific details concerning readmission.

Withdrawal from Classes

Students are responsible for officially dropping from classes and verifying that drop cards are submitted to the Admissions and Records office or completing the drop process using *MySolano*. Non-attendance or non-payment of fees is not a guarantee of removal from a course and does not alleviate responsibility to pay fees. Students who do not officially drop courses may receive an “F” for the term and incur a student debt.

Courses dropped after 20% of instruction through the end of 62.5% of instruction will be recorded as a “W” on the student’s record. A student must petition the Academic Council for a “W” after the last day to drop if extenuating circumstances apply. Documentation may be required.

Short-term or summer session courses, which are less than a full semester in length, dropped during the first 20% of the class will not appear on the student’s record. Courses dropped 21% to 62.5% of the term/session will be recorded as a “W” on the student’s record.

Students should refer to their Schedule Bill for course specific deadlines.

Withdrawal from College

Students who find it necessary to drop all courses during the semester are required to drop within published deadlines. It is important to clear any debts owed to the College before leaving the College. Failure to drop properly could result in failing grades and a student debt.

Students are advised to speak with faculty members and a counselor before deciding to withdraw.

Students should access their *MySolano* account to drop or do so in person at any of our Admissions and Records campus locations.

GRADES/GRADING SYSTEM

Solano Community College uses the following letter grade system for evaluating the quality of students’ work:

Symbol	Definition	Grade Point
A	Excellent	4.0
B	Good	3.0
C	Satisfactory	2.0
D*	Passing, less than satisfactory	1.0
F*	Failing	0.0
P	Pass (at least satisfactory)	0.0
NP*	No Pass (less than satisfactory or failing)	0.0

**Substandard grades (Title V 55761)*

Non-Evaluative Grades (Don’t affect GPA)

I	Incomplete	0.0
RD	Report delayed	0.0
W	Withdrawal	0.0
EW	Excused Withdrawal	0.0
MW	Military Withdrawal	0.0

A grade point average (GPA) is determined by dividing the total number of grade points earned by the total units attempted, excluding credit/no-credit courses and those in which W or I grades are earned. (Example: 36 grade points divided by 12.0 units attempted equals 3.0 GPA/B average).

Pass/No-Pass Option

The purpose of the pass/no-pass option is to encourage students to take challenging courses for electives outside the major area while avoiding undue concern for grades in competition with students who may be better prepared.

The P grade represents a letter grade of A, B, or C. The NP grade represents a D or F letter grade. Units earned in the grading system are not used in computing grade point averages. A letter grade cannot be changed to a pass/no-pass grade, and a pass/no-pass grade cannot be changed to a letter grade unless the course is repeated. A course in which a grade of NP has been earned may be repeated once for a P or letter grade. Some courses are offered only on a P/NP grading basis and letter grades may not be earned in these courses. These courses are identified in the Course Descriptions section of this Catalog.

Students may request P/NP grades in most regular graded class offered by the College but they are limited to a total of 15 semester units under the P/NP option while attending Solano Community College. In order to exercise this option, a petition must be filed with the Admissions and Records office at the time of registration, or by the fifth week of the semester for a full semester course. Petitions for summer session and short-term courses must be filed within the first 30% of the course.

Academic Regulations

Students should be aware that other colleges and universities may be reluctant to accept P/NP grades. Students consult with a counselor prior to taking the P/NP grade option in their major fields of study.

Auditing

Course auditing is permitted as a service for students to continue study in a designated credit course that they have successfully completed the maximum number of allowable enrollments. At the time of this catalog, the following courses are not eligible for auditing: NURS 103, NURS 104, FIRE 140, EMT 213, all AERO and all COSM. Auditing is not allowed in online courses. Auditing conditions are as follows:

1. Student participation in the course is subject to instructor discretion
2. No grades or credit shall be awarded and no transcript of record maintained
3. Auditors may not change their status in the course from audit to credit student or the reverse
4. Audit fees shall not be refunded. The auditing fee is \$15 per semester unit. One may apply to audit after the second class meeting when class size has been established for regular students.

Final Examinations

A final examination is required in all classes. For full semester day sections, final examinations will be given during the scheduled final examination period (finals week) at the end of each semester. For full-semester evening sections, short-term sections which end prior to finals week, and summer sessions the final examination will be given during the last class meeting. For short-term sections which end during the finals week period, the final examination will be given in accordance with the finals week schedule.

Incomplete Grades

An incomplete grade may be assigned only when a student has failed to complete the final examination, a class project, or a term paper because of illness or severe personal problems. Incomplete work must be completed by the end of one calendar year. When such conditions exist, the instructor and student must complete an "Incomplete Grade Contract" which outlines the work to be completed within one calendar year to result in an agreed-upon grade and states a preliminary grade which represents the grade earned by the student in work completed. When the work has been completed as outlined on the contract, the instructor will forward a "Change of Grade" form to the School Dean. Students who do not complete the contract will be assigned the preliminary grade at the end of one calendar year.

Change of Grades

Students requesting a change of grade must initiate the request within one year after completing the course for which the grade change is being requested. After this period, if there are extenuating circumstances, a change of grade may be requested; however, the period for requesting a grade change may not exceed 3 years after the completion of the course.

Students should submit a request in writing directly to the faculty member within one year after completing the course for which the grade change is being requested. If the faculty member is not available, the request should be submitted through the appropriate School Dean; however, only the faculty member that assigned the original grade or designee may authorize a change of grade.

Important Note

Except in the cases of mistake, fraud, bad faith, or incompetency, a grade assigned by an instructor is not a grievable issue as described by the California Education Code (Section 76224): ". . .when grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, and in the absence of mistake, fraud, bad faith, or incompetency, shall be final."

STANDARDS FOR ACADEMIC PROBATION AND DISQUALIFICATION

Students failing to maintain an acceptable standard of academic achievement shall be placed on academic probation, progress probation, academic dismissal or progress dismissal. (Reference: Student Services Policy and Procedures 5100) For purposes of probation and dismissal, only consecutive, primary semesters are counted. The semester in which a student's performance causes them to be placed on probation is the first probationary semester. Summer is not a primary semester.

Academic Probation

A. Placement on Academic Probation

A student shall be placed on academic probation for the following reasons:

1. A student has attempted at least 12 total semester units and has achieved a cumulative grade point average (GPA) of less than 2.0.

B. Removal from Academic Probation

1. A student on academic probation is removed when their cumulative GPA is 2.0 or higher.

Academic Regulations

Progress Probation

A. Placement on Progress Probation

A student shall be placed on progress probation for the following reason:

1. A student has attempted at least 12 total semester units and received transcript entries of "W", "I", or "NP" representing 50% or more of all units attempted.

B. Removal from Progress Probation

1. A student will be removed from progress probation when the student has received transcript entries of "W", "I", or "NP" for less than 50% of all units attempted.

Dismissal

Dismissal prohibits the student from enrolling until one primary semester has passed and the student has met with a counselor and/or attended a probation/dismissal workshop.

A. Placement on Dismissal

A student will be dismissed for one or more of the following reasons:

1. A student achieves a cumulative GPA of less than 2.0 for three consecutive primary semesters.
2. A student receives 50% or more of transcript entries as "W", "I", or "NP" for three consecutive, primary semesters.

B. Removal from Dismissal

A student will be removed from Dismissal for any of the following reasons:

1. A student's cumulative GPA is 2.0 or better and a student's transcript entries of "W", "I", or "NP" are less than 50% of all units attempted.
2. Satisfactory Progress after Dismissal: A student who meets the requirements for readmissions after dismissal and achieves a semester GPA of 2.25 or greater, but does not have an overall cumulative GPA of 2.0 or greater, shall remain on academic probation until the cumulative GPA is 2.0 or better. (This condition only overrides A.1. above.)

If semester GPA falls below 2.25 and/or student qualifies for Progress Probation, student will be academically and/or progress dismissed.

Petition Process

Any student who has a problem regarding their academic performance, enrollment status, or registration/withdrawal procedures should contact the Admissions and Records office at admissions@solano.edu.

Appeals

Students who are dismissed may file an appeal to contest the requirement of sitting out a primary semester with the Vice President, Student Services, or designee if extenuating circumstances exist which caused the substandard grades. To appeal, students complete the "Readmit After Dismissal" petition and indicate on it that they are appealing the requirement of sitting out a primary semester.

Academic Renewal Without Course Repetition– Student Services Procedures 5110

Pursuant to regulations established by the Board of Governors of the California Community Colleges (Title 5, Section 55764), students may, under the provisions outlined below, petition for the elimination of past substandard coursework (D, F, or NP) in the calculation of the student's grade point average (GPA).

1. Coursework eligible for consideration under this regulation shall be:
 - a. No more than thirty (30) units;
 - b. Clearly sub-standard coursework, defined as those courses in which the student earned grades of D, F or No Pass;
 - c. Courses taken at Solano Community College; and
 - d. Courses taken two or more semesters (not including summer session) prior to petitioning.
2. Students are not eligible for relief under the academic renewal policy until they have:
 - a. Completed at least fifteen (15) units with a grade of "C" or better at a regionally accredited post-secondary institution subsequent to the coursework to be alleviated;
 - b. Met the two semester (not including summer session) time requirement; and
 - c. Filed an Academic Renewal Petition with the Admissions and Records office
3. Courses eliminated under this policy may not be applied toward any degree or certificate requirement. Academic Renewal actions are irreversible.
4. If the request is approved, the student's academic record will be annotated to reflect the change, but all work will remain legible.
5. Solano Community College may honor the Academic Renewal Policy of other regionally accredited institutions in disregarding previous academic work.
6. Students should understand that other colleges may not honor the Academic Renewal Regulations of Solano Community College.

Academic Regulations

REPEATABILITY OF COURSES

Repetition of courses must be conducted by all California Community Colleges in compliance with California Title V Regulations, Sections 55040 through 55046.

Course enrollment to improve a sub-standard grade:

Students may enroll in a course up to three times or until the student receives a satisfactory grade, whichever comes first. A sub-standard grade is a notation of D, F, NP (No Pass), or W (Withdrawal). Solano Community College requires students to “petition to repeat” prior to the second attempt. A W will count as an attempt.

Repeatable Courses

Most courses with an earned grade of C or better cannot be repeated. However, there are specialized courses that are designated as repeatable and are noted in the course description. Types of courses in this category include:

- Transfer level courses that may be taken more than once to meet the major requirement for transfer to a California State University (CSU) campus or to other universities with a similar transfer requirement.
- Intercollegiate Athletics and their related conditioning courses may be repeated to meet requirements for CCCAA eligibility.
- Intercollegiate academic or vocational competition courses with the primary purpose to prepare students for competition.
- Variable unit courses cannot be repeated but students may enroll up to the total maximum units allowed.

Petition for An Exception - Non-Repeatable Courses

Some special circumstances allow students to complete the Course Repetition petition process when the request does not meet the criteria cited in the section above:

- A student may enroll again in a course due to a significant lapse of time (defined as at least 36 months) since the student’s successful completion of the course and there is a properly established recency prerequisite for a course or program at Solano Community College or at another institution of higher learning. In cases where a transfer university requires a course to be taken as a university prerequisite more recently than 36 months, the college may alter the 36-month rule with documentation provided by the student submitted with the petition. Grades awarded for courses under this circumstance shall not be calculated in a student’s grade point average. This is a one time exception.

- Upon verification a student may enroll again in a course where a legally mandated or licensure training requirement as a condition of continued paid or volunteer employment. These enrollments are not limited. Documentation for verification may include an expired CPR Certification, the job announcement or job description, coupled with a certification by the student that they need the course for employment.
- A special course that can be enrolled by petition for a disability-related accommodation.
- The college finds that the student’s most recent previous grade is, at least in part, the result of extenuating circumstances. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the student’s control. This is a one-time exception.

Limitations on Active Participatory Courses

Active participatory courses are those courses where individual study or group assignments are the basic means by which learning objectives are obtained. These include kinesiology and dance active participatory courses, as well as visual and performing arts active participatory courses (theatre arts, music and art). Some courses in these categories are related in content and have been placed in groups called Course Families. Course Families allow for skill development beyond an introductory level. A Course Family may include more than four courses, but students are limited to enrolling in a maximum of four courses in any one family. If a student gets a sub-standard grade (a notation of D, F, NP [No Pass], or W [Withdrawal]) in any course within a family, the sub-standard grade counts as one attempt of the four course limitations in the family. Consult with a counselor for more information.

Academic Regulations

ACADEMIC HONORS

President's Honor List recognizes those students who earn academic honors in a given semester. The President's List includes those students who have earned a grade point average of 3.85 or higher with at least 39 grade points in not fewer than 12.0 units of work completed.

Deans' Honor List recognizes those students who earn academic honors in a given semester. The Deans' List includes those students who have achieved a grade point average of at least 3.25 or higher with at least 39 grade points in not fewer than 12.0 units of work completed.

Alpha Gamma Sigma: Permanent membership in Alpha Gamma Sigma, the California Community College Honor Society, recognizes students who have maintained a high grade point average in all college work. Permanent membership may be awarded at the time of graduation. Applications and information are available in Room 1425/1426 in the Student Center.

Phi Theta Kappa: Permanent membership in Phi Theta Kappa International Honor Society, Beta Mu Gamma Chapter, recognizes the scholarly achievements of SCC students who have completed 12 semester hours of associate degree course work, with a grade point average of 3.5. Grades for courses completed at other institutions will not be considered when determining membership eligibility. A cumulative grade point average of 3.25 must be maintained to remain in good standing. Applications are available in the Student Life office, Room 1425/1426 in the Student Center.

Honors at Graduation: A student who achieves a cumulative grade point average of 3.50 to 3.74 will be graduated with honors; and 3.75 and above with high honors.

Campus Safety

Campus Safety Education and Prevention

Crime Statistics

Reporting Crimes or Other Emergencies

Sexual Harassment

Solano Community College Sheriff's Department

Non-Emergency - (707) 864-7131

Emergency - (707) 580-6526

911

Campus Safety

CRIME AWARENESS AND CAMPUS SECURITY ACT OF 1990 (CLERY ACT)

The Solano Community College District is in compliance with the Federal Crime Awareness and Campus Security Act of 1990 (Clery Act). Information required by this act may be found in the Student Handbook: Rights, Responsibilities & Procedures. "Crime Statistics and Campus Safety Information" is available on the College's Sheriff's Department website. An updated statistics list is available online at <http://ope.ed.gov/security>.

SAFETY FOR THE COLLEGE COMMUNITY

The following information is published in accordance with Public Law 101.542 (§201), as amended by Public Law 102.26, the *Crime Awareness and Campus Security Act of 1990*.

Crime Reporting Procedures - No community or campus can be totally risk-free in today's society. Students, faculty, staff, and visitors are partners in creating an atmosphere that is safe and conducive to learning.

All law enforcement services are provided by the Solano County Sheriff's Office under a Memorandum of Agreement with Solano Community College District. The department is located in Bldg. 1800B. When on campus report any criminal action or other emergency by calling (707) 580-6526 or 911. The non-emergency number is (707) 864-7131. Off campus dial 911 to report an emergency.

College Property - Solano Community College property may not be removed from the campus without the expressed, written permission from the school dean or area supervisor. Unauthorized removal of College property from the campus is a violation of the law and may be prosecuted by the College.

Sheriff's Department - It is the policy of the Solano Community College Board of Trustees to protect all members of the College community and to protect the property of the District (Board Policy §3410 & §3800). Under the general direction of the Service Area Manager assigned by the Sheriff's office, the campus Sheriff's Department shall ensure that reasonable protection is provided by using methods that fit within, and contribute to, the educational philosophy and process of the institution.

Deputies have full peace officer authority, pursuant to California Penal Code (§830.32A) and Education Code (§72330). They have peace-officer training, as prescribed by the California Commission on Peace Officer Standards and Training. Drivers should be aware that Deputies are authorized to enforce all provisions of the California Vehicle Code relative to both moving and non-moving violations on campus.

Sexual Assaults - Sexual assaults including rape, acquaintance rape, and other sex offenses, should be reported to the campus Sheriff's Department immediately. Deputies can be contacted in Bldg. 1800B or by calling (707) 580-6526. The non-emergency number for campus Sheriff's Department is (707) 864-7131.

A victim of sexual assault should not touch or change anything at the scene. They should not wash, take a shower, or change clothing; which may destroy important evidence. Sexual assault victims will be transported to the nearest hospital for examination and collection of important evidence by trained medical personnel.

Services available on campus include a deputy trained in sexual assault investigation. During the fall and spring semesters, a nurse is located in Bldg. 1400. The rape crisis hotline for Solano County is (707) 258-9404. Possible sanctions for a perpetrator of a sexual assault include: criminal prosecution, official warning, reprimand, social probation, restitution, suspension by teacher, emergency summary suspension, disciplinary suspension, disciplinary probation, and expulsion. All criminal investigations are conducted independently of College rules of conduct inquiries.

Campus Safety

Crime Prevention - One of the essential ingredients of any successful crime prevention program is an informed public. It is the intent of Solano Community College to inform students and staff, in a timely manner, of any criminal activity or security problems that may pose a reasonable threat to their physical safety. Another critical element of a campus safety program is training. The Sheriff's Department, the ASSC and the Office of Student Services sponsor on-going training programs on various topics, ranging from sexual assault awareness to the prevention of substance abuse.

Finally, all effective crime prevention programs include some measure of people watching out for one another. All staff and students are asked to be ALERT, SAFETY-CONSCIOUS, AND INVOLVED.

The Campus Crime Statistics Report is published annually and is available in the Solano Community College Sheriff's Department and on the College's website at <http://www.solano.edu/police/statistics.php>.

Off-Campus Crime: The local police departments have been requested to provide Solano Community College with crime data for the areas surrounding the facilities operated by the College. When a safety problem arises, the campus Sheriff's Department will notify persons using these facilities.

Sexual Harrassment

Sexual Harassment is prohibited by law and by College policy (Board Policies §4270 and §4285). Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors and other verbal, visual, or physical conduct of a sexual nature or communications constituting sexual harassment made by someone from or in the work place or educational setting when:

1. Submission to the conduct is explicitly or implicitly made a term or condition of an individual's employment, academic status, or progress.
2. Submission to, or rejection of, the conduct by the individual is used as the basis of employment or academic decisions affecting the individual.
3. The conduct has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile, or offensive work or educational environment.
4. Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors programs, or activities available at or through the district.

Examples of Sexual Harassment:

1. Making unsolicited verbal, physical, written, and/or visual contact of a sexual nature.

Verbal: Offensive and/or inappropriate comments, epithets, whistling, jokes and innuendos of a sexual nature, including but not limited to, comments of a sexual nature about another person's or one's own physical appearance, attire, sexual thoughts, sexual behavior, marital status or sexual orientation.

Physical: Offensive and/or inappropriate touching, interference with movement, or sexual assault, including but not limited to, kissing, touching intimate places, unnecessary and unwelcome touching of non-intimate places, or blocking of free bodily movement.

Written: Sending or delivering sexually suggestive letters, notes, invitations, electronic media transmissions, or other reading materials.

Visual: Displaying sexually suggestive posters, pictures, drawings, cartoons, computer graphics or objects; making sexually suggestive or obscene gestures; leering or staring at another person with sexual intent.

The above types of conduct of a sexual nature may be considered sexual harassment whether or not they are directed at a specific person. A workplace or educational setting which is permeated with sexual communications or behaviors may create a hostile environment to all persons within that setting. Whether an environment is hostile depends on the totality of the circumstances, including such factors as the frequency and severity of the conduct and whether the conduct has a negative impact on a person's work or educational environment.

2. Continuing to express sexual interest after having been informed that the interest is unwelcome.
3. Coercive sexual behavior such as making reprisals, threats of reprisal, or implied threats following a rebuff of harassing behavior used to control, influence, or affect the career, salary, or work environment of another person, including but not limited to promises or threats regarding appointments, promotions, transfers, changes of assignment, or performance evaluations which are explicitly or implicitly made contingent on the person tolerating or submitting to the sexual behavior.

Campus Safety

4. Coercive sexual behavior such as making reprisals, threats of reprisal, or implied threats following a rebuff of harassing behavior used to control, influence, or affect the educational opportunities, grades, or learning environment of a student, including but not limited to promises or threats regarding grades earned or deserved, course admission, suggesting poor performance evaluations, letters of recommendation, benefits or services such as scholarships, financial aid, or work study jobs which are explicitly or implicitly made contingent on the student tolerating or submitting to the sexual behavior.

Obligations of All District Employees and Students:

All employees and students shall report to their immediate supervisor or school official any conduct on the part of other employees and students or non-employees, such as sales representatives or service vendors, who sexually harass any District employee, student, or other persons. If the immediate supervisor is the alleged harasser, contact Human Resources. Immediately following notification to the supervisor or school official, the party shall notify Human Resources and provide all information relevant to the complaint.

Because different procedures apply after a formal governmental administrative charge or complaint is filed, any employee receiving such a charge or complaint is directed to Human Resources immediately.

All employees and students shall cooperate with any investigation of an alleged act of sexual harassment conducted by the District or by an appropriate state or federal agency.

No employee or student of the District shall take any action to discourage a victim of sexual harassment from reporting such an instance.

The District will respond to any conduct which may constitute unlawful/prohibited discrimination as it deems appropriate, including but not limited to an internal investigation of reported conduct, and will take appropriate disciplinary action up to and including discharge, expulsion, or termination of contract if such is justified.

Policies and Rights

Civil Rights/Title IX

Academic Freedom – Faculty

Student Rights

Student Complaints and Grievances

Academic Integrity

Academic Honesty Policy

Solano Community College Honor Code

Standards of Student Conduct Policy

Drug- and Smoke-Free Campus

Policies and Rights

CIVIL RIGHTS/TITLE IX

Open Access & Non-Discrimination is the policy of the Solano Community College District, based on California Title 5 regulations, that no person, on the basis of ethnic group identification, national origin, religion, sexual orientation, age, sex, race, color, or physical or mental disability, shall be unlawfully subjected to discrimination under any program or activity that is funded directly by, or that receives any financial assistance from, the Chancellor or Board of Governors of the California Community Colleges.

Other forms of unlawful/prohibited discrimination under federal and state law include discrimination on the basis of race or national origin. Further, the College District, in compliance with state law, will not tolerate behavior by students or staff which insults, degrades, threatens, stereotypes, or otherwise discriminates on the basis of marital status, pregnancy, sexual orientation, political activities or affiliation and/or medical condition. In addition, Solano Community College has identified another form of discrimination not recognized by the Chancellor's Office and the State of California to include veteran status. Complaints should be filed with Human Resources. No one shall retaliate against anyone who files a discrimination complaint or participates in an investigation, or against anyone who is a representative of an alleged victim or an alleged offender.

"TITLE IX" of the Education Amendment of 1972 provides the starting point that guarantees the right of students, faculty, staff, and administration to be free of sexual discrimination and harassment. These guarantees apply to access to educational opportunities and courses, counseling and guidance services, treatment of students, access to personal records, athletics, financial assistance, the educational environment and work experience. Any inquiries related to "Title IX" concerns of sexual discrimination or harassment should be reported directly to the Title IX Administrator of the Solano Community College District, through Human Resources.

The Americans with Disabilities Act of 1990 provides individuals with disabilities equal educational opportunities, programs, and services. To ensure equality of access for students with disabilities, academic accommodations and auxiliary aids shall be provided to the extent necessary to comply with state and federal law and regulations. Academic accommodations and auxiliary aids shall specifically address those functional limitations of the disability which adversely affect equal educational opportunity. If students feel their accommodations have not been made, they may file a complaint with Human Resources.

ACADEMIC FREEDOM - FACULTY

The Solano Community College District affirms its belief in the academic freedom of its full time and adjunct faculty and students to engage in any teaching, studying, research, writing, and criticism deemed appropriate by such individuals to the spirit of free inquiry and pursuit of truth.

As stated in Academic Freedom and Tenure (Handbook of American Association of University Professors, 1969):

"...academic freedom consists in the absence of, or protection from, such restraints or pressures - chiefly in the form of sanctions, threatened by the state or church authorities or by the authorities, faculties, or students of colleges and universities, but occasionally also by other power groups in society - as are designed to create in the minds of academic scholars (teachers, research workers, and students in colleges and universities) fears and anxieties that may inhibit them from freely studying and investigating whatever they are interested in, and from freely discussing, teaching or publishing whatever opinions they have reached. "

Since these rights of academic freedom carry responsibilities with them, each faculty member and student should strive to be accurate, should exercise appropriate restraint, show respect for the opinions of others, and must indicate that they do not speak, necessarily, for the College.

Policies and Rights

STUDENT RIGHTS

Academic Freedom - Every student is guaranteed the right of full expression and advocacy, consistent with established District policy and regulations (Board Policy §5580). To this end, a “Hyde Park” location has been designated near the Student Center (Building 1400). This is the area where peaceful assembly may take place for the purpose of free expression and exchange of ideas by the students and staff of the College. Outside speakers and groups must be sponsored by a campus organization, faculty member or administrator.

The “Hyde Park” area is available five days a week, from 9 a.m. to 5 p.m., unless otherwise reserved. Scheduling of this area must be done through the Office of Student Life (Room 1425) prior to the activity.

Speech, with or without electronic amplification, shall not interfere with nor disrupt the orderly operation of the College, including classroom instruction, registration procedures, public programs, and athletic events. The expression of obscene, libelous, or slanderous statements, according to current legal standards, or statements which so incite students as to create a clear and present danger of the commission of unlawful acts on campus premises or the violation of College regulations or the substantial disruption of the orderly operation of the College are prohibited.

Privacy Act: Students at Solano Community College are guaranteed certain rights regarding their school records and information which they provide to the College (Family Educational Rights and Privacy Act of 1974, Section 438, Public Law 93-380). These rights include:

1. The right to inspect and review official college records.
2. The right to challenge the accuracy of the records.
3. The right of controlled access and release of information.

These rights are designed to protect the privacy of all students. A photo identification is required before releasing information. Official College records are kept in the Admissions and Records office. The Dean of Enrollment Services has been designated “Records Officer,” as required by the Act.

Release of Student Information: Student information cannot be released without the written consent of the student as provided for in the *Family Educational Rights and Privacy Act of 1974*.

Rights to Privacy: While the College does not provide general directory services, it may (by law under special circumstances) release the following information about a student: name, address, telephone number, date of birth, major field of study, participation in officially recognized sports, height and weight of members of athletic teams, dates of attendance, and degrees and awards received. If a student does not wish such information to be released, notify the Admissions and Records office in writing.

Directory information may be released at the discretion of the College to persons or agencies, such as the National Student Clearinghouse, which the College deems to have legitimate reason for access to the information. To prevent disclosure, written notification must be sent to the Admissions and Records office.

The College is required to release student names, addresses, and telephone numbers to armed forces recruiters, per the Solomon Act, without first obtaining a student’s permission. In addition, the College is required to release information to the U.S. Department of Education and the Federal Internal Revenue Services about fees paid and financial aid received according to the *Hope and Opportunity for Post Secondary Education Act of 1997*.

Student Equity: The mission of the California Community Colleges is to serve the educational needs of all residents of the State, regardless of the educational or socioeconomic background, ethnic, or cultural heritage of students seeking higher education opportunities. The College provides programs and services to ensure that all students have the opportunity to succeed academically. The overarching equity goal at Solano Community College is to provide a teaching and learning environment that is welcoming, supportive, and accessible to all participants, regardless of ethnicity, culture, nationality, language, disability, gender, sexual orientation, or religion, and to ensure that all students have an equal opportunity for academic success.

Policies and Rights

STUDENT RIGHT-TO-KNOW DISCLOSURE

Education is fundamental to the development of individual citizens and the progress of the Nation as a whole. There is increasing concern among citizens, educators, and public officials regarding the academic performance of students at institutions of higher education. Prospective students and prospective student athletes should be aware of the educational commitments of an institution of higher education. Knowledge of graduation rates helps prospective students and prospective student athletes make an informed judgment about the educational benefits available at a given institution of higher education.

Compliance with the Student Right-to-Know and Campus Security Act of 1990 completion and transfer rate statistics can be viewed at <http://srk.cccco.edu/index.asp>.

STUDENT COMPLAINTS AND GRIEVANCES

When students believe their individual rights, or rights to due process (as provided for by College policies, state laws, and/or federal laws) have been denied, they may seek redress through the formal complaint or grievance procedure.

Student Complaints: Unlawful/Prohibited Discrimination Policy and Complaint Resolution Procedures (§4285) and Sexual Harassment Policy (§4270)

In the event that any student believes that an act of prohibited and unlawful discrimination involving ethnic group identification, religion, age, sex, color or physical or mental disability, race, national origin, marital status, pregnancy, political activities or affiliation, medical condition, veteran status, or sexual orientation has been directed against them by another student, staff member, group or campus organization, the student may file a complaint with the Human Resources Department, (707) 864-7128.

At any time the student may submit their complaint to any of the following agencies: California Department of Fair Employment and Housing at (800) 884-1684; U.S. Department of Education, Office for Civil Rights at (800) 872-5327; California Community College Chancellor's Office at (916) 322-4005, and Equal Employment Opportunity Commission at (800) 669-4000.

Student Grievances: Non-Civil Rights (§5350)

A grievance may arise from a decision or action that has an adverse effect on a student with respect to their educational rights. It may arise when a student believes they have been denied educational rights provided by college, state, and federal policies, rules or regulations.

Copies of Solano Community College's current procedures on "Student Grievances: Non-Civil Rights (§5350)" are available free, upon request, from the Vice President of Student Services, or designee (Room 604) solano.edu/district_policies/series5300_student_rights.php These procedures outline the steps to file a grievance, describe the hearing process, and establish the time limits under which these procedures operate.

ACADEMIC INTEGRITY

At the heart of any institution of higher learning is the fundamental right of Academic Freedom for which Honesty and Integrity are preconditions. Academic Integrity is therefore fundamental to the Solano Community College community. Academic Integrity is maintained only when all academic work is the product of identified individuals. Any act of Academic Dishonesty interferes with Academic Integrity and therefore with the core values of this institution. All violations of Academic Integrity on the part of any member of the academic community constitute a serious offense.

ACADEMIC HONESTY POLICY

The College community functions best when its members treat one another with honesty, fairness, respect and trust. Therefore, an individual should realize that deception for the purpose of individual gain is an offense against the members of the College community. Violation of the Academic Honesty Policy includes but is not limited to:

1. Plagiarism – from the Latin word for "kidnap" – involves using another's work without giving proper credit, whether done accidentally or on purpose. This includes not only words and ideas, but also graphs, artwork, music, maps, statistics, diagrams, scientific data, software, films, videos and the like. Plagiarism is plagiarism whether the material is from published or unpublished sources. It does not matter whether ideas are stolen, bought, downloaded from the Internet, or written for the student by someone else – it is still plagiarism. Even if only bits and pieces of other sources are used, or outside sources reworded, they must still be cited. To avoid problems, students should cite any source(s) and check with the instructor before submitting an assignment or project. Students are also encouraged to visit the Academic Success and Tutoring Center (ASTC) for free help in understanding and preventing plagiarism. Students are always responsible for any plagiarism in their work.

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2. Violation of class assignments, examination rules, e.g., communicating or transferring information to another student, using any materials such as books, notes, etc., other than those expressly allowed for the exam, looking at another student's exam, etc.
3. 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 computer generated class notes, except as permitted by any college policy or administrative procedure.

Sanctions for Academic Dishonesty

An instructor who determines that a student has cheated or plagiarized has the right to give a failing (i.e. "F") grade, or numerical equivalent, for the assignment or examination. Instances of alleged plagiarism or any other form of academic dishonesty may be referred to the Vice President, Student Services, for action in accordance with the established disciplinary procedures as set forth in Solano Community College Board Policy §5300.

Following procedures consonant with due process, a student may be expelled, suspended, or given a lesser sanction if they are found to have committed an act of academic dishonesty. The totality of the particular circumstances, the student involved, and any relevant mitigating factors shall be considered in every case.

Additional Consequences of Violating the Academic Integrity Policy

Students committing acts of academic dishonesty not only face college censure but run a serious risk of harming their future educational and employment opportunities. Prospective employers and other educational institutions frequently use recommendation forms that ask for judgment and comment on an individual's moral or ethical behavior. Many scholarship opportunities, awards and memberships to academic societies, such as honor societies or discipline-specific associations, also rely heavily on recommendations.

College faculty and administrators knowledgeable of academic dishonesty infractions are ethically bound to report such incidences. Moreover, in all cases in which a grade of "F" is assigned for disciplinary reasons, the "F" will remain on the student's transcript, even if the course is retaken and a passing grade is achieved. Lastly, many other institutions and professional environments impose a no tolerance policy on dishonesty which may result in the student being expelled or fired.

Solano Community College students are therefore obligated to develop educational habits befitting their scholastic and career goals.

SOLANO COMMUNITY COLLEGE HONOR CODE

At Solano Community College, we believe that Academic Integrity is fundamental in an institution dedicated to personal development through learning, free inquiry, and the exchange of ideas. Honest work is an integral part of the learning process: it builds self-esteem, knowledge, and skills. It is the responsibility of every Solano Community College student to represent work truthfully and engage honestly in all assignments. We believe that any instance of academic dishonesty hurts the entire College community.

STANDARDS OF STUDENT CONDUCT POLICY (§5300)

A student attending Solano Community College may rightfully expect that the faculty and administration will provide and maintain an environment in which there is freedom to learn. Students shall respect and obey the civil and criminal laws and shall be subject to punishment for violation of the law in the same manner as other persons. Additionally, students shall obey the policies and the rules and regulations adopted by the Solano Community College District Governing Board, and shall be subject to discipline for violation of these policies and the rules and regulations of the District and the College.

Grounds for Disciplinary Action: Student conduct at Solano Community College and in the activities of the College must conform to and be compatible with the College's function as an educational institution. College-related misconduct for which students may be expelled, suspended, or given a lesser sanction may come within, but is not limited to, one or more of the following categories:

1. Academic Violations:

- a. Violation of the Academic Honesty Policy includes but is not limited to cheating or plagiarism. An instructor who determines that a student has cheated or plagiarized has the right to give a failing (i.e. "F") grade, or numerical equivalent, for the assignment or examination.
- b. Violation of class assignments, examination rules, e.g., communicating or transferring information to another student, using any materials such as books, notes, etc., other than those expressly allowed for the exam, looking at another student's exam, etc.

Policies and Rights

- c. 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 computer generated class notes, except as permitted by any college policy or administrative procedure.

2. General College Violations:

- a. Dishonesty, forgery, alteration, or misuse of college documents, records, identification, or knowingly furnishing false information to the college. Abuse of and/or tampering with the registration process.
- b. Obstruction or disruption of teaching, research, administration, disciplinary procedures, or other college activities, including, but not limited to, its community service functions, or of other authorized activities on college premises.
- c. Engaging in an 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.
- d. Unauthorized entry into college premises or facilities or use of college supplies, equipment, and or facilities.
- e. Violation of college policies or of campus regulations including, but not limited to, campus regulations concerning student organizations, the use of college facilities, or the time, place, and manner of public expression, library procedures, college bills, debts, and parking.
- f. Theft of or damage to property of the college, or of a member of the college community, or campus visitor, or knowingly receiving stolen college or private property on campus.
- g. Use of personal portable sound amplification equipment and other electronic devices (radios, cell telephones, pagers, and tape players, etc.) in a manner that disturbs the privacy of other individuals and/or the programs of the college.
- h. Causing or attempting to cause damage to district property or to private property on campus.

- 3. Littering on campus property:** including grounds, facilities, and parking lots.

- 4. Computer Usage Violations:** Students are to conduct themselves in accordance with Governing Board Policy 2067 regarding computer usage. Theft or abuse of computer resources, including, but not limited to:
 - a. Unauthorized access to a file, database, or computer to use, read, or change the contents, or for any other purpose.
 - b. Unauthorized transfer of a file.
 - c. Unauthorized use of another person's identification and password.
 - d. Use of computing facilities to interfere with the work of another student, faculty member, or college official.
 - e. Use of computing facilities to send obscene or abusive messages, or to defame or intentionally harm other persons.
 - f. Use of computing facilities to interfere with normal operation of the college computing system.
 - g. Use of computing facilities for student's personal financial gain or for solicitation of any kind

5. Behavior Violations

- a. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the persistent abuse of college personnel on college-owned or controlled property, or at college-sponsored or supervised functions.
- b. Assault, battery, or verbal abuse or conduct that threatens or endangers the health or safety of a student, college personnel, or campus visitor.
- c. Hazing or any act that injures, degrades, or disgraces or tends to injure, degrade, or disgrace any student, college personnel, or campus visitor.
- d. Gambling on District property.
- e. Failure to identify oneself when on college property or at a college-sponsored or supervised event, upon the request of a college official acting in the performance of their duties.
- f. Willful misconduct which results in injury or death to a student or to college personnel or which results in defacing, or other injury to any real or personal property owned by the District or on campus.
- g. Failure to comply with directions of college officials acting in the performance of their duties, open and persistent defiance of the authority of college personnel.

Policies and Rights

- h. Unauthorized entry on the campus or into the facility to which access has been denied after suspension or dismissal, during the suspension period. (CA Penal Code 626.2).
- i. Committing or attempting to commit robbery or extortion.
- j. Committing sexual harassment as defined by law or by college policies and procedures.
- k. Engaging in harassing or discriminatory behavior based on race, sex (i.e., gender), sexual orientation, religion, age, national origin, disability, or any other status protected by law.

6. Substance Violations

- a. 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, on college property, or at any college sponsored event.
- b. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the Governing Board.

7. Weapons Violations

- a. 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 district employee, which is concurred in writing by the college Superintendent-President.
- b. Possession or use of firecrackers, fireworks, pyrotechnics, or any other explosive device on any college-owned or controlled property or at any college-sponsored or supervised function.

8. Students who engage in any of the above are subject to the measures outlined in Student Services Discipline Procedures 5300.

Types of Disciplinary Action: Sanctions may be imposed for violation of the Standards of Student Conduct. One or more of the sanctions listed below may be imposed for any single or multiple violation(s). Any times specified in these procedures may be shortened or lengthened, if there is mutual concurrence by the parties. This procedure is administered by the Vice President, Student Services, or designee. Previous violations of the Student Conduct Code will be considered when determining appropriate sanctions for violations.

Non-Appealable Sanctions

1. Official Warning
2. Reprimand
3. Temporary Suspension by Instructor
4. Administrative Withdrawal from Class
5. Disciplinary Probation
6. Short-Term Suspension
7. Restitution
8. Campus Community Service
9. Withdrawal of Consent to Remain on Campus/ Short-Term Suspension
10. Mental Health Clearance

Appealable Sanctions

1. Suspension
2. Expulsion

The definition, process and implication of each of these are detailed in the District's procedures on "Standards of Student Conduct (§5300)," available in the Student Life office (Room 1425/1426), the Office of the Vice President, Student Services (Room 604), and the Counseling office (Bldg. 400).

Student Disciplinary Procedures: The Vice President, Student Services, or designee administers the disciplinary procedures and is authorized to take appropriate action, subject to the approval of the Superintendent/President and the Governing Board as required in the current District policies and procedures. Disciplinary action taken under these procedures may be taken regardless of anticipated, pending, or completed civil or criminal proceedings arising out of the same act or event.

Copies of the District's current procedures on "Standards of Student Conduct (§5300)" are available free, upon request, from the Office of the Vice President, Student Services (Room 604, Building 600).

Policies and Rights

DRUG- AND SMOKE-FREE CAMPUS

In accordance with *Public Law 101-226, the Drug Free Schools and Communities Act Amendment of 1989*, the Board of Trustees of Solano Community College prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol. District policies for Student Conduct Standards (§5300) prohibit, on college property, or at any college-sponsored event:

- a. 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.
- b. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the Governing Board.

Any student or employee in violation of this policy is subject to disciplinary action up to, and including, expulsion from Solano Community College or termination from employment for violation of the standards of conduct. The decision to take disciplinary action in any instance rests with the Board of Trustees, after consideration of the recommendation of the Superintendent-President of Solano Community College.

The possession, use and sale of alcoholic beverages by anyone on property controlled by Solano Community College, except as authorized under Board Policy (§1120), is a misdemeanor, as per California Business Code (§25608) and a violation of the standards of student conduct. The use, sale or possession of any illegal drug is a violation of State law and any person found in violation may be subject to arrest by Federal, State, local or campus law enforcement authorities. Criminal prosecution is separate from any administrative discipline that may be imposed by the District.

For reasons of health and safety, the Solano Community College District has instituted a Tobacco-Free policy. Tobacco use is prohibited on all District-owned property, including buildings, grounds, and parking lots (Board Policy §4215). It is the responsibility of all students and employees to observe this policy. SCC will follow discipline procedures for those reported to be violators. (This policy does not supersede more restrictive policies that may be in force in compliance with State or Federal regulations.)

For more detailed information and a listing of assistance contact: Student Health Center - Room 1409 Counseling Department - Building 400 Disability Services - Building 400

Transfer

Non-Traditional Learning

CLEP (College Level Entrance Program) Examinations

AP (College Board Advanced Placement) Examinations

IB (International Baccalaureate) Examinations

Credit Transfer of Credit from Other Colleges

Transfer to Four Year Colleges & Universities

California State University Transfer Admission Requirements

University of California Transfer Admission Requirements

Transfer

NON-TRADITIONAL LEARNING

Solano Community College awards non-traditional credit for CLEP (College Level Examination Program), Credit-by- Examination, USAFI/DANTES, formal military service schools, and military service. The maximum credit for all non- traditional credit accepted by Solano Community College may not exceed twenty-four (24) semester units.

Students planning to transfer to a four-year college or university should note that non-traditional credit accepted by Solano Community College may not be acceptable for transfer. Students should check with prospective transfer colleges regarding their policies on non-traditional credit.

Advanced Standing

Students may apply for advanced academic standing through waiver of certain courses as identified by academic schools. To receive course waivers, the student must demonstrate knowledge of the subject to be waived through examination, previous study, or related work experience. Units are not awarded. Students who receive course waivers must complete the minimum number of units for the major and Associate Degree as required by the California Code of Regulations

Credit For Prior Learning

Credit for prior learning may be earned for eligible courses approved by the District for students who satisfactorily pass an authorized assessment. Authorized assessments may include the evaluation of approved external standardized examinations, Joint Services Transcripts, student-created portfolios, and credit-by-examination.

Credit-By-Examination

Credit-by-examination is available for some courses that are not remedial or normally taught at or below the secondary education level. Courses eligible for credit-by-examination have been identified by the appropriate academic school. The amount of credit granted may not exceed the amount listed for the specific course in the college catalog.

To be eligible, the student must

1. be enrolled currently at the College in at least one graded course other than those being taken for credit-by-examination
2. be in good standing (overall 2.0 GPA)

3. have successfully completed, with a minimum grade of C, a minimum of 12 units in residence or will have successfully completed, with a minimum grade of C, a minimum of 12 units by the end of the current semester, exclusive of units to be earned by the credit-by-examination
4. have all prerequisites met or waived by the School Dean

No examination may be repeated. The maximum number of units that may be earned by credit-by-examination is 15.

Students may obtain a copy of the policy and the credit-by-examination petition form online or at an Admissions and Records service counter. The petition must be filed with the Admissions and Records office no later than the fourth week of the semester. If the petition is approved by the School Dean, the student returns the petition to the Admissions and Records office. Eligibility will be checked and payment of a fee for preparation and administration of the exam in the amount of \$20/unit to a maximum of \$120.

Military Transcript Evaluation

Solano Community College, under the DoD Voluntary Education Partnership Memorandum of Understanding, recognizes service members' Military Training for College Credit based on American Council on Education recommendations. Veterans who submit transcripts from either Community College of the Air Force or Joint Services Transcript (Army, Marine Corps, Navy, and Coast Guard) will be granted up to 24.0 units of college elective credit. (**Specialized training may be used to meet degree major requirements by submitting an SCC Substitution Petition. A description of the course/training received is required).

Military Service

Solano Community College will grant six (6) elective units for military service if the person has a) spent at least one year in active service, and b) has received an honorable discharge. Active duty personnel should submit a copy of DD295 and Veterans submit DD214 Member 4 or Copy 2 or Copy 7 with a completed Substitution of Degree Requirements to Admissions and Records for evaluation. These units meet the health and physical education requirements for graduation under Solano Community College General Education, Option A.

Military Service credit is given towards California State University General Education, Option C for Area E with the submission of DD214 Member 4 or Copy 2 or Copy 7.

Transfer

CLEP (COLLEGE LEVEL ENTRANCE PROGRAM) EXAMINATION CREDIT

Solano Community College may award 3 units of college credit for CLEP examination scores of 50 (or otherwise noted) if the examination is compatible with the college's curriculum. Students who have received credit from a CLEP examination should not take the comparable college course as transfer credit will be only be awarded for one. CLEP scores may be used to meet Solano Community College General Education - Option A and California State University (CSU) General Education Breadth - Option C (CLEP cannot be applied to IGETC). For more information contact the Admissions and Records office.

EXAMINATION (Score of 50 unless otherwise noted)	SCC GE AREA	CSU GE (3 semester units)
American Government	2B	D
American Literature	3	C2
Analyzing and Interpreting Literature	3	C2
Biology	1	B2
Calculus	4B	B4
Chemistry	1	B1
College Algebra	4B	B4
College Algebra - Trigonometry	4B	B4
English Literature (prior to F'11 only)	3	C2
French Level II (score – 59)	3	C2
German Level II (score - 60)		C2
History, United States I	2B	D and US-1
History, United States II	2B	D and US-1
Human Growth and Development	5	E
Humanities	3	C2
Introductory Psychology	2A	D
Introductory Sociology	2A	D
Natural Sciences	1	B1 or B2
Pre-Calculus	4B	B4
Principles of Macroeconomics	2A	D
Principles of Microeconomics	2A	D
Spanish Level II (score – 63)	3	C2 or D
Trigonometry	4B	B4
Western Civilization I	2A or 3	C2
Western Civilization II	2A	D

Transfer

AP (COLLEGE BOARD ADVANCED PLACEMENT) EXAMINATION CREDIT

AP EXAMINATION	Score	SCC Course Equivalent	SCC GE	CSU Units Granted	CSU GE	IGETC	UC Units Granted	Limitations of Credit		
ART: Art History	6	ART 001	C	3	C1 or C2 (3 units)	3A or 3B (3 units)	5.3	CSU GE: Only 3 units total may be applied to CSU GE.		
ART: Art History	4, 5	ART 001, 002	C	6			5.3			
ART, Studio: 2D	3,4,5	ART 006	C	3	N/A	N/A	5.3	UC: Maximum credit: 5.3 units for Studio Art, 2D, 3D & drawing exams		
ART, Studio: 3D	3,4,5	ART 008	C	3	N/A	N/A	5.3			
ART, Studio: Drawing	3,4,5	ART 014	C	3	N/A	N/A	5.3			
◇ BIOLOGY	3,4,5	BIO 015	A	6	B2 & B3 (4 units)	5B & 5C (4 units)	5.3	UC: Maximum credit 5.3 units total for both AB & BC exams; 2.6 units for AB & AB subscore.		
CALCULUS AB	3	N/A	D2	3	B4 (3 units)	2A (3 units)	2.6			
CALCULUS AB	4,5	MATH 020	D2	3	B4 (3 units)	2A (3 units)	2.6			
CALCULUS BC	3	N/A	D2	6	B4 (3 units)	2A (3 units)	5.3			
CALCULUS BC	4,5	MATH 020 & 021 or MATH 030	D2	6	B4 (3 units)	2A (3 units)	5.3			
± CALCULUS BC/AB Subscore	3,4,5	MATH 020 or MATH 030	D2	3	B4 (3 units)	2A (3 units)	2.6			
◇ CHEMISTRY	3	CHEM 010	A	6	B1 & B3 (4 units)	5A & 5C (4 units)	5.3	Note: Check with transfer schools for course equivalency in Chem. May not award credit for General Chem.		
◇ CHEMISTRY	4,5	CHEM 001	A	6	B1 & B3 (4 units)	5A & 5C (4 units)	5.3			
COMPUTER SCIENCE A	3,4,5	N/A	D3	3	N/A	N/A	5.3	UC: CS A = 5.3 after F'18. UC Max credit 2.6 units for CS A & AB exams.		
COMPUTER SCIENCE AB	3,4,5	N/A	D3	6	N/A	N/A	2.6			
COMPUTER SCIENCE Principles	3,4,5	N/A	D3	6	B4 (3 units)	N/A	5.3			
ECONOMICS: Macroeconomics	3,4,5	ECON 001	B2	3	D (3 units)	4 (3 units)	2.6			
ECONOMICS: Microeconomics	3,4,5	ECON 002	B2	3	D (3 units)	4 (3 units)	2.6			
ENGLISH: Language & Composition	3,4,5	ENGL 001	D1	6	A2 (3 units)	1A (3 units)	5.3	UC: Max credit 5.3 units for both Engl. Lang/Comp & Engl. Lit/Comp		
ENGLISH: Literature & Composition	3,4,5	ENGL 001	D1 or C	6	A2 & C2 (6 units)	1A or 3B (3 units)	5.3			
◇ ENVIRONMENTAL SCIENCE	3,4,5	BIO 012*	A	4	B1 & B3 (4 units)	5A & 5C (3 units) ◇	2.6	IGETC: Only 3 units apply; need 4 to meet 5A/5C req.		
GOVERNMENT/POLITICS: Comparative	3,4,5	PLSC 002	B2	3	D (3 units)	4 (3 units)	2.6			
GOVERNMENT/POLITICS: US	3,4,5	PLSC 001	B1	3	D & US-2 (3 units)	4 (3 units)	2.6			
HISTORY: European	3,4,5	HIST 004 & 005	C	6	C2 or D (3 units)	3B or 4 (3 units)	5.3	Note: Only 3 units may be applied to CSU and IGETC GE for each exam. Check transfer schools - many will not award two courses for major/course equivalencies.		
HISTORY: United States	3,4,5	HIST 017 & 018	B1	6	C2 or D & US-1 (3 units)	3B or 4 (3 units)	5.3			
HISTORY: Modern World	3,4,5	HIST 002 & 003	C	3	C2 or D (3 units)	3B or 4 (3 units)	5.3			
HUMAN GEOGRAPHY	3,4,5	GEOG 002	B2	3	D (3 units)	4 (3 units)	2.6			
LANGUAGE OTHER THAN ENGLISH:										
Chinese Language/Culture	3,4,5	N/A	C	6	C2 (3 units)	3B & 6A (3 units)	5.3			
French Language/Culture	3,4,5	FREN 003 or 011	C	6			5.3			
French Literature (Prior to F09)	3,4,5	FREN 004	C	6			5.3			
German Language/Culture	3,4,5	N/A	C	6			5.3			
Italian Language/Culture	3,4,5	N/A	C	6			5.3			
Japanese Language/Culture	3,4,5	N/A	C	6			5.3			
Latin	3,4,5	N/A	C	6			2.6			
Latin Literature (Pre 'F09)	3,4,5	N/A	C	6			2.6			
Latin: Vergil (Pre 'F12)	3,4,5	N/A	C	3			2.6			
Spanish Language/Culture	3,4,5	SPAN 002	C	6			5.3			
Spanish Literature/Culture	3	N/A	C	6			5.3			
Spanish Literature/Culture	4,5	SPAN 004	C	6			5.3			
MUSIC THEORY	3,4,5	MUSC 001	C	6			N/A (C1 Prior to F'09)	N/A	5.3	

If a specific AP exam is not listed, acceptance will default to the CSU standard. Consult with a counselor.

Transfer

AP (COLLEGE BOARD ADVANCED PLACEMENT) EXAMINATION CREDIT

AP EXAMINATION	Score	SCC Course Equivalent	SCC GE	CSU Units Granted	CSU GE	IGETC	UC Units Granted	Limitations of Credit
PHYSICS: B (pre F'13)	3,4,5	PHYS 002, 004	A	6	B1 & B3 (6 units)	5A & 5C (4 units)	5.3	CSU GE: 6 units max credit applied to baccalaureate, 4 units max to GE. IGETC: Phys 1 & 2 may apply 4 sem. units to IGETC. Phys C: Elec/Mag and Mech. may only apply 3 units to IGETC – will need to complete at least 4 sem. units to satisfy Area 5A/5C. UC: 5.3 units max combined for all PHYS exams.
◊ PHYSICS: 1	3,4,5	PHYS 002	A	4	B1 & B3 (4 units)	5A & 5C (4 units)	5.3	
◊ PHYSICS: 2	3	N/A	A	4		5A & 5C (4 units)	5.3	
◊ PHYSICS: 2	4,5	PHYS 004	A	4		5A & 5C (4 units)	5.3	
◊ PHYSICS: C (Electricity/Magnetism)	3,4,5	PHYS 007	A	4		5A & 5C (3 units) ◊	2.6	
◊ PHYSICS: C (Mechanics)	3,4,5	PHYS 006	A	4		5A & 5C (3 units) ◊	2.6	
PSYCHOLOGY	3,4,5	PSYC 001	B2	3	D (3 units)	4 (3 units)	2.6	
STATISTICS	3,4,5	MATH 011	D2	3	B4 (3 units)	2 (3 units)	2.6	

NOTES:

- Students may earn associate degree and general education credit for Advanced Placement (AP) Examinations with scores of 3, 4, or 5. Advanced Placement Examinations are noted in the chart below with the specific course credit listed or with the notation of "N/A" where applicable. AP exams not included in the chart may have been exams offered in the past. Consult with a counselor to determine applicability.
- Students must have the College Board send official AP exam results to the Solano Community College Admissions and Records office for use on the associate degree or general education pattern. Please note: Course credit and units granted by Solano Community College may differ from course credit and units granted by a transfer institution.
- A student planning to transfer to a four-year college or university must consult with that transfer institution's catalog and admissions department regarding its awarding of Advanced Placement credit. Credit awarded at Solano Community College for the completion of a local AA/AS degree and general education, CSU general education, and/or IGETC (UC) is as noted above. This is not specific to individual colleges and universities. AP exams may not satisfy the requirements for specific majors at four-year colleges. Please consult with a counselor or a university representative on major specific courses and prerequisites.
- Units awarded for Advanced Placement exams may not be used to meet the residency requirements for the associate degree.

◊ IMPORTANT NOTES ABOUT AP SCIENCES FROM IGETC STANDARDS: AP exams in Biology, Chemistry or Physics 1 and 2 (which replaced Physics B) allow CCC campuses to apply 4 semester or 5 quarter units to IGETC certification. For Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism, 3 semester or 4 quarter units are applied for IGETC certification; therefore, students who complete these exams will be required to complete at least 4 semester or 5 quarter units to satisfy the minimum required units for Area 5. ± Students who take the Calculus BC examination and earn a subscore of 3 or higher on the Calculus AB portion will receive credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination.

* Note that AP Environmental Science may count for BIO 012 for SCC purposes, but will not count for CSU GE Area B2 or IGETC GE Area 5B.

Transfer

IB (INTERNATIONAL BACCALAUREATE) CREDITS

Solano Community College may award college credit for international baccalaureate (IB) course completion with scores of 5, 6, or 7, if the course work is compatible with the college's curriculum. No credit will be granted for lower level course work completed in the IB program. Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both.

International Baccalaureate (IB) Credit for Solano Community College General Education

REQUIRED EXAM SCORE (HIGHER LEVEL EXAMS ONLY) IB SCORE 5-7 unless otherwise noted	SCC GE (3 semester units)	CSU GE Breadth CERTIFICATION (3 semester units*)	IGETC CERTIFICATION (3 semester units*)
BIOLOGY	AREA A	AREA B2	AREA 5B - without lab
CHEMISTRY	AREA A	AREA B1	AREA 5A - without lab
ECONOMICS	AREA B2	AREA D	AREA 4
GEOGRAPHY	AREA B2	AREA D	AREA 4
HISTORY (any region)	AREA C	AREA C2 or D	AREA 3B OR 4
LANGUAGE A Literature CSU GE: SCORE 4; IGETC: Score 5-7	AREA C	AREA C2	AREA 3B and 6A
LANGUAGE A Language and Literature CSU GE: SCORE 4; IGETC: Score 5-7	AREA C	AREA C2	AREA 3B and 6A
LANGUAGE A1 (any language) CSU GE: SCORE 4; IGETC: Score 5-7	AREA C	AREA C2 Removed F'13	AREA 3B
LANGUAGE A2 (any language) CSU GE: SCORE 4; IGETC: Score 5-7	AREA C	AREA C2 Removed F'13	AREA 3B
LANGUAGE B (any language)	AREA C	N/A	AREA 6A
MATHEMATICS CSU GE: SCORE 4; IGETC: Score 5-7	AREA D	AREA B4	AREA 2A
PHYSICS	AREA A	AREA B1	AREA 5A – without lab
PSYCHOLOGY	AREA B2	AREA D	AREA 4
THEATRE	AREA C	AREA C1	AREA 3A

*GE units listed only; total transfer units may be up to 6 (GE units + elective, etc.). Check with transfer university.

1. Only higher level tests accepted for credit.
2. IB credit is not granted for English Composition (ENGL 001) or for the Art Exam.
3. If a student passes more than one test in the same language other than English (e.g., two exams in Spanish), only one exam may be applied.
4. Credit is granted only toward the specific area(s) listed in general education. The units may not apply toward certification of the corresponding GE-Breadth area.
5. Students seeking certification in Language A1 and/or A2 prior to transfer must have passed the test before Fall 2013.
6. The units earned from IB credit cannot be used to satisfy the 12-unit requirement or be applied toward financial aid.
7. Please confer with transfer university admissions representatives for application of units upon transfer.

Transfer

TRANSFER OF CREDIT FROM OTHER COLLEGES

Only those courses from regionally accredited colleges may be accepted for transfer to a degree or certificate program.

Students planning to complete an A.A./A.S. degree or certificate should submit transcripts from other institutions if the units apply toward the degree or certificate requirements. The applicant is responsible for requesting the transcripts be mailed directly to the Admissions and Records office.

TRANSFER TO FOUR-YEAR COLLEGES & UNIVERSITIES

Solano Community College has a long history of preparing students for successful transfer to colleges throughout California and the United States. While it is ultimately the student's responsibility to adhere to transfer admissions requirements and application deadlines, Solano Community College counselors can help students keep up-to-date with the complex array of transfer requirements. To ensure transfer admission, particularly into competitive majors, students should see a counselor early in their educational experience in order to develop an education plan that includes transfer prerequisites.

In addition, students are urged to study the catalogs of the transfer institutions and, if possible, to visit campuses. Detailed transfer information is available in the Counseling and Transfer Centers. Information regarding general education requirements for the California State University system and the University of California system are summarized in this catalog, but students are still urged to obtain regular counselor assistance with transfer education planning.

Transfer Programs

Solano Community College works closely with higher education institutions to create a seamless transition from SCC to the higher education university. While Solano students may apply to any university, the college has particular guaranteed transfer admission programs with some universities. To participate in these programs students must meet specific GPA and course requirements often times associated with their major. The University of California offers a Transfer Admission Guarantee (TAG) to all UC campuses with the exception of UC Berkeley, UC Los Angeles and UC San Diego. Requirements for each campus and major vary.

The California State University system offers guaranteed admission to a CSU campus for students who complete an Associate Degree for Transfer (ADT).

California Community Colleges have transfer agreements with many Historically Black Colleges and Universities (HBCUs). Participating HBCUs guarantee admission to students who have completed the following:

1. An Associate Degree Awarded by a California Community College with a minimum cumulative grade point average (GPA) of 2.5 or higher, that meets any one of the following requirements:
 - a. The degree is an Associate in Arts for Transfer (AA-T) degree or an Associate in Science for Transfer (AS-T) degree. These degrees were designed to provide a clear pathway to a California State University major and baccalaureate degree and they represent strong preparation for upper division coursework in a range of majors.
 - b. The degree includes the completion and certification of the lower division Intersegmental General Education Transfer Curriculum (IGETC) used by California Community College students to prepare to transfer to the University of California and California State University systems.
 - c. The degree includes the completion and certification of the lower division California State University General Education Breadth pattern;

(OR)

2. A minimum of 30 transferrable semester units with a minimum cumulative grade point average (GPA) of 2.5 or higher.

For additional information about any of these programs, please visit the Transfer Center.

Concurrent Enrollment

Concurrent enrollment provides an opportunity for SCC students to take CSU and UC courses for a nominal fee or at no extra charge while enrolled at SCC. Contact a counselor for additional information. For further details, visit www.solano.edu/transfer/.

Transfer

CALIFORNIA STATE UNIVERSITY (CSU) TRANSFER ADMISSION REQUIREMENTS

Lower Division

Students are eligible for admission if they:

- Have a minimum cumulative grade point average of 2.0 in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e., they 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 they had in high school.
- Meet the eligibility index required of a freshman which requires SAT or ACT test scores.

Most CSU campuses do not accept lower division applicants. Students should contact the campus to which they plan to submit an application to determine whether there are limits on admission as a lower division transfer. 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

Students are eligible for admission if they:

- Have completed 60 or more transferable semester college units (90 quarter units).
- Have a college grade point average of 2.0 or better (2.4 for non-California residents) in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e., they are eligible to re-enroll.
- Have completed or will complete prior to transfer at least 30 semester units (45 quarter units) of general education courses with a minimum grade of C. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units (4 quarter units) in transfer level mathematics.

Transfer applicants are required to submit final college transcripts to the CSU prior to attendance in CSU classes. A final review will be done to verify successful completion of the courses. If the student did not complete the courses, the CSU campus may delay or cancel the student's admission or enrollment until the student successfully completes the required courses.

(NOTE: Some CSU campuses will admit transfer students based on courses "in progress," and some will not. Students should contact the specific campus(es) or obtain their published or electronic materials for specific campus information.)

UNIVERSITY OF CALIFORNIA (UC) TRANSFER ADMISSION REQUIREMENTS

Lower Division

Most UCs do not admit lower division transfer students. For information about admissions requirements for lower division transfer students, please visit the admissions website of the campus to which you are interested in applying.

Upper Division

1. Complete 60 semester (90 quarter) units of transferable college credit with a grade-point average of at least 2.4 (2.8 for nonresidents) and no more than 14 semester (21 quarter) units may be taken P/ NP
2. Complete the following course pattern earning a minimum grade of C in each course:
 - Two transferable college courses (3 semester or 4-5 quarter units) in English composition;
 - One transferable college course (3 semester or 4-5 quarter units each) in mathematical concepts and quantitative reasoning;
 - 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
3. Transfer students who apply from California community colleges also have the option of filling lower division breadth requirements by completing the intersegmental General Education Transfer Curriculum (IGETC). This program specifies a series of subject areas and types of courses that, if completed before transfer, will satisfy the lower division breadth and general education requirements at any general campus of UC.

Nonresidents

The minimum admission requirements for nonresident transfer applicants are very similar to those for residents. Consult with the Admissions and Records Office at one of the University campuses for details. In all cases, however, nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system that is different from the course numbers assigned by individual California Community Colleges. A C-ID Designator next to a course means that the course is comparable in content and scope to a course offered by participating California colleges and universities. Thus, if the Solano Community College courses are listed below with a C-ID Designator, students can be assured that the courses will be accepted at a California college or university that offers the courses with the same C-ID Designator.

The C-ID Numbering System is particularly useful for students attending more than one California Community College since C-ID Designators are often applied to courses students need to prepare for transfer.

Solano Community College	C-ID Designator	Solano Community College	C-ID Designator		
ACCOUNTING		CHEMISTRY			
ACCT 001	Financial Accounting	ACCT 110	CHEM 001	General Chemistry	CHEM 110
ACCT 002	Managerial Accounting	ACCT 120	CHEM 001 +	General Chemistry I	
ANTHROPOLOGY		CHEM 002	General Chemistry II	CHEM 120S	
ANTH 001	Introduction to	CHEM 003	Organic Chemistry for Science		
	Biological Anthropology		Majors I, with Lab	CHEM 150	
ANTH 001L	Biological Anthropology Lab	ANTH 110			
ANTH 002	Introduction to	ANTH 115	CHEM 003 +	Organic Chemistry I	
	Cultural Anthropology	ANTH 120	CHEM 004	Organic Chemistry II	CHEM 160S
ANTH 007	Introduction to Archaeology	ANTH 150	CHEM 010	Intermediate Chemistry	CHEM 101
			CHEM 011	Basic Organic Chemistry & BioChemistry	CHEM 102
ART		COMPUTER INFORMATION SCIENCE			
ART 001	Art History	ARTH 110	CIS 020	Assembly Programming	COMP 142
ART 002	Art History	ARTH 120	CIS 021	Discrete Structures	COMP 152
ART 003A	Arts of Asia	ARTH 130	CIS 022	Programming Concepts and Methodology I	
ART 003B	Arts of Africa, Oceania, and the Americas	ARTH 140			COMP 122
ART 004	Life Drawing	ARTS 200	CIS 023	Data Structures and Algorithms	COMP 132
ART 006	Design Principles in 2-Dimensions	ARTS 100	CRIMINAL JUSTICE		
ART 007	Design-Color	ARTS 270	CJ 001	Introduction to	
ART 008	Design Principles in 3-Dimensions	ARTS 101		Criminal Justice	AJ 110
ART 010	Art Appreciation	ARTH 100	CJ 002	Concepts of Criminal Law	AJ 120
ART 011	Survey of Modern Art	ARTH 150	CJ 011	Community and the Justice System	AJ 160
ART 014	Introduction to Drawing	ARTS 110			AJ 140
ART 015	Intermediate Drawing	ARTS 205	CJ 051	Criminal Investigation	AJ 124
ART 016	Beginning Painting	ARTS 210	CJ 053	Legal Aspects of Evidence	AJ 220
			CJ 056	Juvenile Procedures	
ART - DIGITAL		COMMUNICATION STUDIES			
ARTD 044	Introduction to Digital Design	ARTS 250	COMM 001	Public Speaking	COMM 110
BIOLOGY			COMM 002	Introduction to Persuasion	COMM 190
BIO 002	Cell and Molecular Biology	BIOL 190	COMM 006	Argumentation and Debate	COMM 120
BIO 003	Evolution, Ecology & Biodiversity	BIOL 140	COMM 008	Group Communication	COMM 140
BIO 004	Human Anatomy with Lab	BIOL 110B	COMM 012	Intercultural Communication	COMM 150
BIO 005	Human Physiology with Lab	BIOL 120B	COMM 015	Oral Interpretation of Literature	COMM 170
BIOTECHNOLOGY			COMM 050	Forensics (Speech & Debate)	COMM 160B
BIOT 001	Introductory Biology	BIOT 101X	ECONOMICS		
BUSINESS			ECON 001	Principles of Macroeconomics	ECON 202
BUS 005	Introduction to Business	BUS 110	ECON 002	Principles of Microeconomics	ECON 201
BUS 018	Legal Environment of Business	BUS 120	EDUCATION		
CHILD DEVELOPMENT AND FAMILY STUDIES			EDUC 001 +	Introduction to Elementary	
CDFS 038	Child Growth and Development	CDEV 100	OCED 090	Classroom Teaching	EDUC 200
CDFS 050	Child Family and Community	CDEV 110	ENGINEERING		
CDFS 053	Teaching in a Diverse Society	ECE 230	ENGR 001	Introduction to Engineering	ENGR 110
CDFS 054	Child Health, Safety, and Nutrition	ECE 220	ENGR 026	Mathematics and Engineering Problem Solving Using Matlab	ENGR 220
CDFS 062	Principles & Practices of			Statics	ENGR 130
	Teaching Young Children	ECE 120	ENGR 030		ENGR 140 B
CDFS 063	Introduction to Curriculum	ECE 130	ENGR 045	Materials Science and Engineering	
CDFS 064	Observation and Assessment	ECE 200			
CDFS 065	Practicum in Early				
	Childhood Education	ECE 210			

Course Identification Numbering System (C-ID)

Solano Community College	C-ID Designator	Solano Community College	C-ID Designator		
ENGLISH		MATHEMATICS			
ENGL 001	College Composition	ENGL 100	MATH 002	College Algebra for STEM	MATH 151
ENGL 002	Argumentative Writing and Critical Thinking Through Literature	ENGL 110	MATH 011	Introduction to Statistics	MATH 110
ENGL 002	Introduction to Literature	ENGL 120	MATH 020	Single Variable Calculus I Early Transcendentals	MATH 210
ENGL 004	Critical Thinking and Composition: Language in Context	ENGL 105	MATH 021	Single Variable Calculus II Early Transcendentals	MATH 220
ENGL 006	Introduction to Creative Writing	ENGL 200	MATH 022	Analytic Geometry and Calculus III	MATH 230
ENGL 030	Survey of American Literature 1	ENGL 130	MATH 023	Ordinary Differential Equations	MATH 240
ENGL 031	Survey of American Literature 2	ENGL 135	MATH 040	Introduction to Linear Algebra	MATH 250
ENGL 040	Survey of British Literature 1	ENGL 160	MATH 055	Mathematical Concepts for Elementary School Teachers - Number Systems	MATH 120
ENGL 041	Survey of British Literature 2	ENGL 165			
GEOGRAPHY		MUSIC			
GEOG 001	Introduction to Physical Geography	GEOG 110	MUSC 001	Music Theory I	MUS 120
GEOG 001L	Physical Geography, Laboratory	GEOG 111	MUSC 001	Musicianship I	MUS 125
GEOG 002	Introduction to Human Geography	GEOG 120	MUSC 002	Music Theory II	MUS 130
GEOG 004	World Regional Geography	GEOG 125	MUSC 002	Musicianship II	MUS 135
GEOG 006	California Geography	GEOG 140	MUSC 003	Music Theory III	MUS 140
GEOG 010	Introduction to Geographic Information Systems and Techniques, with Lab	GEOG 155	MUSC 003	Musicianship III	MUS 145
			MUSC 004	Music Theory IV	MUS 150
			MUSC 004	Musicianship IV	MUS 155
			MUSC 005	Music Fundamentals	MUS 110
			MUSC 008	Music Appreciation	MUS 100
			MUSC 009	Large Ensemble	MUS 180
			MUSC 010	Large Ensemble	MUS 180
			MUSC 011	Symphonic Band	MUS 180
			MUSC 014	Large Ensemble	MUS 180
			MUSC 015	Large Ensemble	MUS 180
			MUSC 016	Large Ensemble	MUS 180
			MUSC 017	Large Ensemble	MUS 180
			MUSC 020	Large Ensemble	MUS 180
			MUSC 021	Chorus	MUS 180
			MUSC 024	Large Ensemble	MUS 180
			MUSC 025	Large Ensemble	MUS 180
			MUSC 026	Large Ensemble	MUS 180
			MUSC 040A	Applied Music	MUS 160
			MUSC 040B	Applied Music	MUS 160
			MUSC 040C	Applied Music	MUS 160
			MUSC 040D	Applied Music	MUS 160
			NUTRITION		
			NUTR 010	Introduction to Nutrition Science	NUTR 110
			OFFICE TECHNOLOGY/BUSINESS INFORMATION WORKER		
			BSOT 105	Computer Literacy	BSOT 105 X
			BSOT 106	MS Outlook	BSOT 106 X
			BSOT 110	Keyboarding I	BSOT 110 X
			BSOT 111	MS Word I	BSOT 111 X
			BSOT 112	MS Excel I	BSOT 112 X
			BSOT 113	MS Access I	BSOT 113 X
			BSOT 114	MS PowerPoint I	BSOT 114 X
			BSOT 120	Keyboarding II	BSOT 120 X
			BSOT 121	MS Word II	BSOT 121 X
			BSOT 122	MS Excel II	BSOT 122 X
			PHILOSOPHY		
			PHIL 003	Introduction to Philosophy	PHIL 100
			PHOTOGRAPHY		
			PHOT 056	Introduction to Photojournalism	JOUR 160

Course Identification Numbering System (C-ID)

Solano Community College	C-ID Designator	Solano Community College	C-ID Designator
PHYSICAL SCIENCE		SOCIOLOGY	
PHSC 013	Weather and Climate	GEOG 130	SOC 001 Introduction to Sociology
PHSC 013 +	Weather and Climate +		SOC 002 Social Problems
PHSC 014	Atmospheric Science Laboratory	GEOG 130	SOC 040 Introduction to Marriage and Family
PHYSICS			
PHYS 002	General Physics (Non-Calculus)	PHYS 105	
PHYS 004	General Physics (Non-Calculus)	PHYS 110	
PHYS 006	Physics for Science and Engineering: A	PHYS 205	
PHYS 007	Physics for Science and Engineering: B	PHYS 210	
PHYS 008	Physics for Science and Engineering: C	PHYS 215	
POLITICAL SCIENCE		SPANISH	
PLSC 001	Introduction to American Government and Politics	POLS 110	SPAN 001 First Semester Spanish
PLSC 002	Introduction to Comparative Government and Politics	POLS 130	SPAN 002 Second Semester Spanish
PLSC 003	Introduction to International Politics	POLS 140	SPAN 003 Third Semester Spanish
PLSC 004	Introduction to Political Science	POLS 150	SPAN 004 Fourth Semester Spanish
PLSC 006	Introduction to Political Theory	POLS 120	
PLSC 007	Introduction to International Relations	POLS 140	
PSYCHOLOGY		THEATRE ARTS	
PSYC 001	Introductory Psychology	PSY 110	THEA 001 Acting I
PSYC 002	Biological Psychology	PSY 150	THEA 002 Acting II
PSYC 004	Research Methods in Behavioral Science	PSY 200	THEA 003 Stagecraft
PSYC 005	Abnormal Psychology	PSY 120	THEA 006 Introduction to Theatre
PSYC 006	Developmental Psychology	PSY 180	THEA 008 Stage Makeup
PSYC 012	Introduction to Gender	SJS 120	THEA 009 Script Analysis
PSYC 012	Introduction to Gender	SOCI 140	THEA 020 Introduction to Stage Lighting
PSYC 030	Introduction to Social Psychology	PSY 170	THEA 021 Introduction to Theatre Design
SOCIAL JUSTICE STUDIES		THEA 024A Rehearsal and Performance in Production	
SJS 001	Introduction to Social Justice	SJS 110	THEA 024B Rehearsal and Performance in Production
SJS 002	Introduction to Race and Ethnicity	SOCI 150	THEA 024C Rehearsal and Performance in Production
			THEA 024D Rehearsal and Performance in Production
			THEA 027 Technical Theatre in Production
			THEA 027A Technical Theatre in Production
			THEA 027B Technical Theatre in Production
			THEA 027C Technical Theatre in Production
			THEA 027D Technical Theatre in Production
			THEA 032A Fundamentals of Costume Design
			THEA 032C Fundamentals of Costume Design
			THEA 032D Fundamentals of Costume Design
			THEA 047A Technical Theatre in Production
			THEA 047B Technical Theatre in Production
			THEA 047C Technical Theatre in Production
			THEA 047D Technical Theatre in Production

NOTE: This list will change periodically. Consult a counselor or visit <http://www.c-id.net/courses/search> for the most current list of Solano Community College courses with C-ID agreement.

General Education

General Education Philosophy and Criteria

General Education Structure

General Education for the UC and CSU Systems

General Education

General Education Outcomes (GELOs)

Upon completion of Solano Community College's General Education program, a student will demonstrate competency in the following areas:

Communication and Critical Thinking

- SCC-GE, Area D IGETC, Area 1 and 6 CSU-GE, Area A
- Students will develop their writing, listening and speaking skills to communicate effectively
 - Students will engage in critical thinking to analyze problems and consider potential solutions

Scientific Inquiry and Quantitative Reasoning

- SCC-GE, Area A IGETC, Area 2 and 5 CSU-GE, Area B
- Students will engage in scientific inquiry to discover and apply information to the analysis of data and/or scientific phenomena
 - Students will solve problems using appropriate mathematical and/or statistical techniques

Arts and Humanities

- SCC-GE, Area C IGETC, Area 3 CSU-GE, Area C
- Students will exhibit an understanding of the ways in which people in diverse cultures and eras have produced creative works
 - Students will analyze significant events and/or works from the past, including cultural and regional influences
 - Students will create works through diverse forms of expression

Social Sciences

- SCC-GE, Area B IGETC, Area 4 CSU-GE, Area D
- Students will analyze human behavior in a variety of contexts
 - Students will investigate the social, political, economic, historical, geographical, and/or psychological forces that impact individuals, groups, and society

Lifelong Learning and Self Development

- SCC-GE, Local District Requirement CSU-GE, Area E
- Students will demonstrate knowledge of the physical, psychological, cognitive, and/or developmental practices that foster personal well-being and human development

Cross-Cultural Studies

- SCC-GE, Area E
- Students will analyze cross-cultural beliefs, practices, and forms of expression to gain a rich understanding of self and others

GENERAL EDUCATION PHILOSOPHY AND CRITERIA

General education represents the breadth component of a liberal arts education as compared with the in-depth study required for a major. The purpose of this requirement is to give students the opportunity to become acquainted with intellectual, social, and aesthetic perspectives that can form the basis of an expanded plan for lifelong learning and enjoyment. In addition, it is designed to assist students in achieving an expanded context within which to explore their majors so as to enrich these specialized viewpoints. This philosophy is intrinsic to the development of the following basic educational abilities and skills:

- To improve the essential communication skills of speaking, writing, reading, and listening.
- To understand the heritage and culture of one's own society and the society of others.
- To provide opportunities to gain information which could aid students in making realistic career decisions.
- To provide the opportunity for students to achieve competence in mathematics and analytical thinking appropriate to their needs.

- To provide educational experiences for students to gain understanding and appreciation in the basic areas of knowledge: the social and behavioral sciences, the natural sciences, and the humanities which will provide an opportunity for cultural, intellectual and personal growth.
- To develop insight and knowledge in the area of self-understanding.
- To develop the knowledge and understanding of the rights, responsibilities and privileges involved in becoming a participating citizen in a democratic society.
- To develop an understanding of technological developments and the effects these will have on society today and in the future.

General Education

GENERAL EDUCATION STRUCTURE

There are three options available for completing the General Education requirements for the Associate Degree. Requirements for SCC GE, IGETC, and CSU C are as follows:

Solano Community College GE (Local/Non-Transfer)

Cross-Cultural Studies Requirement

The general education requirement for an Associate Degree from Solano Community College includes a 3 unit Cross-Cultural Studies course. Any Cross-Cultural Studies course, either current or future, may be used by students to satisfy this requirement even if that course first appears in a Catalog subsequent to the beginning of the student's course of study.

IGETC (Intersegmental General Education Transfer Curriculum)

To satisfy the general education requirements for the Associate Degree, completion of Intersegmental General Education Transfer Curriculum (IGETC) requirements may be used in lieu of the Solano Community College General Education requirements.

Cross-Cultural Studies Requirement*

At least one of the cross-cultural courses listed on the GE sheet must be completed in order to use this option to fulfill the SCC GE requirement.

CSU-GE Breadth (California State University General Education Breadth)

To satisfy the general education requirements for the Associate Degree, completion of the California State University (CSU) general education breadth pattern may be used in lieu of the requirements listed in SCC GE or IGETC. In order to use this option, courses must be completed with the grades required for admission to the CSU campuses. Meet with a counselor for further information.

Cross-Cultural Studies Requirement*

At least one of the cross-cultural courses listed on the GE sheet must be completed in order to use this option to fulfill the SCC GE requirement:

**Not required if student is completing an ADT.*

GENERAL EDUCATION FOR THE UC AND CSU SYSTEMS

In addition to preparing for their transfer major, students are encouraged to complete the lower division portions of their general education (GE) program as well. These requirements may be met using one of two patterns. The Intersegmental General Education Transfer Curriculum (IGETC) and the California State University General Education Breadth pattern (CSU GE). The IGETC pattern is accepted at both the UC and the CSU to meet lower division GE requirements. All courses used for IGETC must be completed with a minimum grade of C.

California State University General Education Breadth (CSU-GE)

The CSU GE pattern is accepted for lower division general education at the CSU only. Completion of either of these patterns will permit students to transfer to the universities with all of their lower division GE courses completed. Students may also elect to follow the specific general education requirements for the college to which they plan to transfer.

Intersegmental General Education Transfer Curriculum (IGETC)

Completion of the IGETC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower-division general education requirements of the CSU or UC prior to transfer. Students may find it advantageous to take courses fulfilling CSU's general education requirements or those of a particular UC campus. Upon completion of CSU-GE or IGETC, a student must request certification.

GE certification may be verified with a counselor who will confirm that all requirements have been met. To see a list of the courses that meet the IGETC and CSU GE requirements see the forms on the preceding pages. These forms are used by counselors and students to identify appropriate course selection. This does not substitute for counseling advice which includes consideration of many other variables.

NOTE: In recent years, many major programs at the UC and CSU have turned away qualified applicants because of space limitations. Thus, to be competitive, students should endeavor to complete as much of the lower division preparation for their major as possible before transferring and earn stellar grades.

Major preparation gives students the best opportunity to begin upper-level courses as soon as they transfer. Additionally, some majors require that students complete specific courses before they may transfer.

Consult with a counselor to plan course selection.

General Education

UNIVERSITY OF CALIFORNIA GENERAL EDUCATION REQUIREMENTS

The general education requirements are designed to give UC undergraduates a broad background in all major academic disciplines—natural sciences, physical sciences, social sciences, humanities, and fine arts. The general education requirements specify the courses students must take or credit hours they must accumulate in each area.

Each school and college at every UC campus has its own set of requirements. They are described in the campus catalogs and articulation agreements. With careful planning, the student can meet many of the requirements while attending community college. At some campuses and in some majors, transfer students must fulfill all or a portion of the general education requirements before transferring.

Transfer applicants may satisfy lower division general education requirements at any UC campus by completing the Intersegmental General Education Transfer Curriculum (IGETC).

However, some majors and some colleges within a particular UC campus may not accept IGETC. Meet with a counselor for more information. See IGETC - Option B for the specific Solano Community College courses.

Solano Community College GE

Solano Community College General Education (Local/Non-Transfer)

In using this option for the General Education requirement students must complete:

1. A minimum of 21 units with at least 3 units from each Area A, B1, C, D1, D2, and E.
2. The Local District Requirement of Health and Kinesiology.

Note:

- If two courses are selected from the same Area to fulfill the 21 unit requirement, they must have a different course prefix. Exceptions: ENGL and MATH.
- Courses with the same prefix as the student’s major may not be used to fulfill general education requirements. Exceptions: ENGL 001 (Area D1) and MATH (Area D2).

Associate Degree Requirements using SCC GE (Local/Non-Transfer)

An Associate Degree will be awarded when the following requirements have been completed:

- A minimum total of 60 degree applicable units
- Major Requirements (See SCC Degrees)
- SCC General Education Requirements
- Electives as needed to reach 60 units (any course (001-199))
- 2.0 overall grade point average at time of graduation
- 12 units at Solano Community College with a minimum grade of C

Area A – Natural Sciences

- Complete a minimum of 3 units

A – Natural Sciences

ANTH 001, 001L	GEOL 001, 005
ASTR 010, 030, 040	HORT 050,
BIO 002, 003, 004, 005, 012, 014, 015, 016, 018, 019, 020, 025	NUTR 010
CHEM 001, 002, 003, 004, 010, 011, 012, 160	PHSC 012
ENGR 030	PHYS 002, 004, 006, 007, 008, 010
GEOG 001	

Please see a counselor for fillable General Education Sheet and for additional information and guidance.

Visit in-person at Building 400, Room 404, of the Main Campus (Fairfield)

Phone: (707) 864-7101

Email: counseling@solano.edu

Website: solano.edu/counseling



Area B – Social and Behavioral Studies

- Complete a minimum of 3 units from B1

B1 – Social and Behavioral Studies

HIST 017, 018, 028, 029, 037*

PLSC 001, 002, 003, 004, 005

SOC 002

B2 – The following courses do not fulfill the Area B Requirement, but may be used to meet the minimum 21 unit GE requirement

ANTH 002, 007

JOUR 011

CDFS 038, 040, 050, 053*, 054, 070

LR 010

CJ 001

PLSC 002, 003, 006, 016, 019

COMM 012

PSYC 001, 002, 004, 005, 012, 020, 030

COUN 005, 015, 023, 058

SJS 030

ECON 001, 002

SOC 001, 023

GEOG 002, 004, 006

Area C – Humanities

- Complete a minimum of 3 units

C – Humanities

ART 001, 002, 003A, 003B, 010, 011, 012, 30B

ASL 001, 002

CINA 010, 011

COMM 015

ENGL 002, 018, 021, 023, 024, 030, 031, 040, 041, 044, 058

FREN 001, 002, 003, 004, 011, 031, 032

HIST 002, 003, 004, 005

HUMN 001, 002, 003*

MUSC 005, 007, 008, 009, 010, 011, 013, 014, 015, 017, 020, 021, 024, 025, 026

PHIL 003, 004, 005

PHOT 035

SPAN 001, 002, 003, 004, 031, 032, 033, 034

THEA 006, 010, 011, 013*

TV 050

SCC GE
Local/Non-
Transfer

Area D – Language and Rationality

- Complete a minimum of 3 units from each Area D1 and D2
- Must be completed with a minimum grad of C or a P if course is taken
On a Pass/No Pass basis

D1 – Language

ENGL 001

D2 – Rationality

MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 104, 112

D3 - The following courses do not fulfill the Area D Requirement, But may be used to meet the minimum 21 unit GE requirement

CIS 001, 020, 023

COMM 001, 002, 006, 010, 060

ENGL 004

LR 010

PHIL 001, 005

Area E – Cross Cultural Studies

- Complete a minimum of 3 units

E – Cross Cultural Studies

ART 012 ENGL 036 PSYC 007

CDFS 053 HIST 037 SJS 002

CINA 011 HUMN 003 THEA 013

COMM 012 MUSC 013

COUN 015 PLSC 005

Local District Requirement – Health and Kinesiology

- Choose one of the following Options
 - a) Two **KINE** or **DANC** activity courses
 - b) Two **ATHL** intercollegiate athletics courses
 - c) One **KINE** or **DANC** activity courses and one **ATHL** intercollegiate athletics course
 - d) **DD214** (military experience)
 - e) One of the following courses:
 - **HED** 002, 003
 - **KINE** 020A, 020V, 020W, 057
- **"A" within General Education area of course description indicates activity or intercollegiate Athletics courses from Option a and b above

ALL REFERENCES TO UNITS ARE SEMESTER UNITS

SCC GE
Local/Non-
Transfer

Intersegmental General Education Curriculum

Intersegmental General Education Curriculum – IGETC

IGETC is a series of courses that allows community college transfer students to fulfill lower-division general education requirements either at the UC or the CSU system. The IGETC pattern is most useful for students who want to keep their options open before making a final decision about transferring to a particular UC or CSU campus. Completion of IGETC does not guarantee admission, nor is it generally required for admission. IGETC is not appropriate for some majors.

The Transfer Studies with IGETC Emphasis Certificate of Achievement may be achieved upon successful completion of the CSU Pattern.

Associate Degree Requirements

An Associate Degree will be awarded when the following requirements have been completed:

- A minimum total of 60 degree applicable units
- Major Requirements (See SCC Degrees)
- IGETC Requirements
- Electives as needed to reach 60 units (any course (001-099))
- 2.0 overall grade point average at time of graduation
- 12 units at Solano Community College with a minimum grade of C
- All courses must be completed with a minimum grade of C and must be IGETC approved at time of completion

Area 1 – English Communication

- CSU – Complete 1 course from each 1A, 1B, and 1C
- UC – Complete 1 course from 1A and 1B

1A English Composition

ENGL 001

1B Critical Thinking

ENGL 002, 004

1C Oral Communication (CSU only)

COMM 001, 002, 006

Please see a counselor for fillable General Education Sheet and for additional information and guidance.

Visit in-person at Building 400, Room 404, of the Main Campus (Fairfield)

Phone: (707) 864-7101

Email: counseling@solano.edu

Website: solano.edu/counseling

Area 2 – Mathematical Concepts and Quantitative Reasoning

- Complete 1 course

2 Mathematical Concepts and Quantitative Reasoning

CIS 021

MATH 002+, 004+, 011, 012, 020+, 021+, 022+, 023+, 030+, 031+, 040

Area 3 – Arts and Humanities

- Complete 3 courses. A minimum of 1 course from each 3A and 3B

3A Arts

ART 001, 002, 003A, 003B, 010, 011, 012, 30B, 030C

CINA 010, 011

DANC 004

MUSC 005+, 007, 008, 013

PHOT 035

THEA 006, 009, 010, 011, 013

3B Humanities

ASL 005

DANC 004

ENGL 018, 021, 023, 024, 030, 031, 036, 040, 041, 044

ENGR 003

FREN 002, 003, 004, 011, 012

HIST 002*, 003*, 004*, 005*, 010*, 017*, 018*, 028*, 029*, 031*, 037*

HUMN 001, 002, 003

PHIL 003, 004, 006*

PLSC 006*

SPAN 002+, 003, 004, 011, 033+, 034+

IGETC

* May be used in only one area 3B or 4;

+ Indicates that transfer credit may be limited by either UC or CSU or both.

Area 4 – Social and Behavioral Sciences

- Complete 3 courses from at least 2 different disciplines

4 Social and Behavioral Sciences

ANTH 002, 007	JOUR 011
CDFS 038, 040	PHIL 006*
CJ 001	PLSC 001, 002, 003, 004, 005 006*, 007, 016, 019
COMM 012	PSYC 002, 004, 005, 006, 007 012, 020, 030, 034
COUN 015, 023	SJS 001, 002, 030
ECON 001, 002	SOC 001, 002, 023, 040, 045
GEOG 002, 004, 006	
HIST 002*, 003*, 004*, 005*, 010*, 017*#, 018*#, 028*#, 029*#, 031*, 037*#	

Area 5 – Physical and Biological Sciences

- Complete 1 course from each 5A and 5B
- One course must include a lab
- 5C – may be used to complete the lab requirement; the corresponding lecture course must be completed prior to or concurrently with the lab
- (L) = Lab course

5A Physical Science

ASTR 010, 030+, 040+, 045
CHEM 001(L), 002(L), 003(L), 004(L), 010(L)+, 011(L)+, 012(L)+
ENGR 045(L)
GEOG 001
GEOL 001, 005, 006
PHSC 012(L)+, 013, 015, 016
PHYS 002(L)+, 004(L)+, 006(L)+, 007(L)+, 008(L)+, 010+

5B Biological Science

ANTH 001
BIO 002(L), 004(L), 005(L)+, 012, 014(L), 015(L)+, 016+, 018, 019(L), 020, 025
BIOT 001

5C Lab

ANTH 001	ASTR 020	BIO 012L+, 016L+	GEOG 001L	GEOL 002, 006L
PHSC 014				

* May be used in only one area 3B or 4;
+ Indicates that transfer credit may be limited by either UC or CSU or both.

IGETC

Area 6 – Language Other Than English

- Complete 1 course
- or proficiency equivalent to 2 years of high school courses in the same language

Area 6 – Language Other Than English (UC Only)

ASL 001, 002, 003, 004

FREN 001, 002, 003, 004, 032

SPAN 001, 002+, 003, 004, 011, 032, 033+, 034+

CSU Graduation Requirement in American Institutions

- Not part of IGETC, May be completed prior to transfer
- Complete 1 course from each CSU 1 and CSU 2
- Courses may be used in Area 3B and/or 4

CSU 1

PLSC 001, 005

CSU 2

HIST 017, 018, 028, 029, 037

SCC Cross-Cultural Graduation Requirement

- Complete 1 course which may be used in one other Area
- Exempt if earning an A.A.-T or A.S.-T

SCC

ART 012

COUN 015

MUSC 013

THEA 013

CDFS 053

ENGL 036

PLSC 005

CINA 011

HIST 037

PSYC 007

COMM 012

HUMN 003

SJS 002

IGETC

* May be used in only one area 3B or 4;

+ Indicates that transfer credit may be limited by either UC or CSU or both.

CSU General Education-Breadth

California State University General Education Breadth – CSU GE-Breadth

The CSU GE-Breadth is a series of courses that California Community College (CCC) students may complete to satisfy the lower-division breadth/general education requirements before transferring to the California State University. The CSU GE-Breadth pattern is certified by the CCC and accepted by all CSU campuses.

The Transfer Studies with CSU GE Emphasis Certificate of Achievement may be achieved upon successful completion of the CSU Pattern.

Associate Degree Requirements

An Associate Degree will be awarded when the following requirements have been completed:

- A minimum total of 60 degree applicable units
- Major Requirements (See SCC Degrees)
- CSU General Education-Breadth Requirements
- Electives as needed to reach 60 units (any course (001-099))
- 2.0 overall grade point average at time of graduation
- 12 units at Solano Community College with a minimum grade of C

Area A – English Language Communication and Critical Thinking

- Complete 1 course from each A1, A2, and A3
- Must be completed with a minimum grade of C

A1 Oral Communication

COMM 001, 002 006

A2 Written Communication

ENGL 001

A3 Critical Thinking

PHIL 001, 005

ENGL 002, 004

Please see a counselor for fillable General Education Sheet and for additional information and guidance.

Visit in-person at Building 400, Room 404, of the Main Campus (Fairfield)

Phone: (707) 864-7101

Email: counseling@solano.edu

Website: solano.edu/counseling

* May be used in only one area; # Meets CSU Graduation requirement.
+ transfer credit may be limited by either UC, CSU, or both.

Area B – Scientific Inquiry

- Complete 1 course from each B1 and B2
- One course must include a lab
- B3 – corresponding lab associated with B1/B2 lecture course may be used to satisfy the lab requirement
- (L) = Lab course

B1 Physical Science

ASTR 010, 030, 040, 045

CHEM 001(L), 002(L), 003(L), 004(L), 010(L), 011(L), 012(L)

ENGR 045(L)

GEOG 001, 010

GEOL 001, 005, 006, 010

PHSC 012(L), 013, 015, 016

PHYS 002(L), 004(L), 006(L), 007(L), 008(L), 010

B2 Life Science

ASTR 010, 030, 040, 045

CHEM 001(L), 002(L), 003(L), 004(L), 010(L), 011(L), 012(L)

ENGR 045(L)

GEOG 001, 010

GEOL 001, 005, 006, 010

PHSC 012(L), 013, 015, 016

PHYS 002(L), 004(L), 006(L), 007(L), 008(L), 010

Area B – Quantitative Reasoning

- Complete 1 course with a minimum grade of C

B4 Mathematics

MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 049, 051, 055

CSU General Education- Breadth

* May be used in only one area; # Meets CSU Graduation requirement.
+ transfer credit may be limited by either UC, CSU, or both.

Area C – Arts and Humanities

- Complete 3 courses. A minimum of 1 course from each C1 and C2

C1 Arts

ART 001, 002, 003A, 003B, 010, 011, 012, 30B, 030C

CINA 010, 011

DANC 004, 004N

MUSC 005, 007, 008, 013, 045

PHOT 031, 035

THEA 001, 002, 006, 009, 010, 011, 013

C2 Humanities

ASL 001, 005, 006

ENGL 006, 007, 018, 021, 023, 024, 030, 031, 036, 040, 041, 044, 058

FREN 001, 002, 003, 004, 011, 012, 031, 032

HIST 002+, 003*, 004*, 005*, 010*, 017*#, 018*#, 028*#, 029*#, 031*, 037*#

HUMN 001, 002, 003

PHIL 003, 004

SPAN 001, 002, 003, 004, 011, 031, 032, 033, 034

Area D – Social Sciences

- Complete 2 courses

D Social Sciences

ANTH 002, 006, 007

CDFS 038, 040, 050, 053, 070

CJ 001

COMM 012

COUN 015, 023

ECON 001, 002

GEOG 002, 004, 006

HIST 002*, 003*, 004*, 005*, 010*,
017*#, 018*#, 028*#, 029*#,
031*, 037*#

HS 001

JOUR 011

PHIL 006

PLSC 001, 002, 003, 004, 005

006, 007, 016, 019

PSYC 001, 002, 004, 005, 006

007, 012, 020, 030, 034

SJS 001, 002, 030

SOC 001, 002, 023, 040, 045, 075

TV 050

* May be used in only one area; # Meets CSU Graduation requirement.
+ transfer credit may be limited by either UC, CSU, or both.

CSU
General
Education-
Breadth

Area E - Lifelong Learning and Self Development

- Complete 3 semester units with no more than 1 unit of physical activity; or
- DD214 Military Experience

E Lifelong Learning and Self Development

ATHL	001, A, B 002A-E	003, A, B 004, A, B	010, A 015, A, B	016A,B 022, A, B	025 050A, B
BIO	018	CDFS	038, 040, 050, 054, 070	COUN	005, 007, 058, 098
DANC	004A-D, F, H, J, K, M, N, P, S, T			HED	002, 003
KINE	002A,B,D 003A,D, E	005C-E,J,K,M,N,Q-S 006A,C,E,F	007D-G 008A,B,D-F	009A-C,E-H,P 020V, W	078
NUTR	010, 054	PSYC	006, 020, 034	SPMD	071

Area F – Ethnic Studies

Beginning Fall 2021, new and returning students must complete this lower-division, 3 semester unit requirement. Solano Community College will begin offering courses in this area Fall 2022. *Please see a counselor for further information.*

CSU Graduation Requirement in American Institutions

- May be completed prior to transfer
- Complete 1 course from each CSU 1 and CSU 2
- Courses may be used in Area C2 and/or D

CSU 1

PLSC 001, 005

CSU 2

HIST 017, 018, 028, 029, 037

SCC Cross Cultural Graduation Requirement

- Complete 1 course which may be used in one other Area
- Exempt if earning an A.A.-T or A.S.-T

SCC

ART	012	COUN	015	MUSC	013	THEA	013
CDFS	053	HIST	037	PLSC	005		
CINA	011	ENGL	036	PSYC	007		
COMM	012	HUMN	003	SJS	002		

* May be used in only one area; # Meets CSU Graduation requirement.
+ transfer credit may be limited by either UC, CSU, or both.

CSU
General
Education-
Breadth

Graduation Requirements

Degrees and Certificates

Program Requirements

Petitioning for a Degree or Certificate

Graduation Ceremony

Graduation Requirements

DEGREES AND CERTIFICATES

Job-Direct Low Unit Certificates

Many Job-Direct certificate programs are offered specifically designed to prepare students for employment in the identified field. Not all credits earned in the Job-Direct certificate programs may be counted toward the A.A./A.S. degree or the Certificate of Achievement. Counselors, faculty, and administrators are glad to answer any questions about these programs. Requirements for the programs are listed in the corresponding sections of this catalog.

Certificates of Achievement

A Certificate of Achievement recognizes a student's satisfactory completion of an organized program of study. A number of certificate programs are offered for students seeking specialized training in specific fields. Students are required to complete each course within the program with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis) and to maintain a grade point average of 2.0 in program coursework. Certificate of Achievement programs differ from degree programs in that students are only required to complete the courses in the field of study; general education coursework is not required. All credits earned in a certificate program may be counted toward the A.A./A.S./AD-T Degree and, in some instances, credit for certificate courses may be transferred to four-year colleges.

To be eligible for a Certificate of Achievement, a minimum of 6 units in the field or a closely related subject must be successfully completed, with a minimum grade of C, at Solano Community College

Students may be awarded a Certificate of Achievement based on the requirements in this Catalog, or the Catalog in effect at the time of first enrollment, or when the certificate was first offered.

Associate Degrees

Solano Community College offers two Associate degrees: Associate in Arts and Associate in Science. A degree may be granted upon successful completion of requirements in a major field of study, appropriate general education courses, and electives to total at least 60 semester units. Students must petition for degrees and may apply for multiple degrees.

Associate Degrees for Transfer (AD-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an associate degree for transfer (AD-T). These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree.

California Community College students who are awarded an A.A.-T or A.S.-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.

In order to earn one of these degrees, students must successfully complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students who have been awarded an A.A.-T or A.S.-T are able to complete their remaining requirements for the 120- unit baccalaureate degree within 60 semester units or 90 quarter units.

To view the most current list of Solano Community College Associate Degrees for Transfer go to www.solano.edu. For additional information on Associate Degrees for Transfer, visit adegreewithaguarantee.com or the new website starting in June 2021 icangotocollege.com.

This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Students expecting to complete an ADT degree should be sure to have indicated so when applying to transfer to a CSU. Students must petition for the degree at Solano Community College Admissions and Records office. If the date falls on a weekend/holiday, then the deadline is the next business day.

Graduation Requirements

PROGRAM REQUIREMENTS

Program Length

Most degree programs at Solano Community College can be completed in two years, assuming students take an average of 15 units per term. Certificate programs vary in length; most certificate programs require less than two years of full-time study to complete and many programs may be completed on a part-time basis. Students are advised to meet with a counselor to develop an educational plan as not all courses are offered every term.

Total Units

A degree requires a minimum of 60 degree-applicable semester units. A minimum of 12 units must be successfully completed, with a minimum grade of C, at Solano Community College. The student must have a 2.0 overall grade point average at the time of graduation.

Major and Area of Emphasis

A minimum of 18 semester units must be concentrated in a designated field of study, as outlined in one of the two-year degree programs. All courses in the major or area of emphasis must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Catalog Rights

Graduation requirements are determined according to the Catalog in effect at the time of first enrollment at SCC. If enrollment is in any credit course and is continuous (at least one course is taken each academic year), then graduation requirements are taken from the Catalog in effect at the time of first enrollment. Students enrolled at another regionally accredited institution of higher education and meeting the SCC definition of continuous enrollment shall not lose their original catalog rights. In order to maintain catalog rights, enrollment must begin with Solano Community College. Students may select a more recent catalog for catalog rights. The requirement for continuous enrollment to maintain catalog rights was implemented in academic year 1990-91. Students with catalog rights prior to this are not required to maintain continuous enrollment to maintain their original catalog rights. These students may still elect a more recent catalog.

PETITIONING FOR A DEGREE OR CERTIFICATE

In order to receive a Degree and/or Certificate from Solano Community College it is the students' responsibility to file a completed Petition for Degree or Certificate with the Admissions and Records office during the last semester of attendance.

Petitions are accepted beginning the first day of each term through a date that is set and published in the MySolano Dates and Deadlines each term. NO PETITIONS ARE ACCEPTED AFTER THE DEADLINE.

Petitions are reviewed by Admissions and Records and students are notified of the outcome up to 3 months after the term ends. For more information or answers to questions email admissions@solano.edu.

GRADUATION CEREMONY

SCC holds a graduation ceremony once a year at the end of the spring term. Students who were awarded degrees and/or certificates in the previous summer and fall and who petitioned in spring are encouraged to walk in the graduation ceremony.

Students who were awarded degrees and/or certificates in the prior summer or fall and who petitioned in spring will be sent information regarding graduation ceremony participation mid-way through the spring term from the Student Life office.

Students should direct additional questions regarding the graduation ceremony participation to the Student Life office. For more information, visit www.solano.edu/graduation.

For more information or answers to questions email admissions@solano.edu.

Announcement of Course & Course Numbers

COURSE NUMBERING SYSTEM

The following numbering system indicates transferability, credit or noncredit status and other related information. For specific transfer information, students should consult a counselor and refer to the catalog of the prospective transfer institutions

Credit Courses: Courses numbered 001-499 are graded courses authorized by the Governing Board of Solano Community College. All courses are not offered every year. Courses offered depend on prospective enrollment, the availability of instructors, and physical facilities. Prospective students should consult the current Schedule of Classes for information on course offerings for a specific semester.

Noncredit Courses: The courses numbered 500-599 are offered on a noncredit basis. Regular attendance and participation are required. No grades or college credit are issued. Contact the Admissions and Records office or see the Schedule of Classes for current offerings.

COURSE NUMBERS

001-099	Qualify for the A.A./A.S. Degree; transferable to four-year institution
100-199	May qualify for the A.A./A.S. Degree but, generally, do not transfer to four- year institutions. Some courses may be used to meet requirements in certain majors at some four-year institutions.
200-299	Vocational, credit courses which DO NOT apply to the A.A./A.S. Degree and do not transfer to four-year institutions.
300-399	Credit courses which DO NOT apply to the A.A./A.S. Degree. Exception: One English course one level below ENGL 001 which may be applied to the Associate Degree as an elective and one elementary algebra course which may be used as an elective. These courses do not transfer to four- year institutions
400-499	Upper division courses that apply to the Biomanufacturing Baccalaureate Degree.
500-599	Non-credit courses.

The college reserves the right to cancel any class which does not meet the minimum enrollment requirements and whenever there are unexpected staffing or facility situations that cannot be satisfactorily resolved.

Special Courses and Programs

Air Force ROTC – Air Force (CSUS)

Career and Technical Education

Gainful Employment Programs

Workforce Development Intercollegiate Athletics

Independent Study and Honors

Occupational Education – Work Experience

Online and Hybrid Classes Short Term Classes

Special Courses and Programs

AIR FORCE ROTC - AIR FORCE (CSUS)

www.csus.edu/afrotc

det88recruiting@gmail.com

**AFROTC, California State University, Sacramento,
Department of Aerospace Studies, Yosemite Hall**

(916) 278-7315

Air Force Reserve Officer Training Corps (AFROTC) is available to Solano Community College students through a program offered at California State University, Sacramento (CSUS). The CSUS Department of Aerospace Studies offers three- or four-year programs leading to a commission in the United States Air Force. All coursework is completed at CSUS.

Scholarships are available to qualified students. Application to the program is typically completed not later than the first semester of the sophomore year, but juniors may apply under certain conditions.

Upon completion of all the program requirements for a Bachelor's degree, cadets are commissioned second lieutenants in the Air Force and serve a minimum of four years on active duty.

CAREER AND TECHNICAL EDUCATION

The college encourages CTE students to plan, with counselor assistance, a course of study which will prepare the student for a career. Educational programs in this area offer a planned curriculum which can lead to either a certificate, an Associate degree, or transfer to a four-year college. Although many four-year colleges give full or partial credit for some specialized CTE courses, these programs are not primarily designed to satisfy transfer requirements. The student planning a Career and Technical Education major and wishing to transfer to a four-year college should plan a transfer program with the assistance of a college counselor.

GAINFUL EMPLOYMENT PROGRAMS

Gainful Employment programs include all programs at public and not-for-profit institutions that do not lead to a degree, that are not fully transferable to a bachelor's degree program or that are not considered to be basic skills or preparatory course work for enrollment in an eligible program.

Recognized Occupations are those identified by a federal Standard Occupational Classification (SOC) code established by the Office of Management and Budget, by an Occupational Network (O*NET-SOC) code established by the U.S. Department of Labor, or those determined by the Secretary of Education in consultation with the U.S. Secretary of Labor.

WORKFORCE DEVELOPMENT

Solano Community College staff work closely with local business, industry, and advisory groups to design occupational programs that meet the needs of employers and residents in Solano County.

Experienced workers can upgrade skills and knowledge or enter a new field. In some areas, it is possible to enter a new field and get a certificate in a year or less. An associate degree can take two years or longer depending upon the field and the student's prior education. Many courses and programs are transferable to four-year institutions.

Equal access in occupational training through our career technical education (CTE) programs is provided for all students regardless of race, handicap, national origin, age or gender. Solano Community College career technical education (CTE) programs encourage women and men to enter non-traditional fields for their gender.

INDEPENDENT STUDY AND HONORS COURSES

Students in good standing at Solano Community College may pursue their studies and research beyond courses listed in the Catalog through Independent Study and Honors courses. Units taken may not be transferable. Students should consult with a counselor regarding a specific college or university's acceptance of these units.

The course(s) consist of regular meetings with the instructor; examinations or other measures of evaluation, field trips, term papers, and assignments may be required.

Independent Study and Honors is an opportunity for students to extend classroom experience in a specific subject, while working independently of a formal classroom situation. Independent study and Honors courses cannot be used to repeat or to substitute for an existing SCC course.

To be eligible for independent study, students must have successfully completed 12 units of college credit, including 4 units from within the discipline. To be eligible for honors, students must have completed 24 units of college credit with a minimum GPA of 3.3; and a minimum of 6 units in the discipline with a minimum grade of B.

Independent Study or Honors Course Process:

- Discuss educational plan and the transferability of the course with a counselor.
- Discuss the option of an independent study or honors course with an instructor in the discipline.
- If the instructor agrees to supervise this course, the student and the instructor will complete a contract.

Special Courses and Programs

- The instructor will route the contract for the necessary approval.
- If the Contract receives final approval, Admissions and Records will add the class to the student's schedule and contact them by way of email to pay the enrollment fees.
- The completed contract must be filed by the deadline published in the class schedule in the semester in which the study is to be completed.
- At the end of the semester the student will receive a grade.

OCCUPATIONAL EDUCATION – WORK EXPERIENCE

Occupational Education is an experiential, academic program which allows students in paid or unpaid positions to apply what they have learned in the classroom to a work environment. In conjunction with their Work Experience weekly orientation course, students may earn units working in a part-time or full-time position with a licensed business. Students may brush up on soft skills or create a career portfolio - no job required. *Note: See the Occupational Education program page for specific work experience courses.*

ONLINE AND HYBRID CLASSES

Solano Community College offers two types of Internet classes for credit: online and hybrid classes. Online classes are taught over the Internet and hybrid classes are taught partly over the Internet and partly in the classroom. These classes have regular assignment schedules and reading material and the same learning requirements as traditional classes.

Participation in online sections and hybrid sections requires that students have a computer with Internet access and a web browser. The individual classes will also have additional requirements such as a textbook and possibly a specific software program to be used. A student may also have to come to campus for a required in-person exam or orientation. Online sections are coded as ONLN, OVJO, and OVV.

ONLINE: These classes utilize the Internet and Canvas, our course management system, to create an educational experience that can be partly independent of time and place. Students still purchase textbook(s) and take tests and meet due dates, but they do the majority if not all of the class work at any computer connected to the Internet. Within the semester structure and set deadlines, students complete work according to their own schedule, at home, in the office, or on open access computers on campus in the library. Course materials, the syllabus, assignments, tests, and links to other Web resources are contained within Canvas. Students communicate with their instructor, and each other, by sending and receiving email and by participating in "threaded discussions." These are discussions that continue over time where students drop in to read the comments and to add their own. While online classes may not be for everyone, they are well-suited to students who are self-motivated, who have access to a computer, who may have busy daytime schedules, and who may not be able to travel to campus for classes with specific meeting times.

HYBRID: These classes use a combination of the face-to-face and online formats. Some activities will be conducted in a group (traditional class) format and some activities are conducted online through Canvas. These classes offer the best of both worlds - flexibility with the online portion and the sense of being in a group with a traditional class meeting and face-to-face instruction.

SHORT-TERM COURSES

Solano Community College offers some short-term courses with flexible schedules which enable students to continue to work while they upgrade skills and obtain the knowledge needed to qualify for career advancement or change.

Intercollegiate Athletics



The Intercollegiate Athletics Program is governed by the California Community College Athletics Association. Solano Community College is a member of the Bay Valley Conference and participates in a number of men's and women's intercollegiate sports.

To practice and participate, student athletes must enroll in the corresponding ATHL course and present evidence from a physician that they are physically fit to participate in an intercollegiate athletic activity. To be eligible, student athletes must be continuously enrolled in a minimum of 12 units during the semester of competition. For the second year of competition, the student athlete must have completed 24 units between seasons of competition with a minimum 2.0 grade point average. All athletes must have an educational plan on file with the athletic counselor and must be enrolled in at least 9 of their 12 mandatory units toward their educational plan. Additional eligibility information may be obtained from the Athletic Director or respective Solano Community College coach.

Intercollegiate athletic sports and corresponding courses offered are:

MEN'S

- Baseball (Spring) - ATHL 015
- Basketball (Fall) - ATHL 016A/(Spring) - ATHL 016B

WOMEN'S

- Basketball (Fall) - ATHL 002A/(Spring) - ATHL 002B
- Soccer (Fall) - ATHL 004
- Softball (Spring) - ATHL 003
- Volleyball (Fall) - ATHL 001

MEN'S/WOMEN'S

- Swimming/Diving (Spring) - ATHL 010
- Tennis (Spring) - ATHL 022

COMMUNITY COLLEGE PATHWAY TO LAW SCHOOL INITIATIVE (CCPLS)

The Community College Pathway to Law School (CCPLS) Initiative is the first and only of its kind to provide a clear pathway from community college to law school.

The CCPLS Initiative is the product of the visionary leadership of the California State Bar's Council on Access and Fairness (COAF). As a participating institution in the initiative, Solano Community College (SCC) has developed special partnerships with six top rated undergraduate and law school programs: **UC Davis, UC Irvine, USF, Santa Clara University, Loyola Marymount and USC**. Students taking part in the CCPLS program and successfully completing the initiative will be eligible to take advantage of these partnerships towards the goal of achieving a legal education.

Students apply to participate in the program. Upon admittance to the program participating students will be identified as "CCPLS / COAF Scholars" and must complete a seven (7) course core sequence and participate in activities sponsored by the CCPLS Initiative.

The curriculum and law related events build necessary skills to increase competitiveness at the next level of academia.

Upon successful completion of the undergraduate program CCPLS / COAF scholars will be eligible for admission to one of the law school programs partnering with the initiative.



**For information on the Community College
Pathway to Law School Initiative,
please email the program at CCPLS@Solano.edu.**

Program Degrees and Certificates

	Associate Degree	Certificate of Achievement	Job Direct Certificate
Accounting*	✓	✓	
Account Clerk			✓
Advanced Manufacturing			
Automation Technology*	✓	✓	
Maintenance Technician		✓	
Mechatronics*	✓	✓	
Aeronautics			
Airframe Maintenance Technician*	✓	✓	
Powerplant Maintenance Technician*	✓	✓	
Airframe & Powerplant Maintenance Technician*	✓	✓	
American Sign Language			
ASL/English Interpreter Training*	✓	✓	
Anthropology	+		
Art			
Art History	+		
Graphic Design & Illustration*	✓		
Studio Arts	+		
Studio Arts with Emphasis	✓		
Astronomy	✓		
Automotive			
Automotive Technician*	✓		
Automatic Transmissions and Transaxles*		✓	
Electrical and Body Systems*		✓	
Maintenance and Light Repair*		✓	
Biology	✓+		
Biomedical Sciences	✓	✓	
Biomufacturing Bachelor of Science*			
Biotechnology			
Biotechnology Laboratory Assistant*		✓	
Industrial Biotechnology*	✓	✓	
Stem Cells/Cell-Based Technologies*		✓	
Business	✓		
Administrative Assistant*	✓	✓	
Business Administration	+		
Business Insurance: Property & Casualty*	✓	✓	
Insurance Specialist			✓
Management*	✓	✓	
Retail Management*	✓	✓	
Small Business Management*	✓	✓	
Marketing*	✓	✓	
Medical Front Office Clerk*		✓	
Chemistry	✓		
Child Development and Family Studies			
Early Childhood Education*	✓+	✓	
Infant/Toddler Teacher		✓	
Associate Teacher*		✓	
Communication Studies	+		
Sports Broadcasting*		✓	
Computer Information Science			
Computer Science	+		
Computer Programming*	✓	✓	
Microcomputer Applications*	✓	✓	
Web Design and Development*	✓	✓	
Computer Applications Specialist			✓
Database Specialist			✓
Digital and Print Publishing			✓
Digital Media and Web Development			✓
Microsoft Office Specialist			✓
Motion Graphic Editor			✓
Web Programmer			✓
Cosmetology*	✓	✓	

	Associate Degree	Certificate of Achievement	Job Direct Certificate
Criminal Justice			
Administration of Justice	+		
Corrections*	✓	✓	
Law Enforcement*	✓	✓	
Dance	✓		
Drafting			
Drafting and Design Technician*	✓	✓	
Survey and Civil Drafting Technician*	✓	✓	
Computer Aided Drafting (CAD) Technician			✓
Maker Space Technology		✓	
Economics	+		
Elementary Teacher Education	+		
Emergency Medical Technician			✓
Engineering	✓		
English	✓+		
Film and Television	✓		
Fire Technology*	✓	✓	
Foreign Languages			
General	✓		
Individual	✓		
Spanish	+		
Geography	+		
History	+		
Horticulture*	✓	✓	
Landscape Designer			✓
Landscape Technician			✓
Human Services*	✓	✓	
Interdisciplinary Studies			
Science and Quantitative Reasoning	✓		
Wellness and Self Development	✓		
Journalism	✓+		
Kinesiology	+		
Sports Medicine/Athletic Training	✓		
Liberal Studies	✓		
Mathematics	+		
Music	+		
Instrumental	✓		
Vocal	✓		
Nursing, Registered*	✓		
Certified Nursing Assistant			✓
Nutrition	+		
Occupational Education			
Soft Skills for Technicians			✓
Photography, Professional*	✓	✓	
Photo Illustration		✓	
Physical Science	✓		
Physics	✓+		
Political Science	+		
Psychology	✓+		
Real Estate*	✓	✓	
Science, General	✓		
Social Justice/Ethnic Studies			
Social Justice Studies	+		
Ethnic Studies	✓		
Sociology	✓+		
Theatre Arts	✓+		
Theatre Arts Technical*		✓	
Transfer Studies			
CSU GE		✓	
IGETC		✓	
Water and Wastewater Technology*	✓	✓	
Welding*	✓	✓	

An asterisk (*) following a program name indicates a CTE discipline

+ Associate Degree for Transfer exists

✓+ Both an Associate Degree and an Associate Degree for Transfer exist

Associate Degree for Transfer (AD-T)

The Student Transfer Achievement Reform Act of 2010 (SB 1440 - Padilla) enables the California Community Colleges and California State University to collaborate on the creation of Associate in Arts (AA) Degree and Associate in Science (AS) Degree transfer programs. Upon completion of the associate degree, the student is eligible for transfer with junior standing into the California State University (CSU) system. Students are given guaranteed admission into the California State University (CSU) system, and further are given priority consideration when applying to a particular program that is similar to the student's community college major. For more information, see the CSU website on Associate Degrees for Transfer <https://www2.calstate.edu/apply/transfer/Pages/ccc-associate-degree-for-transfer.aspx>

AD-T Programs	A.A.-T	A.S.-T
Administration of Justice		•
Anthropology	•	
Art History	•	
Biology		•
Business Administration		•
Communication Studies	•	
Computer Science		•
Early Childhood Education		•
Elementary Teacher Education	•	
English	•	
Economics	•	
Geography	•	
History	•	
Journalism	•	
Kinesiology	•	
Mathematics		•
Music	•	
Nutrition		•
Physics		•
Political Science	•	
Psychology	•	
Social Justice Studies	•	
Sociology	•	
Spanish	•	
Studio Arts	•	
Theatre Arts	•	

P.A.C.E.

PATHWAYS FOR ACADEMIC AND CAREER EXCELLENCE

WHAT IS P.A.C.E.?

Navigating a college catalog can be frustrating if you don't know what you are looking for.

- ◆ P.A.C.E. empowers the exploration of Solano College's nearly 130 certificates and degrees according to your career goals!
- ◆ P.A.C.E. provides easy-to-understand questions to guide you to the program that is right for you!
- ◆ P.A.C.E. allows for meaningful exploration of program choices while making sure you take the courses you need, even if you change programs!
- ◆ P.A.C.E. includes our Associate Degrees for Transfer which guarantee admission to the California State University System, and which prepare students for transfer to four-year institutions, including the University of California. P.A.C.E. provides easy-to-reference recommended course sequences, so you know which courses you need now to complete your degree at Solano College!

GET STARTED NOW, AND SET YOUR P.A.C.E. TODAY AT SOLANO COMMUNITY COLLEGE!

SOLANO COLLEGE
GUIDED PATHWAYS





P.A.C.E.

PATHWAYS FOR ACADEMIC AND CAREER EXCELLENCE

SET YOUR PACE AT SOLANO!



BUSINESS AND MANAGEMENT

- Do you want to lead or manage? Enjoy numbers and details? Like detail tasks?



EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD

- Do you question and explore physical, biological, or cultural happenings?



HEALTH AND HUMAN SERVICES

- Do you want to help, teach, counsel, or cure people?



INDUSTRIAL AND APPLIED TECHNOLOGY

- Do you want to work hands-on with objects, machines, tools, plants, or animals? Looking for vocational training?



SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

- Do you desire to observe, evaluate, and analyze? Interested in math and/or thinking analytically to solve complex problems?



VISUAL, PERFORMANCE, AND LANGUAGE ARTS

- Do you express yourself creatively? Do you like to enlighten, help, or teach?

BUSINESS AND MANAGEMENT

A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE (P.A.C.E.) AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on others' instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

EXPLORE OUR PROGRAMS

- Account Clerk
- Accounting
- Administrative Assistant
- Business Administration*
- Business Insurance: Property and Casualty
- Computer Applications Specialist
- Computer Programming
- Cosmetology
- Database Specialist
- Economics*
- Insurance Specialist
- Management
- Marketing
- Medical Front Office Clerk
- Microcomputer Applications
- Microsoft Office Specialist
- Real Estate
- Retail Management
- Small Business Management
- Soft Skills for Technicians
- Web Design and Development
- Web Programmer

*an asterisk indicates a program with a recommended course sequence



EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD

A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE (P.A.C.E.) AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

EXPLORE OUR PROGRAMS

- Administration of Justice*
- Anthropology*
- Art History*
- Associate Teacher
- Criminal Justice: Corrections
- Criminal Justice: Law Enforcement
- Early Childhood Education*
- Geography*
- History*
- Liberal Studies
- Political Science*
- Psychology*
- Social Justice Studies*
- Sociology*

*an asterisk indicates a program with a recommended course sequence

HEALTH AND HUMAN SERVICES

A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE (P.A.C.E.) AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

EXPLORE OUR PROGRAMS

- Administration of Justice*
- Administrative Assistant
- ASL/English Interpreter Training
- Associate Teacher
- Certified Nursing Assistant
- Criminal Justice: Corrections
- Criminal Justice: Law Enforcement
- Dance
- Early Childhood Education
- Emergency Medical Technician I
- General Science*
- Fire Technology
- Human Services
- Kinesiology*
- Medical Front Office Clerk
- Nutrition
- Psychology*
- Registered Nursing
- Social Justice Studies*
- Sports Medicine / Athletic Training
- Interdisciplinary Studies: Wellness and Self-Development

*an asterisk indicates a program with a recommended course sequence



INDUSTRIAL AND APPLIED TECHNOLOGY

A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE (P.A.C.E.) AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan, and complete a project or task?
- ...is interested in attaining employment as soon as possible?

EXPLORE OUR PROGRAMS

- Airframe and Powerplant Maintenance Technician
- Airframe Maintenance Technician
- Automotive Electrical and Body Systems
- Automotive Maintenance and Light Repair
- Automotive Technician
- Automotive Transmissions and Transaxles
- Biomanufacturing
- Criminal Justice: Corrections
- Criminal Justice: Law Enforcement
- Cosmetology
- Drafting and Design Technician
- Emergency Medical Technician I
- Fire Technology
- Industrial Biotechnology
- Landscape Designer
- Landscape Technician
- Mechatronics
- Powerplant Maintenance Technician
- Survey and Civil Drafting Technician
- Theater Arts Technical
- Water and Wastewater Technology
- Welding

*an asterisk indicates a program with a recommended course sequence

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE (P.A.C.E.) AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

EXPLORE OUR PROGRAMS

- Anthropology
- Astronomy
- Biology*
- Biomanufacturing
- Biotechnology Laboratory Assistant
- Chemistry*
- Computer Programming
- Drafting and Design Technician
- Engineering
- General Science*
- Geography*
- Horticulture and Plant Science
- Industrial Biotechnology
- Kinesiology*
- Mathematics*
- Mechatronics
- Microcomputer Applications
- Physical Science
- Physics*
- Registered Nursing
- Sports Medicine / Athletic Training
- Survey and Civil Drafting Technician
- Water and Wastewater Technology

* an asterisk indicates a program with a recommended course sequence



VISUAL, PERFORMANCE, AND LANGUAGE ARTS

A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE (P.A.C.E.) AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

EXPLORE OUR PROGRAMS

- Art History*
- ASL/English Interpreter Training
- Communication Studies*
- Dance
- English*
- Film and Television
- Foreign Languages, General
- French*
- Graphic Design & Illustration
- Journalism
- Music*
- Music - Instrumental
- Music - Vocal
- Photography, Professional
- Spanish*
- Sports Broadcasting
- Studio Arts*
- Theatre Arts*

*an asterisk indicates a program with a recommended course sequence

Resources

Looking for how to apply to Solano Community College?

- Detailed instructions are available at solano.edu click "APPLY NOW!"

Feeling lost or overwhelmed? Need help getting started? Make an appointment with one of our counselors!

- Visit us in person, or call to make an appointment!
- Main Campus (Fairfield): Building 400, Room 404; or call (707) 864-7101
- Vacaville Center: Check-in at the front desk; or call (707) 863-7836
- Vallejo Center: Check-in at the front desk; or call (707) 642-8188
- Travis AFB: Visit 530 Hickam Avenue, Building 249, C-BAY; or call (707) 863-7878
- More information, and online booking is available at solano.edu/counseling

Need help with our application process? Reach out to our admissions staff!

- Visit, call, or email, so we can answer all of your questions.
- Admissions is located on the first floor of Building 400 of the Main Campus (Fairfield)
- Or, call at (707) 646-2053 or email at admissions@solano.edu

Visit our Career and Employment Services Center to learn more about your career choices!

- Visit in-person at Building 400, Room 403, of the Main Campus (Fairfield)
- Or, call at (707) 864-7124 or email at careercenter@solano.edu

Our Disability Services Program is here to help you!

- Visit in-person at Building 400, Room 404, of the Main Campus (Fairfield)
- Or, call at (707) 864-7136

Are you a veteran? Contact our Veterans Affairs Center (VAC)!

- Visit in-person at Building 2700, Room 2750 of the Main Campus (Fairfield)
- Or, call at (707) 864-7105 or email at veterans@solano.edu

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aligendendae nusam
quis et

Accounting Department

DEGREES:

Accounting (AS)

CERTIFICATES OF ACHIEVEMENT:

Accounting

JOB-DIRECT LOW UNIT CERTIFICATES:

Account Clerk

COURSES:

ACCT (Accounting)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Erica Beam



P.A.C.E. - BUSINESS AND MANAGEMENT - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on other's instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

Accounting

Accounting

Certificate of Achievement and Associate in Science

Program Description

In recent years, accounting has been one of the fastest growing professions, and the monetary rewards for the individual just entering the field and those achieving corporate positions are among the highest. Accountants deal with the financial condition of a company, an individual, or an organization. An accountant is an analyst who is employed because of expertise in financial matters.

The Certificate of Achievement can be obtained upon completion of the 29-unit major with a minimum grade of C in each course. The Associate in Science can be obtained by completing the 29-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who earn the Accounting Associate in Science will be able to:

1. Demonstrate the use of the accounting cycle to prepare the income statement, statement of owner's equity, and balance sheet while applying the generally accepted accounting principles and concepts.
2. Analyze and evaluate managerial decisions using basic managerial accounting concepts and theory.

Students who earn the Accounting Certificate of Achievement will be able to:

1. Demonstrate the use of the accounting cycle to prepare the income statement, statement of owner's equity, and balance sheet while applying the generally accepted accounting principles and concepts.

REQUIRED COURSES Units

ACCT 001 Principles of Accounting - Financial.....	4
ACCT 002 Principles of Accounting - Managerial.....	4
ACCT 050 Computer Accounting	3
ACCT 176 Intermediate Accounting	3
ACCT 177 Cost Accounting	3
ACCT 183 Principles of Income Tax.....	3

CIS 001 Introduction to Computer Science

or

CIS 050 Microcomputer Applications

CIS 066 Microsoft Word.....

CIS 073 Microsoft Excel

Required Major Total units.....29

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Accounting."

Account Clerk

Job-Direct Low Unit Certificate

REQUIRED COURSES Units

ACCT 001 Principals of Accounting-Financial	4
BUS 097 Work Readiness.....	1.5
CIS 073 Microsoft Excel	3
OT 162 Ten-Key.....	1
Total units	9.5

Advanced Manufacturing Department

DEGREES:

Automation Technology (AS)
Mechatronics (AS)

CERTIFICATES OF ACHIEVEMENT:

Automation Technology
Maintenance Technician
Mechatronics

COURSES:

IT (Industrial Technology)

MT (Maintenance Technology)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Douglas Green



P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Advanced Manufacturing

Automation Technology

Certificate of Achievement and Associate in Science

Program Description

The Automation Technology program provides an introduction to industrial automation including digital electronic, process control and programming of PLCs, robotics and SCADA systems. The program examines applications and examples of automated manufacturing systems including both the theory and function of digital and industrial electronics, hydraulics and pneumatics, robotics systems, digital programming languages and alarm management.

The Certificate of Achievement can be obtained upon completion of the 27-28-unit major. The Associate in Science can be obtained by completing the 27-28-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis

Program Outcomes

Students who complete the Automation Technology Certificate of Achievement/Associate in Science will be able to:

1. Describe and apply current safety rules and regulations while working on various manufacturing and automation systems.
2. Configure and program manufacturing systems and modules including Programmable Logic Controllers (PLCs), Human Machine Interfaces (HMIs), and industrial robots.
3. Demonstrate an understanding of electrical systems and devices related to manufacturing and automation systems

REQUIRED COURSES	Units
CIS 001 Introduction to Computer Science	3
IT 151 Vocational Mathematics	3
IT 101 Introduction to Mechatronics	3
MT 162 Robotic Manufacturing Systems	3
MT 163 Advanced Robotics Manufacturing Systems	3
MT 164 Programmable Logic Controllers	3
MT 165 Advanced Programmable Logic Controllers	3
One course from Electronics List	3-4
Three units from Elective List	3
Required Major Total Units.....	27-28

Electronics List: (select one course)	Units
MT 121 Electronics	4
MT 122 Principles of Digital Electronics	3
Elective List (select three units)	Units
DRFT 151 3D Modeling with Fusion 360	1.5
IT 174 Making Things 4 – Basic Electronics	1
MT 166 CNC Programming	3
MT 132 Principles of Fluid Power Systems	3
MT 142 Principles of Electrical Machinery	3
OCED 090 Occupational Work Experience	1-3
OCED 070 Occupational Soft Skills	1.5

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Automation Technology."

Advanced Manufacturing

Maintenance Technician

Certificate of Achievement

Program Description

The Maintenance Technician program introduces the student to basic electrical and mechanical components used in basic manufacturing systems. Topics covered include functional descriptions, physical properties and operation of electrical and mechanical components and devices. Industrial components and preventative maintenance requirements are also investigated. Students receive hands-on practical experience in the use and application of basic electrical instruments and mechanical measuring devices. An emphasis is placed on safe work habits and procedures, systematic preventive maintenance, localization and correction of malfunctions, and troubleshooting techniques.

The Certificate of Achievement can be obtained by completing the 18-unit major. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Maintenance Technician Certificate of Achievement will be able to:

1. Describe and apply current safety rules and regulations while working on various industrial equipment and machinery.
2. Understand the physical operation of electro-mechanical components such as AC and DC motors, solenoids, relays and various sensors used in basic manufacturing systems.
3. Describe and perform troubleshooting, preventative maintenance and documentation methods associated with basic manufacturing systemstanding of electrical systems and devices related to manufacturing and automation systems

REQUIRED COURSES	Units
IT 101 Introduction to Mechatronics	3
IT 151 Vocational Mathematics	3
MT 130 Principles of Mechanical Power Systems	3
MT 132 Principles of Fluid Power Systems	3
MT 140 Principles of Industrial Electrical Systems	3
MT 142 Principles of Electrical Machinery	3
Required Major Total Units	18

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Maintenance Technician."

Advanced Manufacturing

Mechatronics

Certificate of Achievement and Associate in Science

Program Description

Mechatronics is the study of electronics, mechanics, electrical, and control systems to produce a well-rounded technician capable of handling the complex maintenance and operations tasks demanded by modern manufacturing, packaging, processing, transportation, and communication industries.

Individuals with well-rounded knowledge of how electromechanical and automated systems work together are in high demand and qualify to enter occupations such as a technician or specialist in industrial maintenance, automation, engineering, or in testing/research

The Certificate of Achievement can be obtained upon completion of the 36-37-unit major. The Associate in Science can be obtained by completing the 36-37-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis

Program Outcomes

Students who complete the Mechatronics Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate safe work habits around mechanical and electrical industrial equipment.
2. Troubleshoot and solve basic problems involving electrical wiring, connections, and distribution at both the component level.
3. Troubleshoot and solve basic problems involving mechanical and fluid power systems.
4. Demonstrate proficiency in relating and integrating math and science concepts with basic systems found in industry.
5. Demonstrate proficiency in integrating computer use with industrial machinery and control systems

REQUIRED COURSES	Units
CIS 001 Introduction to Computer Science	3
IT 101 Introduction to Mechatronics.....	3
IT 151 Vocational Mathematics	3
MT 130 Principles of Mechanical Power Systems	3
MT 132 Principles of Fluid Power Systems	3
MT 140 Principles of Industrial Electrical Systems	3
MT 142 Principles of Electrical Machinery	3
MT 162 Robotic Manufacturing Systems.....	3
MT 164 Programmable Logic Controllers	3
One course from Electronics List	3-4
6 units from List A.....	6
Required Major Total Units.....	36-37

Electronics List: (select one course)	Units
MT 120 Principles of Analog Electronics	3
MT 121 Electronics	4
MT 122 Principles of Digital Electronics	3
List A: (select 6 units)	Units
DRFT 050 Basic Drafting	1.5
DRFT 079 Blueprint Reading	3
DRFT 151 3D Modeling with Fusion 360	1.5
IT 050 Alternative Energy Technologies.....	3
IT 120 Electrical Safety	3
IT 140 Industrial Materials.....	3
IT 174 Making Things 4 – Basic Electronics	1
MT 163 Advanced Robotics Manufacturing Systems	3
MT 165 Advanced Programmable Logic Controllers	3
MT 166 CNC Programming	3
OCED 070 Occupational Soft Skills	1.5
OCED 090 Occupational Work Experience	1-6

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Mechatronics."

Aeronautics Department

DEGREES:

Airframe Maintenance Technician (AS)
Powerplant Maintenance Technician (AS)
Airframe & Powerplant Maintenance
Technician (AS)

CERTIFICATES OF ACHIEVEMENT:

Airframe Maintenance Technician
Powerplant Maintenance Technician
Airframe & Powerplant Maintenance
Technician

COURSES:

AERO (Aeronautics)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact:

Brooks "Rusty" Mayes

Kevin Spoelstra



P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Aeronautics

Airframe and Powerplant Maintenance Technician

Certificates of Achievement and Associates in Science

Program Description

Practical and theoretical knowledge in basic maintenance techniques, plus the special requirements of airframe, powerplant, or airframe & powerplant work. Upon satisfactory completion of the required courses, the student is eligible to take the Federal Aviation Administration written oral and practical examination for airframe, powerplant, or airframe and powerplant license.

A focused Airframe or Powerplant Certificate of Achievement can be obtained upon completion of the corresponding 41-unit major. A focused Airframe or Powerplant Associate in Science can be obtained upon completion of the corresponding 41-unit major, General Education, and electives as needed to complete a minimum of 60 units.

The combination Airframe & Powerplant Maintenance Technician Certificate of Achievement can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major. The combination Associate in Science can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major and General Education.

The Federal Aviation administration (FAA) requires 1150 hours (four full semesters) of instruction to complete either the Airframe Maintenance curriculum or Powerplant Maintenance Curriculum (An additional 750 hours, two full semesters for the Combination of Airframe and Powerplant Maintenance Curriculum). All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Airframe Maintenance Technician, Powerplant Maintenance Technician or Airframe & Powerplant Maintenance Technician Certificate of Achievement or Associate in Science will be able to:

1. Demonstrate proficient, entry-level aviation maintenance skills in airframe, powerplant, or airframe and powerplant with emphasis on aircraft engines, aircraft structures, and aircraft systems.
2. Have a working knowledge to inspect, maintain, service and repair aircraft electrical, engine (piston and turbine), airframe structure, flight control, hydraulic, pneumatic, fuel, navigation and instrument systems and other aircraft components specified by Federal Aviation Regulation Part 147.
3. Obtain the knowledge and skills to pass oral, practical and written Federal Aviation Administration (FAA) examination in general and airframe/powerplant subjects.

AIRFRAME REQUIRED COURSES	Units
AERO 102 Aviation Maintenance Technician - Airframe Structures.....	10
AERO 105 Aviation Maintenance Technician - Airframe Systems	10
AERO 118 Aviation Maintenance Technician - FAA Airframe Test Preparation	1
General Required Courses	20
Required Major Total units	41

POWERPLANT REQUIRED COURSES	
AERO 106 Aviation Maintenance Technician - Powerplant Reciprocating Engines	10
AERO 107 Aviation Maintenance Technician - Powerplant Turbine Engines	10
AERO 119 Aviation Maintenance Technician - FAA Powerplant Test Preparation.....	1
General Required Courses	20
Required Major Total units	41

GENERAL REQUIRED COURSES	Units
AERO 055 Aviation Maintenance Technician - General Aircraft Subjects	10
AERO 103 Aviation Maintenance Technician - Basic Electricity and Hydraulics	10

AIRFRAME AND POWERPLANT REQUIRED COURSES	Units
Complete all courses	62

These programs are Gainful Employment Programs. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Aeronautics Airframe Maintenance Technician," or "Aeronautics Airframe & Powerplant Maintenance Technician."

American Sign Language Department

DEGREE

ASL/English Interpreter Training (AA)

CERTIFICATE OF ACHIEVMENT

ASL/English Interpreter Training

COURSES:

[ASL \(American Sign Language\)](#)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer

Faculty Contact:

Hui Hui "Gwen" Gallagher

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

American Sign Language

ASL/English Interpreter Training

Certificate of Achievement and Associate in Arts

Program Description

The ASL program provides a foundation of interpreting skills for students seeking to transfer to a four-year institution in order to become an interpreter. The coursework presents American Sign Language in a cross-cultural context, addressing the ethics and standards expected of a professional interpreter.

The Certificate of Achievement can be obtained upon successful completion of the 27-unit major. The Associate in Arts can be obtained upon completion of the major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the ASL/English Interpreter Training Certificate of Achievement/Associate in Arts will be able to:

1. Sign effectively, using appropriate skills, in working with the Deaf and Hard of Hearing.
2. Demonstrate an understanding of Deaf culture, and the ethics and standards of professional ASL environment.

REQUIRED COURSES.....Units

ASL 001 American Sign Language 1 3

ASL 002 American Sign Language 2 3

ASL 003 American Sign Language 3 3

ASL 004 American Sign Language 4 3

ASL 005 American Deaf Culture..... 3

ASL 006 Linguistics of American Sign Language 3

ASL 052 Fingerspelling, Classifiers, and Numbers 3

ASL 053 Introduction to American Sign Language

Interpreting 3

ASL 054 ASL Interpreting Field Work 2

OCEC 090 Occupational Work Experience 1

Required Major Total Units27

This program is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "ASL/English Interpreter Training."

Anthropology Department

DEGREES:

Anthropology (AA-T)

COURSES:

ANTH (Anthropology)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact: Lauren Taylor-Hill

P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Guided Pathways:

Anthropology AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 60.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Anthropologist • Archaeologist • Post-Secondary Teacher • Curator

What your potential plan could look like...

1 First Semester

Total Recommended Units: 15

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 Statistics (IGETC 2B) 4 units
- ANTH 002 Cultural Anthropology (IGETC 4) 3 units
- UC Transferable Elective 3 unit
Suggested: COUN 007

2 Second Semester

Total Recommended Units: 14.5

- ANTH 001 Physical Anthropology (IGETC 5B) 3 units
- ANTH 001L Physical Anthropology Lab (IGETC 5C) 1.5 units
- ENGL 002 or ENGL 004 IGETC 1B 4 units
- HIST 017, 018, 028, 029, or 037 IGETC 3B/American Institutions 3 units
- IGETC 3A - *Suggested:* 3 units
ART 012 CINA 011 MUSC 013 or THEA 013

3 Third Semester

Total Recommended Units: 13

- ANTH 007 Archaeology (IGETC 4) 3 units
- SOC 001 Intro to Sociology (IGETC 4/ANTH List C) 3 units
- ANTH LIST B of the ADT 3 units
COMM 012, GEOG 002, PSYC 007, or SOC 001
- GEOL 002 Physical Geology (MAJOR/ANTH List A) 1 units
- UC Transferable Elective 3 unit
(If Taking ASL 001)

4 Fourth Semester

Total Recommended Units: 12

- PLSC 001 or 005 IGETC 4/American Institutions 4 units
- IGETC 3A 1 unit
Suggested: ART 001
- ANTH LIST C of the ADT 4 units
Suggested: GEOL 002
- LR 010 Introduction to Library Research 1 unit

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- COMM 001, 002, or 006 IGETC 1C 3 units
- GEOL 001 ANTH LIST A/IGETC 5A 3 unit

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

Anthropology

Associate in Arts in Anthropology for Transfer (ADT: AA-T)

Program Description

The Anthropology program emphasizes the development and diversity of, and adaptations in, human behavior and biology. Students in this program may study a variety of anthropological subfields, including Physical, Cultural, and Archaeology. In addition to acting as a path for successful transfer to an institution offering a baccalaureate degree in Anthropology, the Associate in Arts in Anthropology for Transfer Degree provides students pursuing any baccalaureate degree with basic skills in critical analysis, application of the scientific method, and cross-cultural understanding.

Upon completion of the Associate in Arts in Anthropology for Transfer, students will be prepared to transfer to a CSU undergraduate Anthropology program. The Associate in Arts in Anthropology for Transfer Degree will facilitate successful transfer to the CSU system, allowing students to complete baccalaureate degrees in a more timely fashion.

To earn the Associate in Arts in Anthropology for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Anthropology for Transfer degree, will be able to:

1. Demonstrate an understanding of anthropology as a science, in particular with regard to major theories, methods, and applications.
2. Demonstrate an understanding of human biological diversity, and be able to discuss processes responsible for such variation.
3. Demonstrate an understanding of human cultural diversity, and be able to discuss processes responsible for such variation.

REQUIRED COURSES	Units
ANTH 001 Physical Anthropology	3
ANTH 001L Physical Anthropology Laboratory	1.5
ANTH 002 Cultural Anthropology	3
ANTH 007 Archaeology	3
MATH 011 Elementary Statistics.....	4
3-5 units from List A	3-5
3-5 units from List B	3-5
Required Major Total units	20.5-23.5

List A (select 3-5 units)	Units
BIO 004 Human Anatomy	5
GEOL 010 Introduction to Geographic Information Systems	3
PSYC 004 Research Methods in Behavioral Science	3
GEOL 001 Physical Geology	3
and	
GEOL 002 Geology Laboratory	1

List B (select 3-5 units)	Units
Any List A course(s) not already used.....	3-5
COMM 012 Intercultural Communication	3
GEOG 002 Cultural Geography	3
PSYC 007 Cross-Cultural Psychology	3
SOC 001 Introduction to Sociology.....	3

Art Department

DEGREES:

Art History (AA-T)
Graphic Design & Illustration (AA)
Studio Art (AA-T)
Studio Arts with Emphasis (AA)

COURSES:

ART (Art)
ARTD (Digital Art)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B
Phone Number: (707) 864-7250
Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones
Donna Meyer

Faculty Contact:

Ferdinanda Florence
Marc Lancet
Jeanne Lorenz
Marc Pandone
Rachel Smith



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE (All Programs)

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE (Art History AA-T)

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

Guided Pathways:

ART HISTORY AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61 - 64.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Art, Drama, History and/or Music Teacher • Art Therapist • Art Director • Museum Curator, Technician, or Conservator • Fine Artist

What your potential plan could look like...

1 First Semester

Total Recommended Units: 14 - 15

- ENGL 001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- MATH 011 or 012 3 - 4 units
(IGETC 2B)
- ART 001 3 units
Art History (IGETC 3A)
- LIST B of the ADT 3 unit
Suggested: ART 006, 007, or 008

3 Third Semester

Total Recommended Units: 13-15.5

- ART 003A or ART 003B 3 units
Art of Asia or Art of Africa, Oceania, and Americas
- COMM 012, HIST 037, PLSC 005, 3 units
PSYC 007, or SJS 002
- (IGETC 5A/5C) Suggested: 3 units
ASTR 010 & 020, GEOL 001 & 002, or GEOG 001/ 001L
- ASL 001, FREN 001, or 3 - 5 units
SPAN 001, or UC Transferable Elective *

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester

Total Recommended Units: 13

- ENGL 002 or 004 4 units
(IGETC 1B)
- COMM 001, 002, or 006 3 units
(IGETC 1C)
- ART 002 3 units
Art History (IGETC 3A)
- ART 014 3 units
Intro to Drawing

4 Fourth Semester

Total Recommended Units: 15

- PLSC 001 or 005 3 units
(IGETC 4/American Institutions)
- (IGETC 5B) Suggested: 3 units
BIO 012, 016, 018, 020, OR 025
- ART 011 or ART 012 3 units
Survey of Modern Art or Inside/Outside
- IGETC 4 3 units
Suggested: ANTH 002 or 007
- UC Transferable Elective 3 units

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- HIST 017, 018, 028, 029, or 037 3 units
(IGETC 3B/American Institutions)
- UC Transferable Elective 3 unit

Art

Associate in Arts in Art History for Transfer (ADT: A.A.-T)

Program Description

The Art History program provides the academic and practical experience to prepare students for a career, or further education at a four-year institution, in art history and related fields, such as museum studies, art education and administration. The Associate in Arts in Art History for Transfer provides the academic and practical experience to transfer into the CSU system to complete a baccalaureate degree that will prepare students for a career in Art History.

Students wishing to transfer to a University of California system for an Art History B.A. should take all the art history courses in the program (ART 001, 002, 003A, 003B, 011 and 012). Students completing the Associate in Arts in Art History for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Arts in Art History for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Arts in Art History for Transfer degree also prepares students for art history degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Art History for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Art History for Transfer degree will be able to:

1. Students will analyze the relationship between various cultures and their art forms, linking specific works, artists, and art movements/periods to relevant historical events, cultural values, and belief systems.
2. Students will analyze issues related to the perception, scholarship, and display of artwork.
3. Students will use scholarly sources effectively and ethically to support their analyses of art.

REQUIRED COURSES Units

ART 001 Art History	3
ART 002 Art History	3
ART 014 Introduction to Drawing	3
3 units from List A.....	3
3 units from List B.....	3
3 units from List C.....	3

Required Major Total units..... 18

List A: Non-Western Arts History (select 3 units) .. Units

ART 003A Arts of Asia	3
ART 003B Arts of Africa, Oceania, and the Americas	3

List B: Studio Art (select 3 units) Units

ART 004 Life Drawing.....	3
ART 006 Design Principles in 2-Dimensions	3
ART 007 Design-Color	3
ART 008 Design Principles in 3-Dimensions	3
ART 016 Beginning Painting.....	3
ART 019 Figure Painting.....	3

ART 023 Introduction to Ceramics: Hand Building	3
ART 026 Introduction to Ceramics: Wheel Throwing Techniques.....	3
ART 031 Sculpture	3
ART 032 Sculpture: Human Figure.....	3
ART 038 Introduction to Printmaking.....	3
ART 039 Etching and Engraving: Line Techniques.....	3
ART 043 Printmaking: Relief Printing, Including Woodcut.....	3
ART 045A Graphic Design I	3
PHOT 030 Beginning Photography	3

List C: Modern, Contemporary, and Theory (select 3 units)..... Units

ART 011 Survey of Modern Art.....	3
ART 012 Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America	3

Guided Pathways:

STUDIO ARTS AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61-63.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Art Therapist • Museum Curator, Technician, or Conservator • Art Director •

Multimedia Artist and Animator • Art Educator • Graphic Designer • Fine Artist

What your potential plan could look like...

1 First Semester

Total Recommended Units: 14

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- ART 002 Art History (IGETC 3A) 3 units
- ART 006 Design in 2 Dimensions 3 units
- ART 008 Design in 3 Dimensions 3 units

3 Third Semester

Total Recommended Units: 15-17

- LIST A of the ADT 3 units
Suggested: ART 001/MAJOR/IGETC AREA 3A
- LIST B of the ADT 3 units
- IGETC 5B Suggested: 3 units
BIO 012, 016, 018, 020, OR 025
- COMM 001, 002, or 006 3 units
(IGETC 1C)
- ASL 001, FREN 001, or 3 - 5 units
SPAN 001, or UC Transferable Elective *

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester

Total Recommended Units: 13

- ENGL 002 or 004 (IGETC 1B) 4 units
- MATH 012 (IGETC 2) 3 units
- LIST B of the ADT 3 units
- ART 014 Introduction to Drawing 3 units

4 Fourth Semester

Total Recommended Units: 13-15

- LIST B of the ADT 3 units
- PLSC 001 or 005 3 units
(IGETC 4/American Institutions)
- IGETC 5A/5C Suggested: 4 - 4.5 units
ASTR 010 & 020, GEOL 001 & 002, or GEOG 001 & 001L
- COMM 012, COUN 015, HIST 037, 3 units
PSYC 007, or SJS 002 (IGETC 4/Cross-cultural)

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- UC Transferable Elective 3 units
- HIST 017, 018, 028, 029, or 037 3 units
(IGETC 4/American Institutions)

Art

Associate in Arts in Studio Arts for Transfer (ADT: A.A.-T)

Program Description

The Studio Arts program provides the academic and practical experience to prepare students for a career, or further education at a four-year institution, in studio art. The program is designed for students to develop visual skills in a variety of art media.

The Associate in Arts in Studio Arts for Transfer is especially designed for students who plan to complete a bachelor's degree in Studio Arts at a CSU campus. Students completing the Associate in Arts in Studio Arts for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the A.A.-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for studio art programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Studio Arts for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Studio Arts for Transfer will be able to:

1. Apply appropriate materials and techniques to solve creative problems.
2. Apply composition strategies to create visually unified and compositionally effective works of art.
3. Utilize appropriate language and approaches to create, analyze and critique conceptually effective works.

REQUIRED CORE	Units	ART 021 Watercolor	3
ART 002 Art History	3	ART 023 Introduction to Ceramics: Hand Building	3
ART 006 Design Principles in 2-Dimensions	3	or	
ART 008 Design Principles in 3-Dimensions	3	ART 026 Introduction to Ceramics:	
ART 014 Introduction to Drawing.....	3	Wheel Throwing Techniques.....	3
One course from List A	3	ART 024 Intermediate Ceramics: Hand Building.....	3
Three courses from List B	9	ART 031 Sculpture	3
Required Major Total units	24	or	
List A: (select one course)	Units	ART 034 Ceramic Sculpture	3
ART 001 Art History	3	ART 032 Sculpture: Human Figure.....	3
ART 003A Arts of Asia	3	ART 033 Intermediate Sculpture	3
ART 003B Arts of Africa, Oceania, and the Americas	3	ART 038 Introduction to Printmaking.....	3
ART 011 Survey of Modern Art.....	3	ART 039 Etching and Engraving: Line Techniques.....	3
List B: (select three courses)	Units	ART 040 Etching and Engraving: Tone	3
ART 004 Life Drawing.....	3	ART 041 Etching and Engraving: Color.....	3
or		ART 042 Screen Printing	3
ART 015 Intermediate Drawing	3	ART 043 Printmaking: Relief Printing,	
ART 005 Life Drawing - Intermediate	3	Including Woodcut.....	3
ART 007 Design-Color.....	3	ART 045A Graphic Design I	3
ART 016 Beginning Painting.....	3	ART 045C Typography.....	3
ART 017 Intermediate Painting: Acrylic and Oil.....	3	ART 046 Illustration	3
ART 019 Figure Painting.....	3	PHOT 030 Beginning Photography	3

Art

Graphic Design & Illustration

Associate in Arts

Program Description

The Graphic Design and Illustration program provides the student with sufficient academic and practical experience for entrance into the job market as a graphic artist, or for study towards the B.A. in college or professional school.

The Associate in Arts can be obtained by completing the 27-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Graphic Design & Illustration Associate in Arts will be able to:

1. Analyze, apply and integrate diverse visual experiences.
2. Develop and articulate with proficiency an understanding of visual and multi-cultural literacy.
3. Work independently and cooperatively to solve creative problems, applying critical thinking skills.

REQUIRED COURSES Units

ART 004 Life Drawing..... 3

or

ART 015 Intermediate Drawing 3

ART 006 Design Principles in 2-Dimensions 3

ART 007 Design-Color..... 3

ART 014 Introduction to Drawing..... 3

ART 045A Graphic Design I..... 3

ART 045B Graphic Design II 3

ART 045C Typography..... 3

ART 046 Illustration I 3

ART 046C Illustration II 3

Required Major Total Units.....27

Art

Studio Arts with Emphasis

Associate in Arts

Program Description

The Studio Arts with Emphasis Program offers students a strong fine arts foundation, with core courses that develop essential technical skills, aesthetic vision, historical and contemporary art context, and an understanding of the artist's role as a global citizen. Students may select an Emphasis which will allow deeper technical, aesthetic, and conceptual study within a specific medium: drawing and mixed media; painting; printmaking; sculpture; and ceramics. The Studio Arts with Emphasis is designed for students seeking to further their study at an art school or at one of the University of California art departments. Students who earn this degree will also meet the requirements for the Studio Arts AA-T.

The Associate in Arts can be obtained upon completion the 26-27 unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Studio Arts with Emphasis Associate in Arts will be able to:

1. Demonstrate advanced skills in selecting a broad range of appropriate materials and techniques to solve creative problems.
2. Apply advanced composition strategies to create visually unified and compositionally effective works of art.
3. Utilize appropriate language and approaches to create, analyze, and critique conceptually effective works of art at an advanced level, with breadth and depth of analysis.

REQUIRED CORE	Units
ART 002 Art History	3
ART 006 Design Principles in 2-Dimensions	3
ART 007 Design-Color	3
ART 008 Design Principles in 3-Dimensions	3
ART 014 Introduction to Drawing.....	3
One course from List A: Art History	3
Three courses from one of the Areas of Emphasis.....	8-9
Required Major Total Units	26-27

List A: Art History (select one course)	Units
ART 001 Art History	3
ART 011 Survey of Modern Art.....	3

Areas of Emphasis: (select three courses from one Area)

Drawing and Mixed Media	Units
ART 004 Life Drawing.....	3
ART 005 Life Drawing.....	3
ART 015 Intermediate Drawing	3
ART 015B Collage & Assemblage.....	3
ART 020 Landscape Drawing and Painting — Reflections of Nature.....	2-3
Painting	Units
ART 016 Beginning Painting.....	3
ART 017 Acrylic and Oil Painting.....	3
ART 018 Advanced Intermediate Painting: Acrylic and Oil Painting.....	3
ART 019 Figure Painting.....	3
ART 021 Watercolor	3

Printmaking	Units
ART 038 Introduction to Printmaking.....	3
ART 039 Etching and Engraving: Line Techniques.....	3
ART 040 Etching and Engraving: Tone	3
ART 041 Etching and Engraving: Color.....	3
ART 042 Screen Printing	3
ART 043 Printmaking: Relief Printing, Including Woodcut	3
Sculpture	Units
ART 031 Sculpture	3
ART 032 Sculpture: Human Figure.....	3
ART 033 Intermediate Sculpture	3
ART 034 Ceramic Sculpture	3
Ceramics	Units
ART 023 Introduction to Ceramics: Hand Building	3
ART 024 Intermediate Ceramics: Hand Building.....	3
ART 025 Ceramic Design And Decoration: Hand Building Methods.....	3
ART 026 Introduction to Ceramics: Wheel Throwing Techniques	3
ART 027 Intermediate Ceramics: Wheel Throwing Techniques	3
ART 028 Ceramic Design: Wheel Throwing Techniques..	3
ART 029 Raku Pottery	3
ART 030C Ceramics: History, Culture, Practice	3
ART 035A Introduction to Wood-Fired Ceramics.....	3
ART 037 Clay and Glazes for the Ceramic Artist	3

Astronomy Department

DEGREES:

Astronomy (AS)

COURSES:

ASTR (Astronomy)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact:

Zach Hannan

Melanie Lutz



P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Astronomy

Astronomy

Associate in Science

Program Description

The Astronomy program introduces students to the physical properties and processes that govern celestial bodies in the Universe. Students may take astronomy courses to satisfy their natural sciences requirements or to transfer with a major in astronomy/astrophysics or double major in astronomy and physics to the university. Transfer level astronomy curricula stress very strong preparation in physics and mathematics. While most astronomy courses will be taken at the upper division or graduate level, exposure to lower division astronomy courses will assist in exploring the major. Students planning to transfer may need to complete additional coursework and/or select specific electives required by the transfer institution and should consult with a counselor to identify required courses at their target university. Students who pursue a B.S. degree in astronomy will be qualified to enter a teaching credential program, operate a planetarium, and assist at an observatory. With an M.S. degree, students can teach astronomy or physics at a community college, be a telescope operator at a major observatory, or work in industry. A Ph.D. qualifies students for a career in research at a university, space agency, or observatory.

The Associate in Science in Astronomy can be obtained by completing the 39-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C, or a grade of P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Astronomy Associate in Science will be able to:

1. Explain and discuss basic astronomical phenomena including, but not limited to: gravitation, the seasons, the phases of the Moon, eclipses.
2. Apply the laws of physics to explain the properties of planets, stars, galaxies, and the Universe.
3. Explain and discuss the impact and history of scientific theories and their importance in the advancement of astronomy.
4. Demonstrate proficiency in applying scientific procedures for making observations and measurements typical of modern astronomical research.

REQUIRED COURSES Units

ASTR 010 General Astronomy	3
ASTR 020 Astronomy Laboratory.....	1
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
MATH 022 Analytic Geometry and Calculus III	4
PHYS 006 Physics for Science and Engineering.....	5
PHYS 007 Physics for Science and Engineering.....	5
PHYS 008 Physics for Science and Engineering.....	5
6 units from List A:	6
Required Major Total Units.....	39

List A: (select 6 units) Units

ASTR 030 The Solar System	3
ASTR 040 Stars, Galaxies, and Cosmology	3
ASTR 045 Introduction to Astrobiology and the Search for Life in the Universe	3
ASTR 050 Astronomical Optics	1
CHEM 001 General Chemistry	5
CIS 022 Introduction to Programming.....	3

Automotive Department

DEGREES:

Automotive Technician (AS)

CERTIFICATES OF ACHIEVEMENT

Automotive Automatic Transmissions
and Transaxles

Automotive Electrical and Body Systems

Automotive Maintenance and Light Repair

COURSES:

ATEC (Automotive Technology)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact:

Paul Hidy

Ricky "Rick" Marshall

Andrew McGee



P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Automotive

Automotive Technician

Associate in Science

Program Description

The Automotive Technician program is designed to prepare graduates for entry level employment in the automotive industry as apprentice technicians, parts specialists, service consultants, or specialists in one of the many areas in the automotive service and repair industry.

The Associate in Science can be obtained upon completion of the 45-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Automotive Technician Associate in Science will be technically proficient in entry level skills as defined by the National Automotive Technician's Education Foundation (NATEF) by demonstrating:

1. Demonstrate the ability to properly service and repair automotive engines, automatic and manual transmissions and transaxles.
2. Demonstrate the ability to properly service and repair automotive brakes, steering and suspension systems.
3. Demonstrate the ability to properly service and repair automotive electrical, engine performance, HVAC and hybrid/alternative fuel vehicles.
4. Demonstrate effective workplace skills including oral and written communication and proper disposal and handling of hazardous waste materials

REQUIRED COURSES	Units
A TEC 070 Automotive Fundamentals	3
A TEC 130 Automotive Suspension and Steering.....	4
A TEC 131 Automotive Electrical Systems	4
A TEC 132 Automotive Brake Systems	4
A TEC 133 Automotive Engine Repair	4
A TEC 134 Automatic Transmissions/Transaxles	4
A TEC 135 Automotive Engine Performance.....	4
A TEC 136 Automotive Manual Drivetrain and Axles.....	4
A TEC 137 Automotive Heating and Air Conditioning.....	4
A TEC 138 Automotive Electronics.....	4
A TEC 139 Advanced Engine Performance.....	4
A TEC 140 Hybrid Vehicle Maintenance and Repair	2
Required Major Total Units.....	45

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Automotive Technician."

Automotive

Automotive Automatic Transmissions and Transaxles

Certificate of Achievement

Program Description

This program is designed to prepare graduates for entry level employment in the automotive industry as an Automatic Transmission/Transaxle Service/Repair Technician.

The Certificate of Achievement can be obtained by completing the 17-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Automatic Transmissions and Transaxles Certificate of Achievement will be able to:

1. Diagnose, remove, and repair automotive transmissions and transaxles
2. Utilize electrical diagnostic equipment and do hands-on testing with digital multi-meter
3. Safely work on and repair hybrid and alternative fuel vehicles

REQUIRED COURSES	Units
ATEC 070 Automotive Fundamentals	3
ATEC 131 Automotive Electrical Systems	4
ATEC 134 Automatic Transmissions/Transaxles.....	4
ATEC 138 Automotive Electronics.....	4
ATEC 140 Hybrid Vehicle Maintenance and Repair	2
Total Units	17

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Automotive Automatic Transmissions and Transaxles."

Automotive

Automotive Electrical and Body Systems

Certificate of Achievement

Program Description

This program is designed to prepare graduates for entry level employment in the automotive industry as an Automotive Electrical/Electronics Service/Repair Technician.

The Certificate of Achievement can be obtained by completing the 17-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Automotive Electrical and Body Systems Certificate of Achievement will be able to:

1. Understand the theory of air conditioning and heating systems and how to properly repair automotive HVAC systems
2. Utilize electrical diagnostic equipment and do hands-on testing with digital multi-meter
3. Safely work on and repair hybrid and alternative fuel vehicles

REQUIRED COURSES.....	Units
ATEC 070 Automotive Fundamentals	3
ATEC 131 Automotive Electrical Systems	4
ATEC 137 Automotive Heating and Air Conditioning.....	4
ATEC 138 Automotive Electronics.....	4
ATEC 140 Hybrid Vehicle Maintenance and Repair	2
Total Units.....	17

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Automotive Electrical and Body Systems."

Automotive

Automotive Maintenance and Light Repair

Certificate of Achievement

Program Description

This program is designed to prepare graduates for entry level employment in the automotive industry as apprentice technicians, lube technician, express service technician or parts specialist.

The Certificate of Achievement can be obtained by completing the 17-unit automotive major. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Automotive Maintenance and Light Repair Certificate Achievement will be able to:

1. Demonstrate proficiency in diagnosing and repairing automotive steering and suspension systems
2. Use electrical diagnostic equipment and do hands-on testing with a digital multi-meter
3. Proficiently diagnose, service, and repair automotive brake systems
4. Safely work on and repair hybrid and alternative fuel vehicles

REQUIRED COURSES.....	Units
ATEC 070 Automotive Fundamentals	3
ATEC 130 Automotive Suspension and Steering.....	4
ATEC 131 Automotive Electrical Systems	4
ATEC 132 Automotive Brake Systems	4
ATEC 140 Hybrid Vehicle Maintenance and Repair	2
Total Units.....	17

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Automotive Maintenance and Light Repair Technician."

Biology Department

DEGREES:

Biology (AS-T)

Biology (AS)

Biomedical Sciences (AS)

CERTIFICATES OF ACHIEVEMENT

Biomedical Sciences

COURSES:

BIO (Biology)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact:

James "Jim" Dekloe

Kristina Ferrebee

James "Jim" Long

Margherita Molnar

Renee Moore

Brad Paschal

Edward "Ed" Re

Michelle Smith

James Word

Cristina Young

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Guided Pathways:

BIOLOGY AS-T

Associate in Science for Transfer | GE Pattern: IGETC | Program Total Units: 61 - 64.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Biological Technician • Biologist • Molecular and Cellular Biologist • Geneticist • Life Scientist • Natural Science Manager • Environmental Restoration • Secondary Education • Post-Secondary Education

What your potential plan could look like...

1 First Semester Total Recommended Units: 15

- ENGL 001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- MATH 020 5 units
Analytic Geometry & Calculus (IGETC 2)
- CHEM 001 5 unit
General Chemistry I (IGETC 5A/5C)

3 Third Semester Total Recommended Units: 16

- PHYS 002 or PHYS 006 5 units
General PHYS I or PHYS for Science/Engineering I*
- BIO 003 5 units
Evolution, Ecology, and Biodiversity
- COMM 001, 002, or 006 3 units
(IGETC 1C)
- HIST 017, 018, 028, 029, or 037 3 units
(IGETC 3B/American Institutions)

*Requires Math 021

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester Total Recommended Units: 14

- CHEM 002 5 units
General Chemistry II
- BIO 002 5 units
Cell & Molecular Biology (IGETC 5B)
- ENGL 002 or 004 4 units
(IGETC 1B)

4 Fourth Semester Total Recommended Units: 14

- PHYS 004 or PHYS 007 5 units
General PHYS II or PHYS for Science/Engineering II*
- BIO 003 3 units
Evolution, Ecology, and Biodiversity
- IGETC 3A or 3B 3 units
- IGETC 4 3 units
Suggested: SOC 001 or ANTH 002

*Requires Math 021 & PHYS 006

Courses Below May Be Taken Any Time (Fall, Spring or Summer) Total Recommended Units: 6

- IGETC 3A Suggested 3 units
ART 012, CINA 011, MUSC 013, or THEA 013
- PLSC 001 or 005 3 unit
(IGETC 4/American Institutions)

Note: The University of California transfer pathway for Biology also requires MATH 021, CHEM 003, and CHEM 004, but does NOT require courses in Physics. See a counselor for a personalized education plan.

Biology

Associate in Science in Biology for Transfer (ADT: A.S.-T.)

Program Description

The Associate in Science in Biology for Transfer program prepares students to transfer to the California State University system as a biology major.

The Associate in Science in Biology for Transfer prepares students to seamlessly transfer to the California State University system as a Biology major. This degree gives Biology majors the Biology, Mathematics, Chemistry, and Physics knowledge that allows them to succeed in upper division courses after transfer. In the major, students gain knowledge of biological molecules, cell structure and function, bioenergetics, Mendelian and molecular genetics, microbiology, plant biology, evolution, ecology, biodiversity, and biotechnology. In the laboratory students learn experimental design including data collection and analysis, keeping a legal laboratory notebook, and reporting the results in a standard scientific journal format. The Biology courses give students an extensive laboratory experience where they gain essential skills required to study and manipulate macromolecules, aseptically transfer cells, work with the common model organisms used in Biology research, and carry out a field study.

Associate in Science in Biology for Transfer

Students who complete this 35 unit major will be guaranteed admission with junior status to the California State University system, though not to a particular campus or Major.

The Associate in Science in Biology for Transfer requires:

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - b. Completion of the 35 units of courses in the major.
2. Obtainment of a minimum grade point average of 2.0. Students must earn a C or better in all courses required for the major. A “P” (Pass) grade is not an acceptable grade for courses in the major.

Program Outcomes

Students who complete the Associate in Science in Biology for Transfer will be able to:

1. Design and/or interpret an investigation, including data collection and/or analysis.
2. Describe the molecular basis of genetics and energetics.
3. Explain the principles and mechanisms of microevolution and macroevolution.

REQUIRED COURSES.....Units	List A.....Units
BIO 002 Cell and Molecular Biology 5	PHYS 002 General Physics (Non-Calculus) 5
BIO 003 Evolution, Ecology & Biodiversity 5	PHYS 004 General Physics (Non-Calculus) 5
CHEM 001 General Chemistry I 5	
CHEM 002 General Chemistry II 5	List B.....Units
MATH 020 Analytic Geometry and Calculus I 5	PHYS 006 Physics for Science and Engineering..... 5
Select List A or List B..... 10	PHYS 007 Physics for Science and Engineering..... 5
Required Major Total Units.....35	

Biology

Biology

Associate in Science

Program Description

This program has been designed for students planning on transferring to a campus of the University of California as a Biology, Cell Biology, Molecular Biology, or Biochemistry major. The program incorporates a study of the mathematics, chemistry, and biology required to understand and research biological processes including cell biology, molecular biology, bioenergetics, genetics, population genetics, microbiology, evolution, developmental biology, ecology, biodiversity, and biotechnology.

The Associate in Science can be obtained by completing the 40-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Biology Associate in Science will be able to:

1. Design and/or interpret an investigation, including data collection and/or analysis.
2. Describe the molecular basis of genetics and energetics.
3. Explain the principles and mechanisms of microevolution and macroevolution.

REQUIRED COURSES	Units
BIO 002 Cell and Molecular Biology	5
BIO 003 Evolution, Ecology & Biodiversity	5
CHEM 001 General Chemistry I	5
CHEM 002 General Chemistry II	5
CHEM 003 Organic Chemistry I	5
CHEM 004 Organic Chemistry II	5
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
Required Major Total Units.....	40

Biology

Biomedical Sciences

Certificate of Achievement and Associate in Science

Program Description

The Biomedical Sciences program prepares students to transfer into a health care profession program offered at a community college or a four year institution. These fields include nursing, respiratory therapy, radiological science, physical therapy, occupational health, dental assistant, and dental hygiene. The degree provides basic knowledge in chemistry, microbiology, human anatomy, and human physiology. These are the common prerequisites for community college and university allied health majors.

The Certificate of Achievement can be obtained upon completion of the 18-19-unit major. The Associate in Science can be obtained by completing the 18-19-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Biomedical Sciences Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate knowledge of the structure and function of the major organ systems of the human body.
2. Demonstrate knowledge of the normal physiological functions of the organ systems and explain how disturbances of normal physiological functions lead to metabolic and physiological disorders (clinical applications).
3. Demonstrate knowledge of how microorganisms interact with the human body and describe how these interactions lead to health or human disease

REQUIRED COURSES	Units
BIO 004 Human Anatomy	5
BIO 005 Human Physiology	5
BIO 014 Principles of Microbiology	4
One course from Chemistry List	4-5
Required Major Total Units	18-19

Chemistry List: (select one course)	Units
CHEM 001 General Chemistry I	5
CHEM 010 Intermediate Chemistry	4
CHEM 012 Chemistry for the Health Sciences.....	5

Biotechnology Department

DEGREES:

Biomanufacturing (BS)

Industrial Biotechnology (AS)

CERTIFICATES OF ACHIEVEMENT

Industrial Biotechnology

Biotechnology Laboratory Assistant

Stem Cells and Cell-Based Technologies

COURSES:

BIOT (Biotechnology)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact:

James "Jim" Dekloe

Edward "Ed" Re

Gulnur Sanden

Michael Silva

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

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- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Biotechnology

Biomanufacturing

Bachelor of Science (Baccalaureate)

Solano Community College is one of fifteen community colleges in the state of California to offer a pilot four year, or baccalaureate, degree. Solano Community College's degree is a Bachelor of Science in Biomanufacturing. In biomanufacturing scientists develop techniques to grow genetically engineered cells (bacterial, yeast, or animal cells) in large tanks called bioreactors and develop methods to purify the protein that the cells produce. Then technicians use analytical techniques to prove the purity of the isolated protein. In the future Biomanufacturing will be expanded to include the industrial production of biofuels, biomaterials, stem cells, and other products currently manufactured using chemical rather than biological techniques.

Program Description

The Biomanufacturing program builds upon the Associate in Science in Industrial Biotechnology. In the baccalaureate program students gain knowledge in biology, chemistry, engineering, statistics, quality, regulatory affairs, and business. Students use biomanufacturing laboratory facilities to gain process development skills. Many of the courses have been designed with curriculum that aligns with the requirements of certifications from professional organizations.

The Bachelor of Science is awarded upon successful completion of a total of 120 units that include 60 lower-division units and ten upper-division major courses, three upper division general education courses, and electives. All courses in the major must be completed with a minimum grade of C.

Program Outcomes

Technology:

1. Identify and critically analyze two viable options for a biomanufacturing process. The critical analysis will include the technical, financial, and environmental impact of the two options as well as the identification of the benefits and disadvantages of each.
2. Produce a professional report and presentation representing their opinion regarding the advantages of selecting a specific biomanufacturing process.

Quality:

3. Demonstrate the skills needed to conduct an investigation and analysis of an Out of Specification deviation that occurred during a production step in the manufacturing of a pharmaceutical protein. The student will be able to determine the impact of the OOS deviation on the batch of protein.
4. Produce a written Corrective Action Preventative Action report in a format standard to the industry. The report will include evidence to justify their conclusions and action plan.
5. Demonstrate the ability to apply Quality by Design (QbD) principles (understanding of the product, the process, and the process control) as adopted by the U.S. Food and Drug Administration (FDA) to design a robust, stable, and controlled manufacturing process for a protein pharmaceutical that can be carried out under current Good Manufacturing Practices (cGMPs). This includes the ability to predetermine values and potential ranges of the critical quality attributes (CQAs) of the product and the critical material attributes (CMAs) of the materials. Students will also be able to determine which parameters would benefit from a Design of Experiments (DoE) approach for their optimization, and construct a strategy for experimental planning and data analysis.
6. Use a quality risk assessment approach to perform a criticality assessment to determine the Critical Process Parameters (CPPs) that would need to be monitored and controlled.

Biotechnology

Program Requirements and Courses

The program has been designed to follow a cohort model: all students take all of the courses in order.

REQUIRED COURSES

First Semester	Units	Third Semester	Units
BIOT 401 Biomanufacturing Process Sciences.....	5	BIOT 405 Emerging Biomanufacturing Technologies.....	3
BIOT 407 Advanced Topics in Quality Assurance and ..		BIOT 406 Supply Chain and Enterprise Resource	
Regulatory Affairs.....	4	Planning	3
ENGL 400 Advanced Technical Writing: Writing in the		BIOT 408 Six Sigma and Lean Manufacturing	4
Scientific Professions.....	3	PHIL 400 Bioethics	3
Second Semester	Units	Fourth Semester	Units
BIOT 402 Design of Experiments for		BIOT 409 Methods in Quality Improvements,	
Biomanufacturing	4	Investigations and Audits	4
BIOT 403 Design of Biomanufacturing Facilities, Critical .		BIOT 410 Emerging Trends in Biomanufacturing	
Utilities, Processes, and Equipment.....	4	Quality	3
BIOT 404 Bioprocess Monitoring and Control	5	BUS 400 Project Management	3
		Total Units	48 Units

Biomanufacturing Program Eligibility Requirements

The Biomanufacturing Bachelor of Science program admits students once per year in the fall. Eligibility requirements, application process, and related information is available online at <http://www.solano.edu/biomanufacturing>.

All of the following requirements must be met in order to apply to the Biomanufacturing program. For any questions about these items, meet with an Academic Counselor. For counseling information, please visit

<http://www.solano.edu/counseling/>.

1. Overall cumulative grade point average (GPA) of 2.5 for ALL college coursework.
2. Completion of, or current Spring semester enrollment in Biomanufacturing Program
Prerequisites:
Courses must be completed with a minimum grade of C and with a combined GPA of 2.5

BIO 002 Cell and Molecular Biology	5
BIOT 001 Principles of Biotechnology.....	3
BIOT 052 Business, Regulatory, and Quality Practices in Biotechnology	3
BIOT 062 Cell Culture and Protein Recovery.....	4
BIOT 063 Biotechnology Instrumentation: Quality Control & Genetic Engineering	4
CHEM 001 General Chemistry I	5
MATH 011 Elementary Statistics.....	4
3. Completion of lower division IGETC or CSU General Education Breadth.
4. Applicants who have attended college outside the United States must have transcripts evaluated by a National Association of Credential Evaluation Services (NACES) approved independent agency, demonstrating equivalency to the Program Eligibility requirements (1, 2, & 3).
5. One Statement of Interest, submitted with your application, explaining why you are interested in the program. Topic below:

Write a Statement of Interest that explains why you would like to complete the Bachelor of Science degree in Biomanufacturing. In this essay, state how your background in the prerequisite courses and/or any job experience has prepared you to succeed in this rigorous program. Emphasize your laboratory background. Include any life experience, special circumstances or barriers that you had to overcome while completing the prerequisite courses.
6. Submit unofficial Transcripts

Biotechnology

Steps for Completing the Application Process

1. New or Returning Solano Community College Students apply to SCC

(Students currently enrolled in classes go to Step 2)

- a. Students who have never attended Solano Community College or are former students (returning SCC students who are not currently enrolled in classes) must submit a current SCC application for admission. Access the SCC home page, www.solano.edu, and click on the yellow "APPLY NOW!" button.
- b. After submitting the SCC application for admission, via CCCApply, allow 30 minutes for processing. An email will be sent to the email address provided in the application and will include the applicant's SCC ID number, username and password for their MySolano account. When completing a new application to Solano, if the applicant previously had an ID number, the system will re-activate that same ID number. The applicant will need their SCC ID number to complete the Biomanufacturing application.

2. Complete the Biomanufacturing Program Application

- a. The applicant must have their SCC ID number, unofficial transcripts (official transcripts will be required upon acceptance into the program), and Statement of Interest ready.
- b. All required information for admission to the Biomanufacturing Program must be submitted through the link provided on our webpage.

3. Once Biomanufacturing Program Application is Submitted

- a. All correspondence regarding the application status will be sent to the email address provided on the application. Applicants will not receive any paper or phone verification regarding their status. The applicant must update their information in MySolano if there is a change in email address.
- b. New student applications for fall semester enrollment will be evaluated beginning March 31st of each year. Incomplete applications will NOT be accepted.

Accepted Applicant Requirements

1. Once accepted to the Biomanufacturing program one original official transcript in a sealed envelope from each institution attended, including Solano Community College, must be submitted to the Office of Admissions and Records, prior to being granted permission to enroll and register for classes in the program.

Please send transcripts from institutions from within the US to:

Solano Community College

Admissions and Records

Attn: Biomanufacturing Baccalaureate Admissions

4000 Suisun Valley Road

Fairfield, CA 94534-3197

Foreign Transcripts:

All foreign transcripts must be evaluated by a NACES agency for determining U.S. equivalency. ***IF foreign courses were completed or degree earned**, the evaluation must state its equivalency to Program Eligibility requirements (1, 2, & 3). A list of approved agencies can be found in the Admissions and Records Office.

2. If the applicant received notification that they have been accepted into the program, a Biomanufacturing Admitted Student Information Session must be completed before their cohort program begins. A schedule will be made available through the School of Math and Science, Fairfield Campus.
3. Upon completion of the Admitted Student Information Session, the student must schedule an Advisement Session prior to registering for classes. Students will meet with an Academic Counselor to develop a Student Education Plan (SEP) during the Advisement Session.

Cost for Biomanufacturing Bachelor of Science Degree

Lower division courses (numbered 001-399/500+) cost \$46 per unit. Non-resident (out-of-state and International students) tuition fees cost \$304 per unit with an \$11.00 per unit nonresidential capital outlay fee.

Upper division courses (numbered 400-499) cost \$130 per unit. The additional fee for upper division units of \$84 cannot be covered by the California College Promise Grant (formerly BOG Fee Waiver).

Biotechnology

Industrial Biotechnology

Associate in Science

Program Description

This program prepares graduates to work in the biotechnology industry as production technicians. A production technician operates and maintains the equipment used to manufacture protein pharmaceuticals or other products. Students will grow bacterial, yeast, and mammalian cells and recover the proteins that they produce. They will follow good manufacturing practices by maintaining records in order to comply with quality assurance procedures and government regulations. Students in the program must be able to adjust their time to a flexible schedule.

The Associate in Science can be obtained upon completion of the 22-24 unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Industrial Biotechnology Associate in Science will be able to:

1. Explain how the structure and function of protein pharmaceuticals and evaluate which protein properties a production facility can exploit to purify a particular protein from other cellular components.
2. Construct a pathway analyzing how a drug or biologic is produced by genetically engineered cells and subsequently purified.
3. Explain how the manufacturer of pharmaceuticals is regulated by the Food and Drug Administration and other international regulatory agencies and how quality systems assure the safety, purity, identity, consistency, potency, and stability of a product.

REQUIRED COURSES	Units
BIOT 001 Principles of Biotechnology.....	3
BIOT 052 Business, Regulatory and Quality Practices in Biotechnology	3
BIOT 062 Cell Culture and Protein Recovery	4
BIOT 063 Biotechnology Instrumentation: Quality Control & Genetic Engineering.....	4
Select Option A or Option B	8-10
Required Major Total Units	22-24

Option A	Units
BIO 002 Principles of Cell and Molecular Biology.....	5
CHEM 001 General Chemistry I	5
Option B	
Units	
BIO 014 Principles of Microbiology	4
CHEM 010 Intermediate Chemistry.....	4

NOTE: Prior knowledge and use of computers is advised, including word processing, spreadsheets, and databases.

Biotechnology

Industrial Biotechnology

Certificate of Achievement

Program Description

This program prepares graduates to work in the biotechnology industry as production technicians. A production technician operates and maintains the equipment used to manufacture protein pharmaceuticals and other products. Students will grow bacterial, yeast, and mammalian cells and recover the proteins that they produce. They will follow good manufacturing practices by maintaining records in order to comply with quality assurance procedures and government regulations. Students in the program must be able to adjust their time to a flexible schedule.

The Certificate of Achievement can be obtained upon completion of the 18-24-unit major. Each course must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Industrial Biotechnology Certificate of Achievement will be able to:

1. Explain how the structure and function of protein pharmaceuticals and evaluate which protein properties a production facility can exploit to purify a particular protein from other cellular components.
2. In preparation to working at a biotechnology company, a successful student should be able to construct a pathway analyzing how a drug of biologic is produced by genetically engineered cells and subsequently purified.
3. Explain how the manufacturer of pharmaceuticals is regulated by the Food and Drug Administration and other international agencies and how quality systems assure the safety, purity, identity, consistency, potency, and stability of a product.

REQUIRED COURSES.....Units

BIOT 001 Principles of Biotechnology..... 3

BIOT 052 Business, Regulatory and quality Practices
in Biotechnology 3

BIOT 062 Cell Culture and Protein Recovery 4

BIOT 063 Biotechnology Instrumentation:
Quality Control & Genetic Engineering..... 4

Choose Option A, B or C 4-10

Required Major Total Units.....18-24

Option A.....Units

BIO 002 Principles of Cell and Molecular Biology..... 5

CHEM 001 General Chemistry I 5

Option BUnits

BIO 014 Principles of Microbiology 4

CHEM 010 Intermediate Chemistry..... 4

Option CUnits

BIOT 160 Basic Concepts/Methods in
Biotechnology 4

NOTE: Prior knowledge and use of computers is advised, including word processing, spreadsheets, and databases.

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Industrial Biotechnology."

Biotechnology

Biotechnology Laboratory Assistant

Certificate of Achievement

Program Description

This program serves as a Bridge to Biosciences, enabling graduates to enter the Solano College Industrial Biotechnology program or to enter an entry level position in a biotechnology company. It serves as a stackable certificate that may be followed by the Industrial Biotechnology Certificate. A Laboratory Assistant may be hired by life science related companies to prepare buffers, prepare media, operate routine laboratory equipment, and to clean glassware.

The Certificate of Achievement can be obtained upon completion of the 14-unit major with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Biotechnology Laboratory Certificate of Achievement will be able to:

1. Demonstrate the ability to perform routine laboratory techniques including buffer preparation, media preparation, and aseptic microbial culture.
2. Demonstrate the ability to perform mathematical (algebraic) operations required for calculations important in chemistry and biology.
3. Demonstrate the ability to read and write in a range of writing style categories typical of laboratory and scholarly environments, including lab reports, expository texts, and research-based arguments.

REQUIRED COURSES	Units
BIOT 160 Basic Concepts/Methods in Biotechnology	4
MATH 330 Elementary Algebra	5
ENGL 360 Focused English Fundamentals	5
Total Units:	14

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Biotechnology Laboratory Assistant."

Biotechnology

Stem Cells and Cell-Based Technologies

Certificate of Achievement

Program Description

This program trains students to enter the emerging fields of commercial stem cell production and other cell production technologies, such as CAR-T, cancer therapies, and other cell-based therapies.

The Certificate of Achievement can be obtained by completing the 24-29-unit major. All courses must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Stem Cells and Cell-Based Technologies Certificate of Achievement will be able to:

1. Apply knowledge of cell biology concepts to prepare and maintain cells in culture while maintaining sterility – stem cells must be able to be cultured in an undifferentiated state or induced to differentiate into different cell types.
2. Apply knowledge of the regulation of the Food and Drug Administration and other international regulatory agencies of cell-based therapeutic agents.
3. Follow the appropriate procedures to maintain controlled documents: In a research setting, students will keep a research laboratory notebook using a standard legal format. In a manufacturing setting, students will keep the appropriate controlled documents (batch production records) required to comply with current Good Manufacturing Practice

REQUIRED COURSES Units

BIOT 001 Principles of Biotechnology..... 3

BIOT 052 Business and Regulatory Practices in
Biotechnology 3

BIOT 057 Synthetic Biology and Algae Biotechnology 3

BIOT 060 Mammalian Cell Culture 3

BIOT 061 Stem Cells and Cell-Based Technologies 3

One course from Biomanufacturing List..... 1-4

One course from Biology List..... 4-5

One course from the Chemistry List 4-5

Total Units:24-29

Biomanufacturing: Units

BIOT 062 Cell Culture and Protein Recovery 4

BIOT 065 Biomanufacturing Fundamentals 1

Biology Units

BIO 002 Cell and Molecular Biology 5

BIO 014 Principles of Microbiology 4

Chemistry Units

CHEM 001 General Chemistry 5

CHEM 010 Intermediate Chemistry 4

CHEM 012 Chemistry for the Health Sciences 5

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Stem Cells and Cell-Based Technologies."

Business Department

DEGREES:

Business Administration (AS-T)
Business, General (AS)
Business-Insurance: Property & Casualty (AS)
Management (AS)
Retail Management (AS)
Small Business Management (AS)
Marketing (AS)
Administrative Assistant (AS)

CERTIFICATES OF ACHIEVEMENT

Administrative Assistant
Business, General
Business-Insurance: Property & Casualty
Management
Retail Management
Small Business Management
Marketing
Administrative Assistant
Medical Front Office Clerk

JOB-DIRECT LOW UNIT CERTIFICATES

Insurance Specialist

COURSES:

BUS (Business)
BSOT (Office Technology/
Business Information Worker)
MGMT (Management)
MKT (Marketing)
OT (Office Technology)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: LaVonne Slaton
Jeanette McCarthy

P.A.C.E. - BUSINESS AND MANAGEMENT - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE (All Programs)

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on other's instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE (Administrative Assistant)

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Guided Pathways:

BUSINESS ADMINISTRATION AS-T

Associate in Science for Transfer | GE Pattern: IGETC | Program Total Units: 61

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Administrative Service Manager • General Operations Manager • Industrial Production Manager • Management • Analysis Sales Manager

What your potential plan could look like...

1 First Semester Total Recommended Units: 16

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- ACCT 001 Introduction to Accounting 4 units
- MATH 011 Statistics (IGETC 2) 4 units
- BUS 005 Introduction to Business 3 units

3 Third Semester Total Recommended Units: 12

- ECON 001 Principles of Econ, Macroeconomics (IGETC 4) 3 units
- BUS 018 Legal Environment 3 units
- IGETC 5B Suggested: BIO 012, 016, 018, 020, OR 025 3 units
- HIST 017, 018, 028, 029, or 037 (IGETC 3B/American Institutions) 3 units

Square, darker color: Required Courses/
Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2 Second Semester Total Recommended Units: 15

- ENGL 002 or 004 (IGETC 1B) 4 units
 - CIS 001 or CIS 050* Intro Computer Science or Microcomputer Apps* 3 units
 - ACCT 002 Managerial Accounting 3 units
 - IGETC 5A/5C Suggested ASTR 010 & 020, GEOL 001 & 002, or GEOG 001 & 001L 4 units
- *Applies To CSU Transfer Only

4 Fourth Semester Total Recommended Units: 12

- ECON 002 Principles of Econ, Microeconomics (IGETC 4) 3 units
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units
- MATH 030 Analytical Geometry and Calculus 3 units
- ART 012, CINA 011, MUSC 013, or THEA 013 (IGETC 3A/Cross Cultural) 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer) Total Recommended Units: 6

- COMM 001, 002, or 006 (IGETC 1C) 3 units
- IGETC 3A or 3B 3 unit

NOTE: Whether Or Not Student Has Taken Foreign Language Will Determine If Anything Is Needed This Semester For "IGETC 3A or 3B."

Business

Associate in Science in Business Administration for Transfer (ADT: A.S.-T)

Program Description

This curriculum is designed to provide an opportunity for Business majors to achieve an Associate in Science Degree in Business Administration while completing the requirements for transfer to a California State University (CSU) or other four-year college or university. A baccalaureate degree is recommended preparation for those considering careers in business. Completion of this curriculum will demonstrate commitment to the field and provide comprehensive preparation for upper-division work.

Students who earn the Associate in Science in Business Administration for Transfer will receive guaranteed priority admission to the CSU system, but not to a particular campus or major. Once admitted the student will only be required to complete 60 additional upper-division units to qualify for a BA degree.

To earn the Associate in Science in Business Administration for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Science in Business Administration for Transfer will be able to:

1. Recognize and describe the importance of marketing, law, economics, accounting, business administration, finance, risk analysis, and personnel management in business and formulate hypotheses based on these concepts.
2. Analyze practical business problems and utilize research and critical thinking to evaluate and recommend alternative solutions.
3. Use appropriate computer software to create and or modify relevant business documents.
4. Apply accounting concepts and principles in making business decisions.

REQUIRED COURSES.....Units

ACCT 001 Principles of Accounting – Financial.....	4
ACCT 002 Principles of Accounting – Managerial.....	4
BUS 005 Introduction to Business	3
BUS 018 Legal Environment of Business	3
ECON 001 Principles of Economics (Macroeconomics) ..	3
ECON 002 Principles of Economics (Microeconomics) ...	3
MATH 011 Elementary Statistics.....	4
CIS 001 Introduction to Computer Science	3
or	
CIS 050 Microcomputer Applications	3
Required Major Total Units.....	27

Business

Business, General

Certificate of Achievement and Associate in Science

Program Description

This program is designed for business students planning to transfer to the University of California and/or the California State University systems.

The Certificate of Achievement can be obtained by completing the 23-25-unit major. The Associate in Science can be obtained upon completion of the 23-25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Business, General Certificate of Achievement/Associate in Science will be able to:

1. Recognize and describe the importance of marketing, law, economics, accounting, business administration, finance, risk analysis, and personnel management in business and formulate hypotheses based on these concepts.

REQUIRED COURSES.....	Units
ACCT 001 Principles of Accounting - Financial.....	4
ACCT 002 Principles of Accounting - Managerial.....	4
BUS 005 Introduction to Business	3
BUS 018 Legal Environment of Business	3
CIS 001 Introduction to Computer Science	3
or	
CIS 050 Microcomputer Applications	3
ECON 001 Principles of Economics (Macroeconomics) ..	3
or	
ECON 002 Principles of Economics (Microeconomics) ...	3
3-5 units from List A	3-5
Required Major Total Units.....	23-25

List A (Select 3-5 units)	Units
BUS 092 Business Communication	3
CIS 020 Assembly Programming.....	3
CIS 022 Introduction to Programming.....	3
CIS 023 Data Structures and Algorithms	4
MATH 011 Elementary Statistics.....	4
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
MATH 030 Analytic Geometry and Calculus	3
MATH 031 Analytic Geometry and Calculus.....	3
OCEC 090 Occupational Work Experience	1-8
OCEC 091 General Work Experience	1-6

**Suggested math courses for the major are MATH 011 OR MATH 030.*

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Business, General."

Business

Business-Insurance: Property & Casualty

Certificate of Achievement and Associate in Science

Program Description

This program provides essential background information needed by those wishing to work in an insurance office. Extensive employment opportunities are available in a variety of job areas from sales to accounting to database or project management.

The Certificate of Achievement can be obtained by completing the 31-unit major. The Associate in Science can be obtained upon completion of the 31-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Business-Insurance: Property & Casualty Certificate of Achievement/Associate in Science will be able to:

1. Understand the insurance process, the segments of insurance, and the consequences of insurance contracts in mitigating loss.
2. Understand the risk management techniques available to handle exposure to loss and the use of risk modification.
3. Understand the financial and human consequences of loss. Proper and casualty exposures.
4. Apply the insurance principles in potential and real business and personal loss exposures.
5. Understand the exposures to loss faced by an individual and/or corporation.

REQUIRED COURSES.....Units

ACCT 001 Principles of Accounting - Financial.....	4
BUS 005 Introduction to Business	3
BUS 018 Legal Environment of Business	3
BUS 070 Introduction to Insurance	1
BUS 071 Principles of Property and Liability Insurance..	3
BUS 072 Personal Insurance	3
BUS 073 Commercial Insurance	3
BUS 074 Insurance - Code & Ethics	1
BUS 092 Business Communication	3
CIS 050 Microcomputer Applications	3
CIS 073 Microsoft Excel	3
OCED 090 Occupational Work Experience	1

Required Major Total Units.....31

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Business Insurance: Property & Casualty."

Insurance Specialist

Job-Direct Low Unit Certificate

REQUIRED COURSES.....Units

BUS 070 Introduction to Insurance	1
BUS 071 Principles of Property and Liability Insurance..	3
BUS 072 Personal Insurance	3
BUS 073 Commercial Insurance	3
BUS 074 Insurance—Code & Ethics	1

Total Units.....11

Business

Management

Certificate of Achievement and Associate in Science

Program Description

This program is designed to emphasize training to improve thought processes and to provide familiarity with the analytical tools of management, sound decision-making, and how to get things done through and with people. Also, this option is designed for initial employment upon graduation and for job advancement opportunities.

The Certificate of Achievement can be obtained by completing the 21-unit major. The Associate in Science can be obtained by completing the 21-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Management Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate oral and written skills unique in the business community.
2. Apply leadership, ethical standards, and team building skills necessary for managerial positions in the 21st century.
3. Conduct a personal SWOT analysis for a future small business venture.
4. Design a comprehensive business plan for a future small business venture.
5. Demonstrate the ability to use technology in analyzing and solving business problems.
6. Use basic computation skills to analyze and solve business problems requiring the use of mathematics.

REQUIRED COURSES	Units
<i>(listed in recommended sequence)</i>	
BUS 005 Introduction to Business	3
MGMT 050 Principles of Management	3
MGMT 055 Management/Leadership Skills	3
MGMT 191 Human Relations	3
or	
MGMT 193 Human Resource Management	3
BUS 092 Business Communication	3
CIS 050 Microcomputer Applications	3
BUS 181 Business Mathematics	3
Required Major Total Units	21

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Management."

Business

Management:

Retail Management

Certificate of Achievement and Associate in Science

Program Description

Designed to serve the needs of the employees and employers within the retail industry. The program provides the knowledge and skills needed to prepare students for both entry level jobs and upward mobility opportunities in this dynamic and ever changing segment of our economy. Program emphasis is placed on professional and career development.

The Certificate of Achievement can be obtained by completing the 25-unit major. The Associate in Science can be obtained by completing the 25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Retail Management Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate oral and written skills unique in the business community.
2. Apply leadership, ethical standards, and team building skills necessary for managerial positions in the 21st century.
3. Conduct a personal SWOT analysis for a future small business venture.
4. Design a comprehensive business plan for a future small business venture.
5. Demonstrate the ability to use technology in analyzing and solving business problems.
6. Use basic computation skills to analyze and solve business problems requiring the use of mathematics.

REQUIRED COURSES Units

(listed in recommended sequence)

BUS 092 Business Communication	3
CIS 050 Microcomputer Applications	3
ACCT 001 Principles of Accounting - Financial	4
MKT 171 Introduction to Marketing	3
MKT 174 Retail Merchandising.....	3
MGMT 191 Human Relations	3
MGMT 193 Human Resource Management	3

MGMT 050 Principles of Management

or

MGMT 055 Management/Leadership Skills

Required Major Total Units25

NOTE: This program is approved by the Western Association of food chains for awarding of the industry WAFC Certificate.

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Retail Management."

Business

Management:

Small Business Management

Certificate of Achievement and Associate in Science

Program Description

This program is designed for those planning to start their own business, buy an existing business, buy a franchise, or who already own their own business. This option emphasizes learning the concepts and practical skills necessary to be a successful, professional entrepreneur. Specifically designed for working adults, the courses emphasize a systematic approach to business which focuses on the integration of theoretical and practical skills.

The Certificate of Achievement can be obtained by completing the 28-unit major. The Associate in Science can be obtained by completing the 28-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Small Business Management Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate oral and written skills unique in the business community.
2. Apply leadership, ethical standards, and team building skills necessary for managerial positions in the 21st century.
3. Conduct a personal SWOT analysis for a future small business venture.
4. Design a comprehensive business plan for a future small business venture.
5. Demonstrate the ability to use technology in analyzing and solving business problems.
6. Use basic computation skills to analyze and solve business problems requiring the use of mathematics.

REQUIRED COURSES	Units
<i>(listed in recommended sequence)</i>	
MGMT 055 Management/Leadership Skills	3
MKT 174 Retail Merchandising	3
ACCT 050 Computer Accounting	3
BUS 005 Introduction to Business	3
BUS 018 Legal Environment of Business	3
BUS 181 Business Mathematics	3
BUS 182 Small Business Mathematics	1
BUS 092 Business Communication	3
6 units from List A	6
Required Major Total Units	28

List A: (select 6 units)	Units
ACCT 001 Principles of Accounting - Financial	4
ACCT 002 Principles of Accounting - Managerial	4
BUS 060 Introduction to International Business	3
ECON 001 Principles of Economics (Macroeconomics) ..	3
ECON 002 Principles of Economics (Microeconomics) ...	3
MGMT 055 Management/Leadership Skills	3
MGMT 191 Human Relations	3
MKT 173 Principles of Selling	3
MKT 174 Retail Merchandising.....	3
OCED 090 Occupational Work Experience	2-3
OCED 091 General Work Experience	2-3
OT 054A Beginning Keyboarding A	1.5
OT 054B Beginning Keyboarding B	1.5
OT 055A Intermediate Keyboarding/ Word Processing A	1.5
OT 055B Intermediate Keyboarding/ Word Processing B	1.5

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Small Business Management."

Business

Marketing

Certificate of Achievement and Associate in Science

Program Description

Marketing involves a variety of activities including selection of target customer, product development, promotion, pricing and distribution. It applies equally to services, ideas, non-profit organizations, and the individual.

The Certificate of Achievement can be obtained by completing the 30-unit major. The Associate in Science can be obtained by completing the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Marketing Certificate of Achievement/Associate in Science will be able to:

1. Apply marketing research principles to a company's product or service.
2. Apply advertising principles to promote a firm's image and product/service offering.
3. Develop a marketing plan for a business using the fundamental elements of the marketing mix.

REQUIRED COURSES	Units
BUS 005 Introduction to Business	3
BUS 018 Legal Environment of Business	3
BUS 181 Business Mathematics	3
CIS 001 Introduction to Computer Science	3
or	
CIS 050 Microcomputer Applications	3
ECON 002 Principles of Economics (Microeconomics) ..	3
MGMT 050 Principles of Management	3
or	
MGMT 191 Human Relations	3
MKT 171 Introduction to Marketing	3
MKT 172 Market Management and Planning	3
MKT 173 Principles of Selling	3
MKT 174 Retail Merchandising	3
Required Major Total Units	30

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Marketing."

Business

Office Technology: Administrative Assistant

Certificate of Achievement and Associate in Science

Program Description

This program is designed to develop technical and communication skills required for management support. Computer literacy, keyboarding skills, document formatting, proofreading and grammatical skills, presentation skills, spreadsheet, and organizational skills are emphasized.

The Certificate of Achievement can be obtained by completing the 30.5-unit major. The Associate in Science can be obtained by completing the 30.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Administrative Assistant Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate mastery of the alpha and numeric typewriting keyboard.
2. Demonstrate mastery in the keyboarding of correspondence, manuscripts, and compositions under timed conditions with established accuracy and formatting standards using proper techniques.
3. Develop a high degree of competency and a broad knowledge of skills as they relate to general office procedures.

REQUIRED COURSES: Units

(listed in recommended sequence)

CIS 066 Microsoft Word	3
CIS 001 Introduction to Computer Science	3
or	
CIS 050 Microcomputer Applications	3
BUS 092 Business Communication	3
CIS 073 Microsoft Excel	3
OT 151 Office Systems & Procedures	3
OCED 090 Occupational Work Experience	1
CIS 090 Introduction to PowerPoint	1.5
CIS 091 Microsoft Outlook	1.5
OT 054A Beginning Keyboarding A	1.5
OT 054B Beginning Keyboarding B	1.5
OT 055A Intermediate Keyboarding/ Word Processing A	1.5
OT 055B Intermediate Keyboarding/ Word Processing B	1.5
OT 162 Ten-Key	1
BUS 097 Work Readiness	1.5
BUS 181 Business Mathematics	1
OT 056 Business Grammar and Proofreading	2

Required Major Total Units:30.5

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Office Technology Administrative Assistant."

Business

Office Technology:

Medical Front Office Clerk

Certificate of Achievement

Program Description

The goal of this program is to prepare students to enter the health care industry at an entry-level position in two semesters.

The Certificate of Achievement can be obtained upon completion of the 26-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Medical Front Office Clerk Certificate of Achievement will be able to:

1. Demonstrate alpha and numeric keyboarding skills at 40 wpm with established accuracy.
2. Demonstrate computer literacy and word processing skills related to formatting business documents.
3. Use medical terminology for human diseases.
4. Demonstrate the differences in medical insurance and explain the duties of a medical office assistant, HIPPA.
5. Demonstrate ability to type medical documents and facility at using medical software such as Medisoft.
6. Employ the necessary soft skills to apply and find employment and keep it.

REQUIRED COURSES: Units

(listed in recommended sequence)

Semester 1: Units

NURS 111 Medical Terminology	3
OT 060 Administrative Medical Assistant	3
CIS 066 Microsoft Word.....	3
OT 054A Beginning Keyboarding A.....	1.5
OT 054B Beginning Keyboarding B	1.5
CIS 091 Microsoft Outlook.....	1.5

Semester 2: Units

BUS 097 Work Readiness.....	1.5
OT 056 Business Grammar and Proofreading	2
OT 059 Medical Keyboarding and Computer Applications	3
OT 061 Health Insurance	3
OT 101 Study of Human Diseases for Medical Assistants	3
Required Major Total Units.....	26

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Medical Front Office Clerk."

Chemistry Department

DEGREES:

Chemistry (AS)

COURSES:

CHEM (Chemistry)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact:

Kathleen "Kathy" Conrad

Vahid Eskandari

John Higashi

Kiran Kaur

Oanh Lam

Maria Santiago

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Guided Pathways: **CHEMISTRY AS**

Associate in Science | GE Pattern: IGETC | Program Total Units: 61 - 63

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Biochemist and Biophysicist • Biochemical Engineer • Chemist • Chemical Engineer • Chemistry Teacher • Chemical Plant and System Operator

What your potential plan could look like...

1 First Semester Total Recommended Units: 15

- ENGL 001
College Composition (IGETC 1A) 4 units
- LR 010
Introduction to Library Research 1 unit
- MATH 020
Analytic Geometry & Calculus (IGETC 2) 5 units
- CHEM 001
General Chemistry I (IGETC 5A/5C) 5 units

3 Third Semester Total Recommended Units: 14

- CHEM 003
Organic Chemistry I 5 units
- COMM 001, 002, or 006
(IGETC 1C) 3 units
- ART 012, CINA 011, MUSC 013, or THEA 013
(IGETC 3A/Cross Cultural) 3 units
- HIST 017, 018, 028, 029, or 037
(IGETC 3B/American Institutions) 3 units

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester Total Recommended Units: 14

- CHEM 002
General Chemistry II 5 units
- PHYS 002 or PHYS 006
Gen Phys non-calculus or Phys for Science Engineering I* 5 units
- ENGL 002 or 004
(IGETC 1B) 4 units

4 Fourth Semester Total Recommended Units: 14-16

- CHEM 004
Organic Chemistry II 5 units
- IGETC 5B
Suggested: BIO 002 3 - 5 units
- IGETC 3A or 3B 3 units
- IGETC 4 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer) Total Recommended Units: 6

- PLSC 001 or 005
(IGETC 4/American Institutions) 3 units
- (IGETC 4)
Suggested: PSYC 001 or SOC 001 3 units

*If you plan to transfer, please see a counselor to ensure you are taking the correct courses. A CHEM BA degree will require PHYS 002; a CHEM BS degree will require MATH 021 and PHYS 006 (and possibly additional courses not listed on this template).

Chemistry

Chemistry

Associate in Science

Program Description

This program is designed to foster an understanding of the fundamental principles of chemistry in a variety of applications. Students will learn how chemical knowledge is derived, theorized, and applied in solving problems in everyday life.

The Associate in Science can be obtained by completing the 26-30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Chemistry Associate in Science will be able to:

1. Demonstrate skills for various lab techniques.
2. Formulate and write names applying International Union of Pure and Applied Chemistry rules for chemical compounds.
3. Interpret and analyze chemical data.
4. Identify and write different types of chemical reactions.

REQUIRED COURSES	Units
CHEM 001 General Chemistry I	5
CHEM 002 General Chemistry II	5
CHEM 003 Organic Chemistry I	5
CHEM 004 Organic Chemistry II	5
BIO (any course except 048 or 098).....	3-5
One course from List A	3-5
Required Major Total Units.....	26-30

List A: (select one course)	Units
PHYS 002 General Physics (Non-calculus)	5
PHYS 006 Physics for Science and Engineering.....	5
PHYS 010 Descriptive Physics	3

Child Development and Family Studies Department

DEGREES:

Early Childhood Education (AS-T)
Early Childhood Education (AS)

CERTIFICATES OF ACHIEVEMENT

Associate Teacher
Early Childhood Education
Infant/Toddler Teacher

COURSES:

CDFS (Child Development and Family Studies)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact:

Anthony "Tony" Ayala

Amy Obegi

Tasha Smith

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

Guided Pathways:

EARLY CHILDHOOD EDUCATION AS-T

Associate in Science for Transfer | GE Pattern: CSU OPT C | | Program Total Units: 61 - 61.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Childcare Worker • Preschool Teacher • Kindergarten Teacher • Child, Family, or School Social Worker • Education Administrator

What your potential plan could look like...

1

First Semester

Total Recommended Units: 14

- CDFS 038** 3 units
Child, Growth & Development (CSU GE E)
- CDFS 062** 3 units
Intro to Early Childhood Education
- ENGL 001** 4 units
College Composition (CSU GE A2)
- LR 010** 1 unit
Introduction to Library Research
- CSU GE C1** 3 units

3

Third Semester

Total Recommended Units: 13-13.5

- CDFS 054 or NUTR 054** 3 units
Child Health, Safety, and Nutrition
- CDFS 064** 3 units
Observation & Assessment
- CDFS 053** 3 units
Teaching in a Diverse Society (Cross-cultural)
- BIO 015 or 016 & 016L** 4 - 4.5 units
(CSU GE B2/B3)

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- COMM 001, 002, or 006** 3 units
(CSU GE A1)
- HIST 017, 018, 028, 029, or 037** 3
(CSU GE C2/American Institutions)

2

Second Semester

Total Recommended Units: 13-14

- ENGL 002 or 004** 4 units
(CSU GE A3)
- MATH 012 or MATH 011** 3 - 4 units
(CSU GE B4)
- CDFS 063** 3 units
Intro to Curriculum
- CDFS 050** 3 units
Child, Family, and Community (CSU GE D)

4

Fourth Semester

Total Recommended Units: 15v

- PLSC 001 or 005** 3 units
(CSU D/American Institutions)
- CDFS 065** 3 units
Early Childhood Education Practicum 1
- (CSU GE B1)** 3 units
Suggested: ASTR, GEOL, GEOG
- (CSU GE D)** 3 units
- (CSU GE C1 or C2)** 3 units

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

Child Development and Family Studies

Associate in Science in Early Childhood Education for Transfer (ADT: A.S.-T)

Program Description

Successful completion of this major prepares students to work in the field of early childhood education. Students will learn about child development, health and safety, observation and assessment, and techniques for effective classroom teaching including child guidance, curriculum development, and educating in a culturally respectful manner. One semester of practicum is required. This program aligns with the statewide Early Childhood Education Curriculum Alignment Project (CAP) which is designed to aid in student transfer. The CAP courses include: CDFS 038, CDFS 050, CDFS 053, CDFS 054 (or NUTR 054), CDFS 062, CDFS 063, CDFS 064, and CDFS 065.

The Associate in Science in Early Childhood Education for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Early Childhood Education or Child Development at a CSU campus. Students completing and Associate in Science in Early Childhood Education for Transfer are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the Associate in Science in Early Childhood Education for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for Early Childhood Education degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Science in Early Childhood Education for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Science in Early Childhood Education for Transfer will be able to:

1. Demonstrate an understanding of child development theory, current research, and trends in the field, and their application to responsive practice in early care settings.
2. Demonstrate an understanding of the context of individual development including the centrality of family, culture, and community through developing techniques for creating meaningful relationships between home and school.
3. Develop curriculum and early care environments that are derived from unbiased observation and assessment of children's interests and developmental levels.
4. Demonstrate reflective practice in their work with young children by building awareness of self as teacher, child as learner, and early childhood pedagogy.

REQUIRED COURSES	Units
CDFS 038 Child Growth and Development.....	3
CDFS 050 Child, Family and Community.....	3
CDFS 053 Teaching in a Diverse Society.....	3
CDFS 054 Child Health, Safety, and Nutrition.....	3
CDFS 062 Introduction to Early Childhood Education: Principles and Practices	3
CDFS 063 Introduction to Curriculum.....	3
CDFS 064 Observation and Assessment	3
CDFS 065 Early Childhood Education Practicum I.....	4
Required Major Total Units.....	25

The Associate in Science in Early Childhood Education for Transfer requires 25 core units. Some of the units may double count for general education and the major (CDFS 038, CDFS 050). It is recommended that full time students enroll in CDFS 038, CDFS 050, and CDFS 062 in their first semester. Second semester students should take CDFS 054, CDFS 063, and CDFS 064. In the second year students should take CDFS 065, CDFS 053, and complete their other general education requirements. Practicum placements (CDFS 065) will be made at the Solano College Children's Program. Prior to the first week of enrollment in practicum, students will be required to pass a criminal record check and be fingerprinted at the District's expense.

Child Development and Family Studies

Early Childhood Education

Certificate of Achievement and Associate in Science

Program Description

This program offers comprehensive study of child development, strategies for child guidance, techniques for effective classroom interaction with emphasis on the child in the context of family and culture, and curriculum that enhances the development of the whole child. The Child Development and Family Studies Department is a participant in the Curriculum Alignment Project (CAP). A key effort of the Curriculum Alignment Project is to facilitate the transfer of the courses below as an integrated course of study promoting access to ongoing education and degree attainment. These courses will easily transfer between many California State Universities. The CAP courses include: CDFS 038, CDFS 050, CDFS 053, CDFS 054 (or NUTR 054), CDFS 062, CDFS 063, CDFS 064, and CDFS 065.

The Certificate of Achievement can be obtained upon successful completion of the 35-unit major. The Associate in Science can be obtained by completing the 35-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Early Childhood Education Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate an understanding of child development theory, current research, and trends in the field, and their application to responsive practice in early care setting.
2. Implement techniques that strengthen home and school partnerships in order to gain an ecological perspective of children's development.
3. Develop curriculum and early care environments that are derived from unbiased observation and assessment of children's interests and developmental levels.
4. Demonstrate reflective practice in their work with young children by building awareness of self as teacher, child as learner, and early childhood pedagogy.

REQUIRED COURSES	Units
CDFS 038 Child Growth and Development	3
CDFS 050 Child, Family and Community	3
CDFS 053 Teaching in a Diverse Society	3
CDFS 054 Child Health, Safety, and Nutrition	3
or	
NUTR 054 Child Health, Safety, and Nutrition	3
CDFS 062 Introduction to Early Childhood Education: Principles and Practices	3
CDFS 063 Introduction to Curriculum	3
CDFS 064 Observation and Assessment	3
CDFS 065 Early Childhood Education Practicum I	4
CDFS 066 Early Childhood Education Practicum II	4
CDFS 077 Art and Scientific Inquiry for ECE	3
CDFS 078 Literacy and Music for ECE	3
Required Major Total Units	35

Full-time students are advised to enroll in CDFS 038, CDFS 050, CDFS 062, and a required curriculum course (CDFS 077 or 078) during their first semester. Second semester students should take CDFS 054, CDFS 063, and CDFS 064. In the third and fourth semesters, students should take practicum (CDFS 065 and CDFS 066), CDFS 053, and a required curriculum course (CDFS 077 or 078). Students will spend their first semester of ECE Practicum I (CDFS 065) assigned to the Solano College Children's Program. A second semester may be spent either on campus or off campus (CDFS 066). Off campus placements will be made with an approved teacher from the Early Childhood Mentor Project. Prior to the first week of enrollment in CDFS 065 or 066, students will be required to pass a criminal record check and be fingerprinted at District expense.

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Early Childhood Education."

Child Development and Family Studies

Associate Teacher

Certificate of Achievement

Program Description

The Associate Teacher Certificate of Achievement meets the education requirements for the associate teacher level of the Child Development Permit Matrix issued by the State of California Commission on Teacher Credentialing and Community Care Licensing, Title 22 requirements for a fully qualified teacher. After meeting additional experience requirements, graduates are qualified to apply for a Child Development Permit, which is required to work in federal and state funded programs for children aged 0-5.

A Certificate of Achievement can be obtained by completing the 12-unit major with a minimum grade of C in each course or a P if taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Associate Teacher Certificate of Achievement will be able to:

1. Understand and apply developmental theories from conception through adolescence.
2. Design a play based curriculum which supports children using developmental, inclusive and anti-bias principles.
3. Identify and analyze quality early childhood practices including professionalism, self-reflection, play-based holistic learning, multiculturalism, and relationship building to ascertain their impact on children's development.
4. Demonstrate the ability to access community resources which support and empower children and families.

REQUIRED COURSES	Units
CDFS 038 Child Growth and Development	3
CDFS 050 Child, Family and Community.....	3
CDFS 062 Introduction to Early Childhood Education: Principles and Practices	3
CDFS 063 Introduction to Curriculum.....	3
Required Major Total Units.....	12

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Associate Teacher."

Child Development and Family Studies

Infant/Toddler Teacher

Certificate of Achievement

Program Description

This program provides foundational skills in the care of infants and toddlers. Students gain knowledge of young children's social and emotional needs, how to create partnerships with families to provide culturally consistent and respectful care, and how to develop holistic play-based curriculum. Students will learn how to develop child care environments that are responsive to the needs of young children and skills for responsive interactions. Learning will be grounded in child development theories and knowledge of developmentally appropriate practice.

Students who complete the Certificate of Achievement meet the requirements to become a fully qualified associate teacher according to the Child Development Permit Matrix issued by the State of California Commission on Teacher Credentialing and Community Care Licensing, Title 22. Additionally, students will have the infant and toddler units mandated by Title 22 to work with children under 3 years of age. Students who wish to work with young children must pass a criminal record fingerprint clearance and show proof of immunization at the time of employment.

The Certificate of Achievement can be obtained by completing the 18-unit major with a minimum grade of C in each course or a P if taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Associate Teacher Certificate of Achievement will be able to:

1. Understand and apply developmental theories from conception through adolescence.
2. Design a play based curriculum which supports children using developmental, inclusive and anti-bias principles.
3. Identify and analyze quality early childhood practices including professionalism, self-reflection, play-based holistic learning, multiculturalism, and relationship building to ascertain their impact on children's development.
4. Demonstrate the ability to access community resources which support and empower children and families.

REQUIRED COURSESUnits

CDFS 038 Child Growth and Development.....	3
CDFS 050 Child, Family and Community.....	3
CDFS 062 Introduction to Early Childhood Education: Principles and Practices	3
CDFS 063 Introduction to Curriculum.....	3
CDFS 075 Care of Infants and Toddlers: Social and Emotional Foundations.....	3
CDFS 076 Care of Infants and Toddlers: Curriculum and Environments	3
Required Major Total Units.....	18

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Infant/Toddler Teacher."

Communication Studies Department

DEGREES:

Communication Studies (AA-T)

CERTIFICATES OF ACHIEVEMENT

Sports Broadcasting

COURSES:

COMM (Communication Studies)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer

Faculty Contact:

Evangeline East

Douglas Mungin

Greg Poff

Janene Whitesell



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Guided Pathways:

COMMUNICATION STUDIES AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61 - 64.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Speech-Language Pathologist • Communication Teacher • Media and Communication • Public Relations Specialist

What your potential plan could look like...

1 First Semester

Total Recommended Units: 14 - 15

- ENGL 001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- MATH 011 or 012 3 - 4 units
(IGETC 2B)
- COMM 001 3 units
Intro to Public Speaking (IGETC 1C)
- COMM 012 3 unit
Intercultural Comm (IGETC 4/Cross-cultural)

3 Third Semester

Total Recommended Units: 12-14

- COMM 002 3 units
Fundamentals of Persuasive Speaking
- (IGETC 3A) 3 units
- HIST 017, 018, 028, 029, or 037 3 units
(IGETC 3B/American Institutions)
- ASL 001, FREN 001, or 3 - 5 units
SPAN 001, or UC Transferable Elective *

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester

Total Recommended Units: 14-14.5

- ENGL 002 or 004 4 units
(IGETC 1B)
- COMM 006 3 units
Argumentation & Debate
- COMM 010 3 units
Interpersonal Communication
- (IGETC 5A/5C) Suggested: 4 - 4.5 units
ASTR 010 & 020, GEOL 001 & 002, or GEOG 001/ 001L

4 Fourth Semester

Total Recommended Units: 15

- PLSC 001 or 005 3 units
(IGETC 4/American Institutions)
- (IGETC 5B) Suggested: 3 units
BIO 012, 016, 018, 020, OR 025
- (IGETC 3A or 3B) 3 units
- UC Transferable Elective 3 units
- UC Transferable Elective 3 units

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- PSYC 001 or SOC 001 3 units
(IGETC 4)
- UC Transferable Elective 3 unit

Communication Studies

Associate in Arts in Communication Studies for Transfer (ADT: A.A.-T)

Program Description

The Associate in Arts in Communication Studies for Transfer Program is broad-based and concerned with the preparation and delivery of messages in interpersonal, public and business situations. This program focuses on understanding the communication process and improving communication skills. The program prepares the students to pursue professional goals in a variety of career possibilities including: Community College Teacher, Speech Writer, Communication Consultant, Lawyer, Minister, Personnel Director, Sports Broadcast Journalist, Public Relations, Political Campaign Aide, Sales, Counselor.

The Associate in Arts in Communication Studies for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Communication Studies at a CSU campus. Students completing the AA-T are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AA-T in Communication Studies will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for communication studies degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Communication Studies for Transfer, a student must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Communication Studies for Transfer will be able to:

1. Critically evaluate speeches, debates, and other communicative performances.
2. Comprehend the skills and techniques necessary to be organized, confident communicators in a variety of classroom settings.
3. Understand the process of communication and communication methods in multiple contexts.
4. Communicate utilizing a variety of performance methods.

REQUIRED COURSES	Units
COMM 001 Introduction to Public Speaking	3
Two courses from List A.....	6
Two courses from List B.....	6
One course from List C	3
Required Major Total Units	18

List A: (select two courses)	Units
COMM 006 Argumentation and Debate.....	3
COMM 008 Group Communication	3
COMM 010 Interpersonal Communication	3

List B: (select two courses)	Units
COMM 002 Fundamentals of Persuasive Speaking	3
COMM 012 Intercultural Communication	3
COMM 015 Oral Interpretation of Literature	3
COMM 050 Forensics/Speech Workshop	1-4
COMM 060 Business and Professional Communication.	3
Any List A course not used	3

List C: (select one course)	Units
ANTH 002 Cultural Anthropology	3
COMM 075 Sports Broadcasting	3
PSYC 001 Introduction to Psychology	3
SOC 001 Introduction to Sociology	3
Any List A or List B course not used	3

Communication Studies

Sports Broadcasting

Certificate of Achievement

Program Description

This program offers students hands-on experience in the basics of television and internet sports broadcasting. Areas of concentration include performance and technical training for a variety of televised sporting events and productions. The program is geared for those who are interested in obtaining employable skills in a short timeframe, may be completed in one year and serves as a professional development opportunity.

A Certificate of Achievement can be obtained by completing the 12-unit major with a minimum grade of C or a P if taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Sports Broadcasting Certificate of Achievement will be able to:

1. Obtain and demonstrate skill set for entry level positions in broadcasting and electronic media productions.
2. Amass a minimum of 200 experience hours working on sports production tasks and to acquire recorded audio/video content to compile a demo tape.
3. Broadcast production assignments totaling 200 hours, exams, self-evaluation journals, and viewer response and evaluations.
4. Demonstrate ability to work as an individual as well as an effective team member on sports productions.

REQUIRED COURSES Units

COMM 075A Sports Broadcasting – Fall Sports 3

COMM 075B Sports Broadcasting – Spring Sports 3

COMM 080A TV Sports Production – Fall Sports 3

COMM 080B TV Sports Production – Spring Sports 3

Required Major Total Units.....12

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Sports Broadcasting"

Computer Information Science Department

DEGREES:

Computer Programming (AS)
Microcomputer Applications (AS)
Web Design and Development (AS)

CERTIFICATES OF ACHIEVEMENT

Computer Programming
Microcomputer Applications
Web Design and Development

JOB-DIRECT LOW UNIT CERTIFICATES

Computer Applications Specialist
Database Specialist
Digital and Print Publishing
Digital Media and Web Development
Microsoft Office Specialist
Motion Graphic Editor
Web Programmer

COURSES:

CIS (Computer Information Science)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact:

Kevin Anderson

Mark Berrett

Adrienne Cary

Jeanette McCarthy

John Urrutia

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

P.A.C.E. - BUSINESS AND MANAGEMENT - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on other's instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

Computer Information Science

Computer Programming

Certificate of Achievement and Associate in Science

Program Description

This program is designed to prepare the student for employment as a computer programmer trainee.

The Certificate of Achievement can be obtained upon completion of the 33-unit major. The Associate in Science may be obtained by completing the 33-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Computer Programming Certificate of Achievement/Associate in Science will be able to:

1. Construct applications that use GUI (graphical user interface) components and access databases for data permanence.
2. Develop a programming solution to a data structure problem using object-oriented methodologies and appropriate data structures and algorithms.
3. Implement a well-designed, properly normalized relational database after analyzing user requirements and business rules.

REQUIRED COURSES Units

(listed in recommended sequence)

CIS 001 Introduction to Computer Science	3
BUS 092 Business Communication	3
CIS 022 Introduction to Programming	3
CIS 055 MS Windows Operating Systems	3
CIS 023 Data Structures and Algorithms	3
CIS 015 Programming in Visual Basic.NET	3
CIS 089 Essential Networking Technologies	3
CIS 078 Access - Database Management System	3
CIS 052 UNIX Operating System	3
CIS 020 Assembly Programming	3
3 units from Recommended Electives	3

Required Major Total Units.....33

Recommended Electives (select 3 units) Units

ACCT 001 Principles of Accounting - Financial.....	4
ACCT 002 Principles of Accounting – Managerial.....	4
BUS 005 Introduction to Business	3
CIS 035 Introduction to Java Programming	3
CIS 060 Introduction to the Internet	1.5
CIS 061 Creating Web Pages	3
CIS 066 Microsoft Word.....	3
CIS 073 Microsoft Excel	3
CIS 080 SQL Database Management Systems	3
OCED 090 Occupational Work Experience	1- 8
OCED 091 General Work Experience.....	1-6

Note: Students planning to transfer to a four-year college and major in Management Information Systems/ Computer Science should see a counselor regarding Business Articulation Agreements for a particular university campus.

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Computer & Info Science: Computer Programming."

Computer Information Science

Microcomputer Applications

Certificate of Achievement and Associate in Science

Program Description

This program is designed to prepare the student for employment as a microcomputer applications specialist.

The Certificate of Achievement can be obtained upon completion of the 30-unit major. The Associate in Science may be obtained by completing the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Microcomputer Applications Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate knowledge of application software such as word processing, spread sheets, personal information management, database, operating systems, and networking, presentation and html editors.
2. Understand Visual Basic programming.
3. Demonstrate effective oral and written communication.

REQUIRED COURSES Units

(listed in recommended sequence)

CIS 001 Introduction to Computer Science	3
CIS 015 Programming in Visual Basic.NET	3
CIS 055 MS Windows Operating Systems.....	3
CIS 061 Creating Web Pages	3
CIS 066 Microsoft Word.....	3
CIS 073 Microsoft Excel	3
CIS 078 Access - Database Management System	3
CIS 089 Essential Networking Technologies	3
CIS 090 Introduction to PowerPoint	1.5
CIS 091 Microsoft Outlook.....	1.5
BUS 092 Business Communication	3
Required Major Total Units.....	30

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Computer & Info Science: Microcomputer Applications."

Computer Information Science

Web Design and Development

Certificate of Achievement and Associate in Science

Program Description

This program is designed to prepare the student for employment as a website designer or developer. Career Opportunities: Web Designer, Web Development, Motion Graphic/Animation Video Editor, Print Designer.

The Certificate of Achievement can be obtained upon completion of the 22.5-unit major. The Associate in Science may be obtained by completing the 22.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Web Design and Development Certificate of Achievement/Associate in Science will be able to:

1. Produce functional web pages replete with responsive web elements.
2. Properly use design elements and an HTML editor in creating web pages.
3. Develop a project incorporating CSS, search forms, tables, photo galleries, shared borders, themes, interactive components, dynamic web pages and publish to a server.
4. Create web elements for print design and production.
5. Create and edit production quality animation and video

REQUIRED COURSES	Units
CIS 001 Introduction to Computer Science	3
CIS 061 Creating Web Pages	3
CIS 062 Creating Web Interactivity with Flash.....	3
CIS 069 Multimedia for the Web	3
CIS 070 Adobe Photoshop for the Web.....	3
CIS 085 Digital Publishing with InDesign	3
CIS 087 Adobe Illustrator for the Web.....	3
BUS 097 Work Readiness.....	1.5
Required Major Total Units.....	22.5

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Web Design and Development."

Computer Information Science

Computer Applications Specialist

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
BUS 097 Work Readiness.....	1.5
CIS 066 Microsoft Word.....	3
CIS 073 Microsoft Excel	3
CIS 078 Access - Database Management System	3
Total Units.....	10.5

Microsoft Office Specialist

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
CIS 066 Microsoft Word.....	3
CIS 073 Microsoft Excel	3
CIS 078 Access-Database Management System	3
CIS 090 Introduction to PowerPoint	1.5
CIS 091 Microsoft Outlook	1.5
Total Units	12

Database Specialist

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
CIS 072 Extensible Markup Language (XML)	1.5
CIS 078 Access - Database Management System	3
CIS 080 SQL Database Management Systems	3
Total Units.....	7.5

Motion Graphic Editor

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
CIS 062 Creating Web Interactivity.....	3
CIS 069 Multimedia for the Web	3
CIS 087 Adobe Illustrator for the Web	3
Total Units.....	9

Digital and Print Publishing

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
CIS 070 Adobe Photoshop for the Web	3
CIS 085 Digital Publishing with InDesign	3
CIS 087 Adobe Illustrator for the Web.....	3
BUS 097 Work Readiness.....	1.5
Total Units.....	10.5

Web Programmer

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
CIS 015 Programming in Visual Basic.NET	3
CIS 035 Introduction to Java Programming	3
CIS 068 Object Oriented Game Programming with Flash	3
CIS 075 Client-Side Web Programming	3
CIS 081 Server-Side Web Programming	3
Total Units.....	15

Digital Media and Web Development

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
CIS 061 Creating Web Pages	3
CIS 062 Creating Web Interactivity	3
CIS 070 Adobe Photoshop for the Web	3
CIS 087 Adobe Illustrator for the Web.....	3
Total Units.....	12

Computer Science Department

DEGREES

Computer Science (AS-T)

COURSES:

[CS \(Computer Science\)](#)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Mark Berrett



P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Computer Science

Associate in Science in Computer Science for Transfer (ADT: A.S.-T)

Program Description

Successful completion of this major will assure competence in computer science through programming and basic data structures, providing an adequate background for employment in many computer system and technology areas as well as providing a firm foundation for students planning to pursue a baccalaureate degree in Computer Science and related disciplines.

Associate in Science for Transfer Degree

The Associate in Science for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Computer Science at a CSU campus. Students completing an AS-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for Computer Science degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Science in Computer Science for Transfer, a student must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) requirements.
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Science in Computer Science for Transfer will be able to:

1. Analyze, document and construct a solution to a problem by applying appropriate computer science concepts and ideas.
2. Effectively communicate solution(s).
3. Demonstrate their ability to program in at least one programming language.

REQUIRED COURSES Units

CIS 020 Assembly Programming	3
CIS 021 Discrete Structures for Computer Science	3
CIS 022 Introduction to Programming	3
CIS 023 Data Structures and Algorithms	3
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
PHYS 006 Physics for Science and Engineering	5
One Biology course	5

Required Major Total Units.....32

Biology (select one course) Units

BIO 002 Cell and Molecular Biology	5
BIO 003 Evolution, Ecology, & Biodiversity	5

Cosmetology Department

DEGREES:

Cosmetology (AS)

CERTIFICATES OF ACHIEVEMENT

Cosmetology

COURSES:

COSM (Cosmetology)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

P.A.C.E. - BUSINESS AND MANAGEMENT - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on other's instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Cosmetology

Cosmetology

Certificate of Achievement and Associate in Science

Program Description

The Cosmetology program is approved by the California State Board of Barbering and Cosmetology. It is designed to prepare the student to take the California State Board of Cosmetology examination for licensure and is subject to its regulations regarding the education and training of cosmetologists. Units include theory and practice in fundamental skills in all phases of beauty culture. There is no reciprocity for transfer students. All students are required to complete all technical, practical, and program requirements.

The Certificate of Achievement can be obtained by completing the 43.5-unit major. The Associate in Science can be obtained by completing the 43.5-unit major and General Education. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Cosmetology Certificate of Achievement/Associate in Science will be able to:

1. Compare and contrast the skills as required by the California State Board of Barbering and Cosmetology.
2. Interpret and apply cosmetology theories.
3. Students will have completed the mandated clinic laboratory hours, technical subjects, practical operations and business fundamentals.

REQUIRED COURSES	Units
COSM 100 Cosmetology I	17.5
COSM 101 Cosmetology II	17.5
COSM 102 Cosmetology III	8.5
Required Major Total Units	43.5

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Cosmetology."

Counseling Department

CERTIFICATES OF ACHIEVEMENT

Transfer Studies with IGETC Emphasis
Transfer Studies with CSU GE Emphasis

COURSES

COUN (Counseling)

CONTACT INFORMATION:

Counseling

Building: 400 Room 404

Phone Number: (707) 864-7101

Email: *counseling@solano.edu*

Dean: Kristin Conner



Counseling

Transfer Studies with IGETC Emphasis

Certificate of Achievement

Program Description

This certificate is designed for students who intend to complete university general education requirements prior to transfer to a University of California (UC) or California State University (CSU) campus. Completion of the Intersegmental General Education Transfer Curriculum will permit a student to transfer from a Solano Community College to a UC or CSU campus generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

The Certificate of Achievement can be obtained by completing a minimum of 34-37-units from the Intersegmental General Education Transfer Curriculum (IGETC) Pattern. All courses for this certificate must be completed with a minimum grade of C or a P if taken on a Pass/No Pass basis.

REQUIRED COURSES **Units (minimum)**
See Intersegmental General Education Transfer Curriculum (IGETC) Pattern.

Area 1	6-9
Area 2	3
Area 3	9
Area 4	9
Area 5	7
Total Units	34-37

Transfer Studies with CSU GE Emphasis

Certificate of Achievement

Program Description

This certificate is designed for students who intend to complete university general education requirements prior to transfer to a California State University (CSU) campus. Completion of the CSU GE-Breadth (California State University General Education – Breadth) will permit a student to transfer from a Solano Community College to a CSU campus generally without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

The Certificate of Achievement can be obtained by completing a minimum of 39-units from the CSU GE-Breadth (California State University General Education-Breadth) Pattern. All courses for this certificate must be completed with a minimum grade of C or a P if taken on a Pass/No Pass basis.

REQUIRED COURSES **Units (minimum)**
See CSU GE-Breadth (California State University General Education-Breadth) Pattern.

Area A.....	9
Area B.....	9
Area C.....	9
Area D.....	6
Area E.....	3
Area F.....	3
Total Units	39

Criminal Justice Department

DEGREES:

Administration of Justice (AS-T)
Criminal Justice, Corrections (AS)
Criminal Justice, Law Enforcement (AS)

CERTIFICATES OF ACHIEVEMENT

Criminal Justice, Corrections
Criminal Justice, Law Enforcement

COURSES:

CJ (Criminal Justice)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Guided Pathways:

ADMINISTRATION OF JUSTICE AS-T

Associate in Science for Transfer | GE Pattern: CSU GE | Program Total Units: 62-67.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Police Detective • Lawyer • Criminal Investigator and Special Agent • Substance Abuse and Behavioral Disorder Counselor • Mental Health and Substance Abuse Social Worker • Criminal Justice and Law Enforcement Teacher

What your potential plan could look like...

1

First Semester

Total Recommended Units: 15

- ENGL 001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- CJ 001 3 units
Intro to Criminal Justice (CSU GE D)
- MATH 011 4 units
Statistics (CSU GE B4)
- COMM 001, 002, or 006 3 units
CSU GE AREA A1

3

Third Semester

Total Recommended Units: 13-15.5

- CSU GE C2* 3 - 5 units
- BIO 012 & 012L, 015 or 016 & 016L 3 units
(CSU GE B2/B3)
- ART 012, CINA 011, MUSC 013, or THEA 013 3 units
(CSU GE C1/Cross Cultural)
- HIST 017, 018, 028, 029, or 037 4 - 4.5 units
(CSU GE C2/American Institutions)

*Depends on whether or not student took two years of the same foreign language in high school and passed with at least a "C"

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2

Second Semester

Total Recommended Units: 16

- ENGL 002 or 004 4 units
(IGETC 1B)
- CJ 002 3 units
Concepts of Criminal Law
- CJ 011 3 units
Community Relations
- PLSC 001 or 005 3 units
CSU AREA D/AMERICAN INSTITUTIONS
- CSU GE B1 3 units
Suggested: ASTR, GEOL, GEOG

4

Fourth Semester

Total Recommended Units: 12-15

- CJ 051 5 units
Criminal Investigation
- PSYC 001 3 units
Introduction to Psychology (CSU GE D)
- CJ 056 3 units
Juvenile Procedures
- ASL 002, FREN 002, or SPAN 002 3 - 5 units

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- SOC 001 3 units
Intro to Sociology (CSU GE D)
- CSU GE E 3 units

Criminal Justice

Associate in Science in Administration of Justice for Transfer (ADT: A.S.-T)

Program Description

This program offers core and selective courses which provide the student with a base of knowledge and proficiencies in the area of criminal justice. The program operates with the cooperation and participation of local criminal justice agencies. All instructors in the program have experience in the criminal justice field. Courses are scheduled both day and evening to accommodate full-time or part-time students seeking to acquire or upgrade skills and to prepare the criminal justice student for a four-year degree in the CSU system.

The Associate in Science in Administration of Justice for Transfer is designed for students who plan to complete a bachelor's degree in Administration of Justice at a CSU campus. Students completing an Associate in Science in Administration of Justice for Transfer degree are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Science in Administration of Justice will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Science in Administration of Justice for Transfer degree also provides students with the learning experience on how to preserve and maintain social order by gaining critical skills in these key areas: law enforcement; corrections, probation, and parole; juvenile justice, delinquency, and juvenile corrections; criminology theory and crime control; and criminal justice leadership and administration. With this transfer degree, students will gain an understanding of both adult and juvenile justice systems, as well as the skills to apply innovative programmatic efforts. From due process to constitutional protections to the importance of case law in American criminal justice, the student will be exposed to the specific legal and ethical challenges for each branch of the U.S. criminal justice system.

To earn the Associate in Science in Administration of Justice for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Science in Administration of Justice for Transfer will be able to:

1. Demonstrate an understanding of the American Criminal Justice system and the scope of responsibilities of the various local, state, and federal law enforcement agencies beginning with arrest through parole.
2. Articulate the system's objectives, the crime problem, and role expectations of criminal justice personnel, and describe the various agencies and each subsystem within the system.
3. Describe the system's responsibilities to the community, factors in crime causation, the social implications of crime and communication barriers between the system and the community.
4. Articulate the differences between the major criminological theories of the causes of crime and how those theories relate to policies toward crime and criminal behavior.
5. Analyze legal concepts and make rational decisions about case processing.
6. Demonstrate knowledge of the rules of evidence, legal definitions, and concepts of evidentiary law. Apply basic investigative proficiencies.
7. Demonstrate critical thinking and analytical skills acquired in the social sciences in preparation for continuance of college-level education at a four-year college.

REQUIRED COURSES	Units
CJ 001 Introduction to Criminal Justice	3
CJ 002 Concepts of Criminal Law	3
Select Two Courses from List A	6
Select Two Courses from List B	6

List A (select two courses)	Units
CJ 011 Community Relations	3
CJ 051 Criminal Investigation	3
CJ 053 Legal Aspects of Evidence	3
CJ 056 Juvenile Procedures	3

List B (select two courses)	Units
CJ 064 Principles and Procedures of the Criminal Justice System	3
PSYC 001 Introduction to Psychology	3
SOC 001 Introduction to Sociology	3
Required Major Total Units	18

Criminal Justice

Criminal Justice, Corrections

Certificate of Achievement and Associate in Science

Program Description

This program offers core and selective courses which provide the student with a base of knowledge and proficiencies in the area of corrections. The program operates with the cooperation and participation of local corrections agencies. All instructors in the program have experience in the corrections field. Courses are scheduled both day and evening to accommodate full-time or part-time students seeking to acquire or upgrade skills in the corrections field.

The Certificate of Achievement can be obtained upon completion of the 30-unit major. The Associate in Science can be obtained upon completion of the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Criminal Justice, Corrections Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate an understanding of the American Criminal Justice system and the scope of responsibilities of the various local, state, and federal law enforcement agencies beginning with arrest through parole.
2. Articulate the system's objectives, the crime problem, and role expectations of criminal justice personnel, and describe the various agencies and each subsystem within the system.
3. Describe the system's responsibilities to the community, factors in crime causation, the social implications of crime and communication barriers between the system and the community

REQUIRED COURSES	Units	List A: (Select 6 units)	Units
CJ 001 Introduction to Criminal Justice	3	CJ 057 Criminal Justice Career Development	3
CJ 002 Concepts of Criminal Law	3	CJ 060 Probation and Parole.....	3
CJ 011 Community Relations.....	3	CJ 062 Legal Aspects of Correction.....	3
CJ 051 Criminal Investigation.....	3		
CJ 052 Investigative Report Writing.....	3		
CJ 053 Legal Aspects of Evidence	3		
CJ 058 Fundamentals of Crime and Delinquency	3		
CJ 059 Interviewing and Counseling.....	3		
6 units from List A.....	6		
Required Major Total Units.....	30		

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Criminal Justice: Corrections."

Criminal Justice

Criminal Justice, Law Enforcement

Certificate of Achievement and Associate in Science

Program Description

This program was established with the cooperation of the Solano County Criminal Justice Advisory Committee and offers courses for both pre-service and in-service students. All instructors have experience in law enforcement, and courses are scheduled day or evening to accommodate full-time and part-time students seeking to acquire or upgrade skills in the field.

The Certificate of Achievement can be obtained upon completion of the 30-unit major. The Associate in Science can be obtained upon completion of the 30-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Criminal Justice, Law Enforcement Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate an understanding of the responsibilities of law enforcement, courts, and corrections, and their applicability to adults and juveniles.
2. Articulate the roles of the criminal and civil court systems.
3. Identify and describe the three proximate cause theories of attributed liability

REQUIRED COURSESUnits

CJ 001 Introduction to Criminal Justice	3
CJ 002 Concepts of Criminal Law.....	3
CJ 011 Community Relations	3
CJ 051 Criminal Investigation.....	3
CJ 052 Investigative Report Writing.....	3
CJ 053 Legal Aspects of Evidence	3
CJ 058 Fundamentals of Crime and Delinquency	3
CJ 059 Interviewing and Counseling.....	3
6 units from List A.....	6

Required Major Total Units.....30

List A: (select 6 units)Units

CJ 056 Juvenile Procedures	3
CJ 057 Criminal Justice Career Development	3
CJ 064 Principles and Procedures of the Criminal Justice System	3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Criminal Justice: Law Enforcement."

Dance Department

DEGREES:

Dance (AA)

COURSES:

DANC (Dance)

CONTACT INFORMATION:

School of Health Sciences

Building: 800 Room 805B

Phone Number: (707) 864-7108

Fax Number: (707) 646-2062

Dean: Sheila Hudson

Administrative Assistant: Janet Schwartz

Faculty Contact: Ginger Cain



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Dance

Dance

Associate in Arts

Program Description

This program is designed for students planning to transfer to a four-year university to major or minor in dance. A comprehensive dance education will develop skills required to create, perform, communicate and grasp the essence of dance. These skills are acquired through the study of modern dance, ballet technique, jazz technique, hip-hop technique, ballroom technique, performance, as well as dance production, dance appreciation, choreography composition and music fundamentals.

The Associate of Arts can be obtained upon completion of the 19-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a grade of C or better or a P if the course is taken on a pass-no pass basis.

Program Outcomes

Students who complete the Dance Associate in Arts will be able to:

1. Demonstrate the skills required to perform at a proficient level in a variety of dance styles including ballet, jazz, hip-hop, and modern dance.
2. Demonstrate an understanding and appreciation for the principal, historical, theoretical, and critical approaches to dance as a performing art.
3. Demonstrate a working knowledge of production techniques, including backstage, and show management.

REQUIRED COURSES	Units
DANC 004 Dance Appreciation	3
DANC 004E Dance Production	3
DANC 004G Dance Choreography	2
1 course from Music	3
5 courses from Beginning Dance	5
3 courses from Intermediate Dance	3
Required Major Total Units	19

Music (select one course)	Units
MUSC 008 Music Appreciation	3
MUSC 013 Multicultural Music in America	3

Beginning Dance (select five courses)	Units
DANC 004A Beginning Contemporary Modern Dance ..	1
DANC 004F Beginning Hip-Hop Dance	1
DANC 004H Beginning Jazz Dance	1
DANC 004J Beginning Ballroom Dance	1
DANC 004K Beginning Ballet	1
DANC 004N Beginning Swing Dance	1
KINE 006E Fundamentals of Yoga	1

Intermediate Dance (select three courses)	Units
DANC 004M Intermediate Ballet	1
DANC 004P Intermediate Jazz Dance	1
DANC 004S Intermediate Swing Dance	1
DANC 004T Intermediate Ballroom Dance	1
KINE 006F Intermediate Yoga	1

Drafting Department

DEGREES:

Drafting and Design (AS)
Survey and Civil Drafting (AS)

CERTIFICATES OF ACHIEVEMENT

Drafting and Design
Survey and Civil Drafting
Maker Space Technology

JOB-DIRECT LOW UNIT CERTIFICATE

Computer Aided Drafting (CAD) Technician

COURSES:

DRFT (Drafting)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Karen Cook

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Drafting

Drafting and Design Technician

Certificate of Achievement and Associate in Science

Program Description

This program is designed to provide students with entry level skills in the fields of mechanical, electrical, civil and architectural drafting and/or design.

The Certificate of Achievement can be obtained upon completion of the 31-31.5-unit major. The Associate in Science can be obtained by completing the 31-31.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Drafting and Design Technician Certificate of Achievement/Associate will be able to:

1. Demonstrate proficiency using industry standard computer aided drafting/design CAD (AutoCAD) software program.
2. Demonstrate proficiency at reading, drawing, and dimensioning industry standard mechanical drawings.
3. Demonstrate proficiency at reading, drawing, and dimensioning industry standard civil drawings.
4. Demonstrate proficiency at reading, drawing, and dimensioning industry standard electronic drawings.
5. Demonstrate proficiency at reading, drawing, and dimensioning industry standard architectural drawings.

REQUIRED COURSES	Units	List A: (Select one course)	Units
DRFT 045 Introduction to Computer-Aided Drafting (CAD).....	4	OCED 070 Occupational Soft Skills	1.5
DRFT 055 Mechanical Drafting - Level I.....	3	OCED 090 Occupational Work Experience	1
DRFT 058 Solid Modeling with Solidworks	3	OCED 091 General Work Experience	1
DRFT 060 Architectural Drafting I.....	3		
DRFT 075 Electronic Drafting.....	3		
DRFT 080 Civil Drafting I.....	3		
DRFT 161 Introduction to REVIT Architecture Software.....	3		
IT 140 Industrial Materials.....	3		
IT 151 Vocational Mathematics	3		
IT 171 Making Things 1 - 3D Technology	1		
IT 172 Making Things 2 - 2D Technology	1		
One Course from List A.....	1-1.5		
Required Major Total Units	31-31.5		

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Drafting Technician."

Drafting

Survey and Civil Drafting Technician

Certificate of Achievement and Associate in Science

Program Description

This program is designed to provide students with entry-level skills in the fields of Surveying Technician, Civil Drafting Technician, and/or mapping technician.

The Certificate of Achievement can be obtained upon completion of the 26-26.5-unit major. The Associate in Science may be obtained by completing the 26-26.5-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Survey and Civil Drafting Technician Certificate of Achievement/Associate Degree will be able to:

1. Demonstrate proficiency using industry standard computer aided drafting/design CAD (AutoCAD) software program.
2. Demonstrate proficiency at reading, drawing and dimensioning industry standard civil drawings.
3. Demonstrate basic understanding in using industry standard survey equipment including Transit, Theodolite, and Level.

REQUIRED COURSES	Units
DRFT 045 Introduction to Computer-Aided Drafting (CAD).....	4
DRFT 060 Architectural Drafting I	3
DRFT 080 Civil Drafting I	3
DRFT 140 Surveying.....	3
DRFT 161 Introduction to REVIT Architecture Software.....	3
IT 151 Vocational Mathematics.....	3
One course from List A	3
One course from List B	1-1.5
One course from List C	3
Required Major Total Units.....	26-26.5

List A: (select one course)	Units
GEOL 010 Introduction to Geographic Information Systems.....	3
GEOG 010 Introduction to Geographic Information Systems	3

List B: (select one course)	Units
OCED 070 Occupational Soft Skills	1.5
OCED 090 Occupational Work Experience	1
OCED 091 General Work Experience	1

List C: (select one course)	Units
GEOL 001 Physical Geology	3
GEOL 005 Geology of California	3
IT 050 Alternative Energy Technologies.....	3

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Survey Technician / Civil Drafting Technician."

Drafting

Maker Space Technology

Certificate of Achievement

Program Description

This program is an overview of basic design of manufacturing skills and concepts. Students will learn basic 2D and 3D CAD (Computer Aided Design) skills and how to output those designs using common Maker Space machines and tools such as 3D printers, laser cutters, and CNC (Computer Numeric Controlled) machines. The program also provides a basic overview of manufacturing systems such as motors, wiring and controllers, and the related career opportunities available to individuals with these skills.

The Certificate of Achievement can be obtained upon completion of the 16.5-18-unit major. All courses must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Maker Space Technology Certificate of Achievement will be able to:

1. Demonstrate an understanding of the main principles of Mechatronics.
2. Demonstrate an ability to safely use a 3D printer, laser cutter, CNC machine, basic hand and power tools, and basic electronics.
3. Demonstrate and ability to create a CAD drawing and output to a Maker Space machine.

REQUIRED COURSES	Units
IT 101 Introduction to Mechatronics.....	3
IT 171 Making Things 1 – 3D Technology	1
IT 172 Making Things 2 - 2D Technology	1
IT 173 Making Things 3 – Tool Use and Safety.....	1
IT 174 Making Things 4 – Basic Electronics	1
IT 175 Maker Space Technology Lab I.....	1.5
IT 176 Maker Space Technology Lab II.....	1.5
IT 179 Making Things 5 - Sewing Fundamentals.....	1
One Course from List A.....	1.5-3
Select Option A or Option B	4
Required Major Total Units.....	16.5-18

List A (select one course).....	Units
DRFT 151 3D Modeling with Fusion 360	1.5
DRFT 058 Solid Modeling with Solidworks	3

Select Option A or Option B.....	Units
Option A	
DRFT 045 Introduction to Computer-Aided Drafting (CAD)	4
Option B	
DRFT 145 AutoCAD Basics.....	1
DRFT 079 Blueprint Reading	3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Maker Space Technology."

Computer Aided Drafting (CAD) Technician

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
DRFT 045 Introduction to Computer-Aided Drafting (CAD).....	4
DRFT 079 Blueprint Reading.....	3
One course from List A	3
One course from List B	3
Total Units.....	13

List A: (select one course)	Units
DRFT 058 Solid Modeling with Solidworks	3
DRFT 161 Introduction to REVIT Architecture Software.....	3

List B: (select one course)	Units
DRFT 055 Mechanical Drafting - Level I.....	3
DRFT 060 Architectural Drafting I	3
DRFT 075 Electronic Drafting	3
DRFT 080 Civil Drafting I	3

Economics Department

DEGREES:

Economics (AS-T)

COURSES:

ECON (Economics)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Laura Maghoney



P.A.C.E. - BUSINESS AND MANAGEMENT - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on other's instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

Guided Pathways:

ECONOMICS AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61 - 69.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Economist • Economics Teacher • Banking •
Financial or Market Analyst • Actuary

What your potential plan could look like...

1 First Semester Total Recommended Units: 14

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 Statistics (IGETC 2B) 3 - 4 units
- ECON 001 Principles of Macroeconomics (IGETC 4) 3 units

2 Second Semester Total Recommended Units: 16

- ENGL 002 or 004 (IGETC 1B) 4 units
- ECON 002 Principles of Microeconomics (IGETC 4) 3 units
- MATH 020 Analytic Geometry and Calculus 5 units
- COMM 001, 002, or 006 (IGETC 1C) 3 units

3 Third Semester Total Recommended Units: 12-16

- ASL 001, FREN 001, or SPAN 001* 3 - 5 units or (IGETC 3B)
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units
- IGETC 5B BIO 012, 016, 018, 020, OR 025 3 units
- LIST A of ADT 3 - 5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

4 Fourth Semester Total Recommended Units: 13-17.5

- LIST A or B of ADT 3 - 5 units
- IGETC 5A/5C ASTR 010 & 020 4 - 4.5 units
GEOL 001 & 002, or GEOG 001 & 001L
- IGETC 3A or 3B 3 units
- UC Transferable Elective 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer) Total Recommended Units: 6

- HIST 017, 018, 028, 029, or 037 (IGETC 3B/American Institutions) 3 units
- ART 012, CINA 011, MUSC 013 or THEA 013 (IGETC 3A/Cross Cultural) 3 unit

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

Economics

Associate in Arts in Economics for Transfer (ADT: A.A.-T)

Program Description

This program is designed to provide an opportunity for economics majors to achieve an Associate in Arts in Economics while completing the requirements for transfer to a California State University (CSU). This program is designed to introduce to students economic concepts and models, enabling them to analyze to specific situations and predict their outcomes.

The Associate in Arts in Economics for Transfer is appropriate for students who plan to complete a bachelor's degree in Economics at a CSU campus. A baccalaureate degree is recommended preparation for those considering careers in economics. Students completing and Associate in Arts in Economics for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus with the Associate in Arts in Economics for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for Economics at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Economics for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Economics for Transfer will be able to:

1. Analyze markets recognizing how outcomes may differ as a result of different market structures and changes in the market.
2. Evaluate the economic conditions of an economy, recommending appropriate monetary and fiscal policies.
3. Assess the costs and benefits of free trade and identify the impacts of trade barriers on the outcomes of trade.

REQUIRED COURSES	Units
ECON 001 Principles of Economics (Macroeconomics) ..	3
ECON 002 Principles of Economics (Microeconomics) ...	3
MATH 011 Elementary Statistics.....	4
MATH 020 Analytic Geometry and Calculus I	5
Two Courses from List A	6-9
Required Major Total Units.....	21-24

List A: (select two courses)	Units
MATH 021 Analytic Geometry and Calculus II	5
MATH 022 Analytic Geometry and Calculus III	4
MATH 023 Differential Equations	4
MATH 040 Introduction to Linear Algebra.....	3
CIS 015 Programming in Visual Basic.NET	3
BUS 018 Legal Environment of Business	3
ACCT 001 Principles of Accounting - Financial.....	4
ACCT 002 Principles of Accounting - Managerial.....	4

Education Department

DEGREES:

Elementary Teacher Education (AA-T)

COURSES:

[EDUC \(Education\)](#)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact:

Anthony "Tony" Ayala

Amy Obegi

Tasha Smith



P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

Education

Associate in Arts in Elementary Teacher Education for Transfer (ADT: A.A.-T)

Program Description

This program provides a strong liberal studies foundation for students seeking to teach in an elementary school. The coursework is designed to meet the introductory content area subject matter requirements for teaching at the elementary school level.

The Associate in Arts in Elementary Teacher Education for Transfer is designed specifically for transfer, providing the breadth and depth of coursework necessary for students who seek to study liberal arts and education coursework at the CSU in preparation for a career in elementary school teaching. Students completing the AA-T are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the AA-T in Elementary Teacher Education will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Elementary Teacher Education for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Elementary Teacher Education for Transfer will be able to:

1. Apply an understanding of child development theories and ethical standards to the development of a personal teaching philosophy.
2. Apply an understanding of how diverse cultural beliefs and social, political, and/or historical context impact form of human expression
3. Demonstrate quantitative reasoning skills and an understanding of the scientific method, consistent with elementary level standards.
4. Critically evaluate strategies and techniques for working with culturally, linguistically and ethnically diverse populations, including children with special education needs.

REQUIRED COURSES	Units
CDFS 038 Child Growth and Development	3
EDUC 001 Elementary Teacher Education	2
OCED 090 Occupational Work Experience	1
Liberal Arts and Social Science	27
Science and Math	15
Select one course from List A	3
Select one course from List B	6
Required Major Total Units	57

LIBERAL ARTS AND SOCIAL SCIENCE	Units
COMM 001 Introduction to Public Speaking	3
ENGL 001 College Composition	4
ENGL 002 Critical Thinking and Writing About Literature	4
GEOG 004 World Geography	3
HIST 002 World History to 1500	3
HIST 017 History of the United States to 1877	3
PLSC 001 Introduction to American Government and Politics	3
ENGL 004 Critical Thinking and Composition: Language in Context	4

Education

SCIENCE AND MATH Units

BIO 015 Introduction to Biology	4
GEOL 006 Earth Science	3
GEOL 006L Earth Science Laboratory	1
MATH 055 Mathematical Concepts for Elementary School Teachers – Number Systems	3
PHSC 012 Introduction to Principles of Physical Science	4

List A: (Select one course)..... Units

ART 010 Art Appreciation	3
DANC 004 Dance Appreciation.....	3
MUSC 008 Music Appreciation	3
THEA 006 Introduction to Theatre	3

List B: (Select two courses) Units

CDFS 062 Introduction to Early Childhood Education: Principles and Practices	3
CDFS 053 Teaching in a Diverse Society	3
CDFS 064 Observation and Assessment	3

Emergency Medical Technician Department

JOB-DIRECT LOW UNIT CERTIFICATE

Emergency Medical Technician

COURSES:

EMT (Emergency Medical Technician)

CONTACT INFORMATION:

School of Health Sciences

Building: 800 Room 805B

Phone Number: (707) 864-7108

Fax Number: (707) 646-2062

Dean: Sheila Hudson

Administrative Assistant: Janet Schwartz

Faculty Contact: Brian Bower

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Emergency Medical Technician

Emergency Medical Technician I

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
EMT 112 Emergency Medical Technician (Basic)	7
Total Units	7

Engineering Department

DEGREES

Engineering (AS)

COURSES:

[ENGR \(Engineering\)](#)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact: Melanie Lutz



P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Engineering

Engineering

Associate in Science

Program Description

Solano Community College offers a two-year lower division Engineering Program that is designed to prepare students to transfer to a four-year university. The lower division Engineering Core Courses recommended by the Engineering Liaison Committee of the State of California have been coordinated between community colleges and the four-year colleges and universities throughout California. As part of our Engineering Program, an Associate in Science in Engineering is available. Although most engineering students transfer to a four-year university, those with an AS degree can also be employed in entry-level jobs that require two years of college-level science and math.

The Associate in Science can be obtained by completing the 43-46-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

Program Outcomes

1. Demonstrate analytical problem solving skills in Math, Physics, Chemistry and Engineering.
2. Conduct experiments and critically assess the data.
3. Write professional laboratory reports and/or give oral presentations.

REQUIRED COURSES	Units
CHEM 001 General Chemistry I	5
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
MATH 022 Analytic Geometry and Calculus III	4
MATH 023 Differential Equations	4
PHYS 006 Physics for Science and Engineering	5
PHYS 007 Physics for Science and Engineering	5
Three courses from List A	10-13
Required Major Total Units	43-46

List A: (select three courses)	Units
CIS 022 Introduction to Programming	3
DRFT 045 Introduction to Computer-Aided Drafting (CAD)	4
or	
DRFT 058 Solid Modeling with Solidworks	3
ENGR 017 Introduction to Electrical Engineering	5
ENGR 030 Engineering Mechanics: Statics	4
ENGR 045 Properties of Materials	4
ENGR 026 Mathematics and Engineering Problem Solving Using Matlab	4
or	
MATH 026 Mathematics and Engineering Problem Solving Using Matlab	4

English Department

DEGREES

English (AA-T)

English (AA)

COURSES:

ENGL (English)

ESL (English as a Second Language)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer

Faculty Contact:

Isabel Anderson

Emily Blair

Lue Cobene

Jose Cortes

Erin Farmer

Lisa Giambastiani

Christopher McBride

Sarah McKinnon

Melissa Reeve

Tracy Schneider

Jack Schouten

Joshua "Josh" Scott

Heather Watson-Perez

Michael Wyly

P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Guided Pathways:

ENGLISH AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61 - 64.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Advertising Copywriter or Editor • English Language and/or Literature Teacher • Editor or Publisher • Journalist • Public Relations Specialist • Writer, Technical Writer, or Grant Writer

What your potential plan could look like...

1 First Semester

Total Recommended Units: 14 - 15

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 or 012 (IGETC 2B) 3 - 4 units
- ART 012, CINA 011, MUSC 013 or THEA 013 (IGETC 3A/Cross Cultural) 3 units
- COMM 001 (IGETC 1C) 3 unit

3 Third Semester

Total Recommended Units: 13-15.5

- ASL 001, FREN 001, or SPAN 001* 3 - 5 units or UC Transferable Elective
- LIST A of ADT 3 units
- LIST B of ADT 3 units
- IGETC 5B/5C Suggested: BIO 012/012L, BIO 015, BIO 016/016L 4-4.5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color: Required Courses/Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2 Second Semester

Total Recommended Units: 13

- ENGL 002 Critical Thinking & Writing about Literature (IGETC 1B) 4 units
- LIST A of ADT 3 units
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units
- IGETC 4 3 units

4 Fourth Semester

Total Recommended Units: 15

- IGETC 5A Suggested: ASTR, GEOL, GEOG 3 units
- LIST B of ADT 3 units
- LIST C of ADT 3 units
- IGETC 4 3 units
- UC Transferable Elective Suggested: List A, B, or C from ADT 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer)

Total Recommended Units: 6

- HIST 017, 018, 028, 029, or 037 (IGETC 3B/American Institutions) 3 units
- (IGETC 3A or 3B) 3 unit

English

Associate in Arts in English for Transfer (ADT: A.A.-T)

Program Description

This program is for students who intend to complete a bachelor's degree in English at a CSU. Students will take courses in English as well as related fields required for English majors. This program teaches writing, critical thinking, reading, and research skills as they apply to the areas of composition, creative writing, and the analysis of literature. Course work in creative writing is presented in sequenced writing workshops and courses in literary publishing. Course work in literature explores primarily British and American writers through genre, survey, figure, and thematic courses.

Students who complete the Associate in Arts in English for Transfer will be guaranteed admission with junior status to the California State University system, though not to a particular campus or major. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in English for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University system, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in English for Transfer will be able to:

1. Demonstrate an ability to compose and communicate using appropriate rhetorical patterns and writing strategies.
2. Demonstrate college-level reading, writing, and analysis skills.
3. Demonstrate an understanding of the importance and influence of literature's study of the human condition in shaping and reflecting intellectual history and cultural identity.
4. Demonstrate, through study and analysis of literature from a variety of cultural or ethnic backgrounds and sexual orientations, an ability to recognize and examine assumptions about difference and social norms and an understanding of how the experience of reading literature from different perspectives can better prepare one for meaningful participation in a diverse global community.
5. Explore and/or demonstrate, through creative writing and/or analytical techniques, the practice and study of diverse literatures and publishing.

REQUIRED COURSES	Units
ENGL 002 Critical Thinking and Writing About Literature	4
Two courses from List A.....	6
Two courses from List B	6
One course from List C	3
Required Major Total Units	19

List A: (select two courses)	Units
ENGL 030 Survey of American Literature I	3
ENGL 031 Survey of American Literature II	3
ENGL 040 Survey of English Literature I	3
ENGL 041 Survey of English Literature II	3

List B: (select two courses)	Units
ENGL 006 Creative Writing I	3
ENGL 007 Creative Writing II	3
ENGL 010 Creative Writing III	3
ENGL 018 Introduction to Mythology.....	3
ENGL 021 Introduction to Poetry	3
ENGL 023 Introduction to the Modern Novel	3
ENGL 024 Introduction to the Short Story.....	3
ENGL 036 Multi-Ethnic Literature in America.....	3
ENGL 044 Introduction to Shakespeare.....	3
ENGL 058 Creative Writing: The Literary Magazine I	3
Any course from List A not already used	3

List C: (select one course)	Units
ENGL 059 Creative Writing: The Literary Magazine.....	3
HUMN 001 What it Means to be Human	3
Any course from List A or B not already used.....	3

English

English

Associate in Arts

Program Description

The Associate in Arts in English provides the academic and practical experience for further education in English at a four-year institution or a career in English or further education or careers in fields related to English. By completing this program, students may complete transfer requirements to the CSU system and UC system as well as public and private universities both in and out of California to pursue a Bachelor's Degree in English, English Literature or Creative Writing. A Bachelor's Degree in English may also include various emphases such as creative writing, composition/rhetoric, education, literature, or linguistics. Students who complete the A.A. in English will also satisfy the requirements for the AA-T in English. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Students will take courses in English as well as in related fields required for English majors. The English program teaches writing, critical thinking, reading, and research skills as they apply to the areas of composition, creative writing, and the analysis of literature. Course work in creative writing is presented in sequenced writing workshops and courses in literary publishing. Course work in literature explores primarily British and American writers through genre, survey, figure, and thematic courses.

The Associate in Arts in English can be obtained by completing the twenty-five (25) units for the major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

Program Outcomes

Students who complete the Associate in Arts in English will be able to:

1. Demonstrate an ability to compose and communicate using appropriate rhetorical patterns and writing strategies.
2. Demonstrate college-level reading, writing, and analytical skills.
3. Demonstrate an understanding of the importance and influence of literature's study of the human condition in shaping and reflecting intellectual history and cultural identity.
4. Demonstrate, through the study and analysis of literature from a variety of cultural or ethnic backgrounds and sexual orientations, an ability to recognize and examine assumptions about difference and social norms and an understanding of how the experience of reading literature from different perspectives can better prepare one for meaningful participation in a diverse global community.
5. Explore and demonstrate through creative writing and/or analytical techniques, the practice and study of diverse literatures and publishing.

English

REQUIRED COURSES **Units**

The courses are listed in the suggested sequence.

ENGL 002 Critical Thinking and Writing About Literature 4
Two courses from List A 6
Two courses from List B 6
Two courses from List C 6
One course from List D 3

Required Major Total Units.....**25**

List A: (select two courses) **Units**

ENGL 030 Survey of American Literature I 3
ENGL 031 Survey of American Literature II 3
ENGL 040 Survey of English Literature I 3
ENGL 041 Survey of English Literature II 3

List B: (select two courses)..... **Units**

ENGL 006 Creative Writing 1 3
ENGL 021 Introduction to Poetry 3
ENGL 023 Introduction to the Modern Novel 3
ENGL 024 Introduction to the Short Story..... 3
Any course(s) from List A not already used 3

List C: (select two courses)..... **Units**

ENGL 007 Creative Writing II 3
ENGL 010 Creative Writing III 3
ENGL 058 Creative Writing: The Literary Magazine I 3
ENGL 044 Introduction to Shakespeare..... 3
ENGL 018 Introduction to Mythology..... 3
ENGL 036 Multi-Ethnic Literature in America..... 3
Any course(s) from List A or B not already used..... 3

List D: (select one course) **Units**

ENGL 049 English Honors 3
ENGL 059 Creative Writing: The Literary Magazine II..... 3
HUMN 001 What it Means to be Human 3
Any course from List A, B, or C not already used..... 3

Film and Television Department

DEGREES

Film and Television (AA)

**Sports Broadcasting Certificate of Achievement see Communications Department

COURSES:

CINA (Cinema)

TV (Television)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Film and Television

Film and Television

Associate in Arts

Program Description

This program is designed to provide fundamental theory and practical experiences required for a career in film and/or television.

The Associate in Arts can be obtained upon completion of the 19–20-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Film and Television Associate in Arts will be able to:

1. Conceive, structure, organize, produce, direct, film and edit to successful completion a short digital film and TV program.
2. Conceive, structure, organize and write film and TV treatments and scripts.
3. Critically evaluate film.
4. View and evaluate films, providing written and verbal critiques.
5. Demonstrate knowledge of film theory and history and TV/radio broadcasting mediums.

REQUIRED COURSESUnits

CINA 010 The Art of Cinema 3

CINA 015 Film Production 4

TV 050 Survey of Broadcasting..... 3

TV 055 Beginning Television Production 3

TV 060 Television and Film Writing 3

TV 056 Advanced Television Production..... 3

or

CINA 016 Film Production 4

Required Major Total Units..... 19–20

Fire Technology Department

DEGREES

Fire Technology (AS)

CERTIFICATE OF ACHIEVEMENT

Fire Technology

COURSES:

FIRE (FIRE)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Brian Preciado



P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
 - ...enjoys using your skills to serve people?
 - ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Fire Technology

Fire Technology

Certificate of Achievement and Associate in Science

Program Description

This program was established under direction of Solano County fire protection agencies and offers both an intensive training course culminating in a Certificate of Achievement and a well-rounded educational program leading to the Associate in Science Degree. Instructors in this program are experienced members of the fire service field. In addition, a Fire Technology Academy for recently recruited fire service personnel and pre-service students is conducted periodically. The curriculum consists of courses selected from the regular fire technology course offerings.

The Certificate of Achievement can be obtained upon completion of the 30-45-unit major. The Associate in Science can be obtained upon completion of the major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Fire Technology Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety.
2. Identify and comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
3. Analyze the causes of fire; determine extinguishing agents and methods; differentiate the stages of the fire and fire development; and compare methods of heat transfer.
4. Identify and describe common types of building construction and conditions associated with structural collapse and fire fighter safety.

REQUIRED COURSES	Units
FIRE 050 Principles of Emergency Services	3
FIRE 051 Fire Behavior & Combustion	3
FIRE 053 Fire Prevention Application	3
FIRE 054 Fire Protection Systems	3
FIRE 056 Building Construction as it Relates to the Fire Service	3
FIRE 101 Principles of Fire and Emergency Services Safety and Survival	3
12-27 units from Recommended Electives.....	12-27
Required Major Total Units.....	30-45

Recommended Electives: (select 12-27 units)	Units
FIRE 140 Fire Technology Academy	24
EMT 112 Emergency Medical Technician (Basic).....	7
EMT 128 Emergency Medical Responder	3
OCED 090 Occupational Work Experience	1-8

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Fire Technology."

Foreign Languages Department

DEGREES

Foreign Languages, General (AA)

American Sign Language (AA)

French (AA)

Spanish (AA)

Spanish (AA-T)

COURSES:

[ASL \(American Sign Language\)](#)

[FLNG \(Foreign Languages\)](#)

[FREN \(French\)](#)

[SPAN \(Spanish\)](#)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer

Faculty Contact:

ASL: Hui Hui "Gwen" Gallagher

French: Lorna Marlow-Muñoz

Spanish: Laura Pirott



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Guided Pathways:

FRENCH (AA)

Associate in Arts | GE Pattern: IGETC | Program Total Units: 60 - 61.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Speech-Language Pathologist • Communication Teacher • Media and Communication • Public Relations Specialist

What your potential plan could look like...

1 First Semester

Total Recommended Units: 16 - 17

- ENGL 001
College Composition (IGETC 1A) 4 units
- LR 010
Introduction to Library Research 1 unit
- MATH 011 or 012
(IGETC 2B) 3 - 4 units
- FREN 001
First Semester French 5 units
- COMM 001, 002, or 006
(IGETC 1C) 3 unit

2 Second Semester

Total Recommended Units: 15

- ENGL 002 or 004
(IGETC 1B) 4 units
- FREN 002
Second Semester French (IGETC 3B) 5 units
- HIST 017, 018, 028, 029, or 037
(IGETC 4/American Institutions) 3 units
- PLSC 001 or 005
(IGETC 4/American Institutions) 3 units

3 Third Semester

Total Recommended Units: 15-15.5

- FREN 003
Third Semester French (IGETC 3B) 5 units
- FREN 011
Conversational French 3 units
- IGETC 5B/5C
BIO 012 & 012L, BIO 015, or BIO 016 & 016L 4 - 4.5 units
- ART 012, CINA 011, MUSC 013,
or THEA 013 (IGETC 3A/Cross-Cultural) 3 units

4 Fourth Semester

Total Recommended Units: 14

- FREN 004
Fourth Semester French 5 units
- FREN 012
Intermediate French Conversation 3 units
- IGETC 5A
Suggested: ASTR, GEOL, GEOG 3 units
- IGETC 4 3 units

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

Guided Pathways:

SPANISH AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 60 - 61.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Speech-Language Pathologist • Communication Teacher • Media and Communication • Public Relations Specialist • Interpreter • Translator

What your potential plan could look like...

1 First Semester

Total Recommended Units: 16 - 17

- ENGL 001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- MATH 011 or 012 3 - 4 units
(IGETC 2B)
- SPAN 001 5 units
First Semester Spanish
- COMM 001, 002, or 006 3 unit
(IGETC 1C)

2 Second Semester

Total Recommended Units: 15

- ENGL 002 or 004 4 units
(IGETC 1B)
- SPAN 002 5 units
Second Semester Spanish (IGETC 4)
- HIST 017, 018, 028, 029, or 037 3 units
(IGETC 4/American Institutions)
- PLSC 001 or 005 3 units
(IGETC 4/American Institutions)

3 Third Semester

Total Recommended Units: 15-15.5

- SPAN 003 5 units
Third Semester Spanish (IGETC 3B)
- SPAN 011 3 units
Conversational Spanish (LIST A of ADT)
- IGETC 5B/5C 4 - 4.5 units
BIO 012 & 012L, BIO 015, or BIO 016 & 016L
- ART 012, CINA 011, MUSC 013, 3 units
or THEA 013 (IGETC 3A/Cross-Cultural)

4 Fourth Semester

Total Recommended Units: 14

- SPAN 004 5 units
Fourth Semester Spanish
- UC Transferable Elective 3 units
- IGETC 5A 3 units
Suggested: ASTR, GEOL, GEOG
- IGETC 4 3 units

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

Foreign Languages

Associate in Arts in Spanish for Transfer (ADT: A.A.-T)

Program Description

The Associate in Arts Degree in Spanish for Transfer is for students who intend to complete a bachelor's degree in Spanish at a CSU. Students will take courses in Spanish required for Spanish majors. This program teaches writing, reading, speaking, listening and comprehension in the target language, as well as critical thinking skills in the context of engaging and processing cultural materials, with the intent to heighten cultural awareness and sensitivity to diversity.

Students who complete this degree will be guaranteed priority admission with junior status to the California State University system, though not to a particular campus or major. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Spanish for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Spanish for Transfer, will be able to:

1. Build cultural awareness of Spanish-speaking cultures through comparison and contrast of linguistic variances, as well as various customs, societies, and institutions.
2. Demonstrate reading, writing, and analysis in Spanish at the intermediate/high to advanced proficiency level based on the ACTFL guidelines.
3. Demonstrate oral and aural abilities in Spanish at the intermediate/high to advanced proficiency level based on the ACTFL guidelines.

REQUIRED COURSES	Units
SPAN 001 First Semester Spanish	5
SPAN 002 Second Semester Spanish	5
SPAN 003 Third Semester Spanish.....	5
SPAN 004 Fourth Semester Spanish	5
One course from List A	3
Required Major Total Units.....	23

List A: (select one course)	Units
HIST 031 Mexican American/Chicano History	3
SPAN 011 Conversational Spanish	3
SJS 002 Introduction to Race and Ethnicity	3

Foreign Languages

Foreign Languages, General

Associate in Arts

Program Description

This program introduces the fundamentals of language learning (listening, speaking, reading, writing, and culture) with emphasis on language production, grammar, syntax, vocabulary acquisition, and exposure to the culture. This program provides study in more than one language.

The Associate in Arts can be obtained by completing a minimum of 20 units from the major in the two different languages, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Foreign Languages, General Associate in Arts will be able to:

1. Converse in an intermediate level in two or more languages: American Sign Language (ASL), French, or Spanish
2. Demonstrate grammatical and semantic proficiency in paragraph or narrative mode (for ASL) at the intermediate-low level.
3. Understanding of cultural and community differences

REQUIRED COURSES **Units**
Select a minimum of 20 units combined from the different languages.

American Sign Language..... **Units**

ASL 001 American Sign Language 1 3
 ASL 002 American Sign Language 2 3
 ASL 003 American Sign Language 3 3
 ASL 004 American Sign Language 4 3
 ASL 005 American Deaf Culture 3
 ASL 006 Linguistics of American Sign Language 3
 ASL 052 Fingerspelling, Classifiers, and Numbers 3
 ASL 053 Introduction to American Sign Language
 Interpreting 3
 ASL 054 ASL Interpreting Field Work 2
 and
 OCED 090 Occupational Work Experience 1

French **Units**

FREN 001 First Semester French..... 5
 or
 FREN 031 First Semester French, Part 1 3
 and
 FREN 032 First Semester French, Part 2 3
 FREN 002 Second Semester French..... 5
 FREN 003 Third Semester French 5
 FREN 004 Fourth Semester French..... 5
 FREN 011 Conversational French 3
 FREN 012 Intermediate French Conversation..... 3
 FLNG 101 Cross Age Teaching 2
 and
 OCED 090 Occupational Work Experience 1

Spanish..... **Units**

SPAN 001 First Semester Spanish 5
 or
 SPAN 031 First Semester Spanish, Part 1..... 3
 and
 SPAN 032 First Semester Spanish, Part 2..... 3
 SPAN 002 Second Semester Spanish 5
 or
 SPAN 033 Second Semester Spanish, Part 1 3
 and
 SPAN 034 Second Semester Spanish, Part 2 3
 SPAN 003 Third Semester Spanish..... 5
 SPAN 004 Fourth Semester Spanish 5
 SPAN 011 Conversational Spanish 3
 FLNG 101 Cross Age Teaching 2
 and
 OCED 090 Occupational Work Experience 1

Required Major Total Units.....**20**

Foreign Languages

Foreign Languages, Individual (American Sign Language, French, or Spanish)

Associate in Arts

Program Description

This program introduces the fundamentals of language learning (listening, speaking, reading, writing, and culture) with emphasis on language production, grammar, syntax, vocabulary acquisition, and exposure to the culture. This program requires study be accomplished in one language only.

The Associate in Arts in American Sign Language, French, or Spanish can be obtained by completing a minimum of 18 units in one of the languages, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Foreign Languages, Individual Associate in Arts will be able to:

1. Converse at an intermediate-mid level in one language: American Sign-Language (ASL), French, or Spanish
2. Demonstrate grammatical and semantic proficiency in paragraph or narrative mode (for ASL) at the intermediate-mid level in one language: American Sign Language (ASL), French, or Spanish
3. Demonstrate understanding of cultural and community differences

REQUIRED COURSES

American Sign Language (select 18 units) Units

ASL 001 American Sign Language 1	3
ASL 002 American Sign Language 2	3
ASL 003 American Sign Language 3	3
ASL 004 American Sign Language 4	3
ASL 005 American Deaf Culture	3
ASL 006 Linguistics of American Sign Language	3
ASL 052 Fingerspelling, Classifiers, and Numbers	3
ASL 053 Introduction to American Sign Language Interpreting	3
ASL 054 ASL Interpreting Field Work	2
and	
OCED 090 Occupational Work Experience	1

French (select 18 units) Units

FREN 001 First Semester French.....	5
or	
FREN 031 First Semester French, Part 1	3
and	
FREN 032 First Semester French, Part 2	3
FREN 002 Second Semester French.....	5
FREN 003 Third Semester French	5
FREN 004 Fourth Semester French.....	5
FREN 011 Conversational French	3
FREN 012 Intermediate French Conversation.....	3
FREN 049 French Honors.....	1-3
FLNG 101 Cross Age Teaching	2
and	
OCED 090 Occupational Work Experience	1

Spanish (select 18 units)..... Units

SPAN 001 First Semester Spanish	5
or	
SPAN 031 First Semester Spanish, Part 1.....	3
and	
SPAN 032 First Semester Spanish, Part 2.....	3
SPAN 002 Second Semester Spanish	5
or	
SPAN 033 Second Semester Spanish, Part 1	3
and	
SPAN 034 Second Semester Spanish, Part 2	3
SPAN 003 Third Semester Spanish.....	5
SPAN 004 Fourth Semester Spanish	5
SPAN 011 Conversational Spanish	3
SPAN 049 Spanish Honors	1-3
FLNG 101 Cross Age Teaching	2
and	
OCED 090 Occupational Work Experience	1

Required Major Total Units.....18

Geography Department

DEGREES

Geography (AA-T)

COURSES:

[GEOG \(Geography\)](#)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact: Danielle Widemann



P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Guided Pathways:

GEOGRAPHY AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61 - 64

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Geography Teacher • Geographer or Geoscientist • Geospatial Information Scientist and Technologist • Geographic Information Systems Technician • Remote Sensing Scientist and Technologist • Cartographer and Photogrammetrist • City and Regional Planning

What your potential plan could look like...

1 First Semester

Total Recommended Units: 12 - 13

- ENGL 001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- MATH 011 or 012 3 - 4 units
(IGETC 2B)
- GEOG 001 3 units
Physical Geography (IGETC 5A)
- GEOG 001L 1 unit
Physical Geography Lab (IGETC 5C)

2 Second Semester

Total Recommended Units: 16

- ENGL 002 or 004 4 units
(IGETC 1B)
- GEOG 010 3 units
Intro to Geographic Information Systems
- HIST 017, 018, 028, 029, or 037 3 units
(IGETC 3B/American Institutions)
- COMM 001, 002, or 006 3 units
(IGETC 1C)
- UC Transferable Elective 3 units

3 Third Semester

Total Recommended Units: 12-14

- ANTH 002 3 units
Cultural Anthropology (IGETC 4)
- GEOG 004 3 units
World Geography (IGETC 4)
- GEOL 001 3 units
Physical Geography
- ASL 001, FREN 001, or 3 - 5 units
SPAN 001, or UC Transferable Elective*

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

4 Fourth Semester

Total Recommended Units: 15

- GEOG 002 3 units
Cultural Geography (IGETC 4)
- IGETC 5B Suggested: ANTH 001, 3 units
BIO 012, 016, 018, 020, OR 025
- PLSC 001 or 005 3 units
(IGETC 4/American Institutions)
- UC Transferable Elective 3 units
- UC Transferable Elective 3 units

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- ART 012, CINA 011, MUSC 013, or THEA 013 3 units
(IGETC 3A/Cross-Cultural)
- (IGETC 3A or 3B) 3 unit

■ Square, darker color:
Required Courses/
Courses in Discipline

● Rounded, lighter color:
GE Courses/Categories

Geography

Associate in Arts in Geography for Transfer (ADT: A.A.-T)

Program Description

Solano Community College offers an Associate in Arts in Geography for Transfer to introduce students to principles, theory, and applied methods of spatial analysis in studying both the natural and human environment. The degree provides students with a foundation in the knowledge and skills of the Geography profession and prepares them for upper division university course work. The program in Geography is designed to develop the student's awareness of human environment relationships and changes in the physical and cultural landscape induced by human activities.

The Associate in Arts in Geography for Transfer is especially designed for students who plan to complete a bachelor's degree in Geography or similar major at a CSU campus. Students completing an Associate in Arts in Geography for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Arts in Geography for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

The Associate in Arts in Geography for Transfer provides insights about the earth as the human habitat. It is a way of looking at the earth, not an inventory of its contents. This viewpoint rests on fundamental interlocking concepts. The cultural appraisal of the earth, the regional concept, areal coherence, human ecology, spatial interaction, study of landscape, and the concept of change are all ways the geographer tries to better understand the environment.

To earn the Associate in Arts in Geography for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Geography for Transfer will be able to:

1. Use maps and other appropriate geographic tools to interpret and analyze spatial data.
2. Explain the impact of humans on the natural environment.
3. Identify major worldwide spatial political, cultural, economic, and environmental patterns.

REQUIRED COURSES	Units
GEOG 001 Physical Geography	3
GEOG 001L Physical Geography Laboratory	1
GEOG 002 Cultural Geography	3
GEOG 004 World Geography	3
GEOG 010 Introduction to Geographic Information Systems	3
ANTH 002 Cultural Anthropology	3
GEOL 001 Physical Geology	3
Required Major Total Units	19

Geology Department

DEGREES

The Geology Department introduces students to the methods of science as well as the fundamentals of geology. Geology is the study of Earth – its interior and its exterior surface, the rocks and other materials that are around us and the processes (i.e., water flow, changes over time) that have resulted in the formation of those materials. Courses focus on physical geology, earth sciences, geology of California and geographic information systems. The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

COURSES:

[GEOL \(Geology\)](#)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact: Danielle Widemann



History Department

DEGREES

History (AA-T)

COURSES:

HIST (History)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact:

Michelle Arce



P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

Guided Pathways:

HISTORY AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61 - 64.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

History Teacher, Secondary and Postsecondary • Historian •
Curator • Archaeologist

What your potential plan could look like...

1 First Semester

Total Recommended Units: 14 - 15

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 or 012 (IGETC 2B) 3 - 4 units
- COMM 001, 002, or 006 (IGETC 1C) 3 units
- HIST 017 History of the US to 1865 (IGETC 4/American Institutions) 3 units

3 Third Semester

Total Recommended Units: 12-14

- HIST 003 or 005 (IGETC 3B) 3 units
- HIST 037 Women in American History (IGETC 3B/Cross-Cultural) 3 units
- IGETC 5A ASTR, GEOL, or GEOG 3 units
- ASL 001, FREN 001, or SPAN 001, or UC Transferable Elective * 3 - 5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color: Required Courses/
Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2 Second Semester

Total Recommended Units: 14-14.5

- ENGL 002 or 004 (IGETC 1B) 4 units
- IGETC 5B/5C BIO 012 & 012L, BIO 015, or BIO 016 & 016L 4-4.5 units
- HIST 002 or 004 (IGETC 3B) 3 units
- HIST 018 History of the US from 1865 (IGETC 4/American Institutions) 3 units

4 Fourth Semester

Total Recommended Units: 15

- HIST Any course from LIST I, II, or III of the ADT 3 units
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units
- UC Transferable Elective # 3 units
- UC Transferable Elective 3 units
- UC Transferable Elective 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer)

Total Recommended Units: 6

- IGETC 3A 3 units
- UC Transferable Elective 3 units

History

Associate in Arts in History for Transfer (ADT: A.A.-T)

Program Description

This program emphasizes the development of various societies through a chronological study of the major social, political, economic, and cultural forces. Students in this program may study a variety of historical fields including United States, World, Western Civilization, African-American, Mexican-American, California and Women's History.

The Associate in Arts in History for Transfer is especially designed for students who plan to complete a bachelor's degree in History at a CSU campus. Students completing the Associate in Arts in History for Transfer are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the Associate in Arts in History for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree.

To earn the Associate in Arts in History for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete an Associate in Arts in History for Transfer will be able to:

1. Recognize and define a variety of major economic, social, cultural and political events and trends in history.
2. Analyze the significant causal factors that contributed to the shaping of a variety of historical movements, events and trends.
3. Interrogate and analyze primary historical evidence, including textual documents, artifacts and visual images.

REQUIRED COURSES Units

HIST 017 History of the United States to 1877 3

HIST 018 History of the United States from 1865..... 3

HIST 002 World History to 1500 3

or

HIST 004 History of Western Civilization to 1500 3

HIST 003 Modern World History 3

or

HIST 005 History of Western Civilization Since 1500 3

One course from List A or B..... 3

One course from List A, B or C..... 3

Required Major Total Units.....18

List A: World History (if not already used)..... Units

HIST 002 World History to 1500 3

HIST 003 Modern World History 3

List B: Ethnicity and Gender Studies..... Units

HIST 028 African American History to 1877 3

HIST 029 African American History Since 1865 3

HIST 031 Mexican American/Chicano History 3

HIST 037 Women in American History 3

List C: United States..... Units

(any course from this or other lists not already used)

HIST 010 California History 3

HIST 004 History of Western Civilization to 1500 3

HIST 005 History of Western Civilization Since 1500 3

Horticulture Department

DEGREES

Horticulture and Plant Science (AS)

CERTIFICATES OF ACHIEVEMENT

Horticulture and Plant Science

JOB-DIRECT LOW UNIT CERTIFICATES

Landscape Designer

Landscape Technician

COURSES:

HORT (Horticulture)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact: Sandra Diehl

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Horticulture

Horticulture and Plant Science

Certificate of Achievement and Associate in Science

Program Description

This program is designed to provide theory and practical experience needed to enter the horticulture field or prepare for advancement or certification. It also offers some of the basic courses required of horticulture majors transferring to four-year institutions.

The Certificate of Achievement can be obtained by completing the 23-unit major. The Associate in Science can be obtained by completing the 23-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Horticulture Science Certificate of Achievement/Associate in Science will be able to:

1. Design and draft landscape plan.
2. Design an Integrated Pest Management (IPM) plan.
3. Estimate the cost of a landscape construction project.

REQUIRED COURSES	Units
HORT 006 Identification and Ecology of Landscape Plant Materials	4
HORT 030 Landscape Design I	3
HORT 050 Introduction to Horticulture	3
HORT 055 Soils and Fertilizers	3
HORT 056 Landscape Pest Control and Management	4
HORT 070 Landscape Construction and Estimation	3
HORT 071 Irrigation Principles	3
Required Major Total Units	23

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Horticulture Science."

Landscape Designer

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
HORT 006 Identification and Ecology of Landscape Plant Materials	4
HORT 030 Landscape Design I	3
HORT 031 Landscape Design II	3
HORT 050 Introduction to Horticulture	3
Total Units	13

Landscape Technician

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
HORT 006 Identification and Ecology of Landscape Plant Materials	4
HORT 050 Introduction to Horticulture	3
HORT 071 Irrigation Principles	3
OCED 090 Occupational Work Experience	1
Total Units	11

Humanities Department

DEGREES

Humanities is the study of how people process and document the human experience, using philosophy, literature, religion, art, music, and history to understand and record our world. The Humanities are ways of thinking about what is human about our diverse histories values, ideas, and words. The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

COURSES:

[HUMN \(Humanities\)](#)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer



Human Services Department

DEGREES

Human Services (AA)

CERTIFICATES OF ACHIEVEMENT

Human Services

COURSES:

HS (Human Services)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact: Saki Cabrera



P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Human Services

Human Services

Certificate of Achievement and Associate in Arts

Program Description

This program is designed to equip students with the basic knowledge and skills necessary for the variety of jobs in the field of Human Services and Social Work. These courses are intended to provide entry-level skills and training for students who are interested in employment in mental health, social welfare, developmental services, corrections, alcohol and drug treatment, or child/adolescent treatment services.

The Certificate of Achievement can be obtained upon completion of the 23-unit major. The Associate in Arts can be obtained upon completion of the 23-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Human Services Certificate of Achievement/Associate in Arts will be able to:

1. Develop basic knowledge within the field of Human Services.
2. Develop cultural competence.
3. Develop group facilitation skills.
4. Develop case management skills.
5. Apply basic Human Services knowledge and skills in community settings.

REQUIRED COURSES Units

(listed in recommended sequence)

HS 001 Introduction to Human Services.....	3
COUN 062 Helping Skills:	
Creating Alliances & Facilitating Change**	3
HS 053 Serving Special Populations	3
HS 055 Introduction to Case Management	3
COUN 064A Practicum I**	4
HS 054 Introduction to Group Processes.....	3
COUN 064B Practicum II**	4
Required Major Total Units.....	23

***See Counseling section for COUN course descriptions*

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Human Services."

Interdisciplinary Studies

DEGREES

Interdisciplinary Studies:
Science and Quantitative Reasoning (AA)

Interdisciplinary Studies:
Wellness and Self Development (AA)

CONTACT INFORMATION:

Counseling

Building: 400 Room 404

Phone Number: (707) 864-7101

Email: counseling@solano.edu

Dean: Kristin Conner



Interdisciplinary Studies

Interdisciplinary Studies: Science and Quantitative Reasoning

Associate in Arts

Program Description

This major is designed for students who are not certain of their specific academic major goals and do not have immediate transfer plans. It would enable them to earn the Associate Degree by completing general education and the 18-unit major. The program is intended to involve inquiry into the physical universe and its life forms with consideration of facts and principles which form the foundations of living and non-living systems. Students will explore scientific methodologies as investigative tools, the acquisition and use of evidence, and the past and present influences of science on world civilizations. Understanding and analysis of basic mathematical and quantitative reasoning concepts will be explored. This program includes courses in areas such as computer science, math, and science.

The Associate in Arts can be obtained by completing a minimum of 18-units in the major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Interdisciplinary Studies: Science and Quantitative Reasoning Associate in Arts will be able to:

1. Discern the relationship between personal perspective and evidence-based evaluation of information..
2. Discover the nature and common themes of the disciplines represented
3. Acquire a knowledge base that encourages lifelong learning in order for them to effectively adapt to a complex and changing society.

REQUIRED COURSES:

Minimum 6 units from Science

Minimum 6 units from Quantitative Reasoning

6 units from Science and/or Quantitative Reasoning

**Chemistry courses may not be used in both areas, must choose one area.*

Required Major Total Units.....18

Science

ANTH 001

ASTR 010, 020, 030, 040

BIO 002, 003, 004, 005, 012, 012L, 015, 016, 018, 019

CHEM* 001, 002, 003, 004, 010, 011, 051, 160

ENGR 017, 030, 045

GEOG 001, 001L

GEOL 001, 002, 005

HORT 050

KINE 020V, 020W

NUTR 010

PHYS 002, 004, 006, 007, 008, 010

PHSC 012

PSYC 002

Quantitative Reasoning

CIS 001, 015, 020, 022, 023, 035, 050, 055, 057, 060, 073, 078

CHEM* 001, 002, 010, 160

GEOG 010 or GEOL 010

MATH 002, 004, 011, 012, 020, 021, 022, 023, 030, 031, 040, 051, 102, 103, 104, 112, 114

PSYC 004

Interdisciplinary Studies

Wellness and Self Development

Associate in Arts

Program Description

This program is designed to equip students with the informative tools to support education in lifelong wellness and self-development. Students will be well acquainted with the vast landscape of wellness, self development, while considering the psychological, biological, developmental, and physical factors involved. They will be able to make more effective decisions about optimizing their own wellness, lifestyle and performance.

The Associate in Arts can be obtained by completing the 18-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete an Associate Degree will be able to:

1. Apply the theories of Wellness and Self Development with attention to personal, professional growth and vocational/life purpose.
2. Apply understanding of personal self and others to gain insight in both a psychological and biological perspective, thereby, enhancing personal wellness and community relationships.
3. Acquire a knowledge base that encourages lifelong learning for students to effectively adapt to a complex and changing society.

REQUIRED COURSES	Units
3 units from Wellness Required	3
3 units from Self Development Required	3
3 units of any Wellness course(s)	3
3 units of any Self Development course(s)	3
6 units of any Wellness and/or Self Development course(s)	6
<i>**courses may only be used one time within the major</i>	
Required Major Total Units	18

WELLNESS

Required (select a minimum of one course)..... Units

HED 002 Health Education	3
HED 003 Women's Health Issues.....	3
KINE 057 Introduction to Sports Psychology	3
NUTR 010 Nutrition.....	3

Electives

ATHL* 001, 002A, 002B, 003, 004, 010, 015, 016A, 016B,
022
BIO 004, 005, 016, 018, 020
CDFS 054
DANC 004, 004A, 004B, 004C, 004D, 004E, 004F, 004G,
004H, 004J, 004K, 004M, 004N, 004P, 004S, 004T
KINE 020A, 020S, 020V, 020W
KINE Activity*: 002A, 002B, 002D, 003A, 003D, 003E, 005C,
005J, 005K, 005M, 005N, 005P, 006A, 006C, 006D,
006E, 006F, 007F, 008A, 008B, 009B, 009H, 009P,
078
NUTR 054

**Maximum 3 units of DANC, KINE, or ATHL activity courses*

SELF DEVELOPMENT

Required (select a minimum of one course)..... Units

COUN 005 Career-Life Planning.....	3
COUN 007 College Study Techniques	3
COUN 015 Valuing Diversity	3
COUN 023 Psychology for Modern Life	3
PSYC 020 Personal and Social Behavior.....	3

Electives

CDFS 038, 040, 050, 070
COMM 001, 008, 010
COUN 058, 062
HS 001, 053, 054
OCED 070, 071
PSYC 001, 005, 006, 012, 034, 040
SJS 002, 030

Journalism Department

DEGREES

Journalism (AA-T)
Journalism (AA)

COURSES

JOUR (Journalism)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Guided Pathways:

JOURNALISM (AA-T)

Associate in Arts for Transfer | GE Pattern: CSU GE | Program Total Units: 62 - 62.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Broadcast News Analyst • Communications or Journalism Teacher •
Photographer • Proofreader and Copy Marker • Reporter or Correspondent •
Radio and Television Announcer

What your potential plan could look like...

1 First Semester

Total Recommended Units: 15

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 Introduction to Statistics (CSU GE B4) 4 units
- JOUR 001 Newswriting and Reporting 3 units
- ART 012, CINA 011, MUSC 013, or THEA 013 (CSU GE C1/Cross-Cultural) 3 unit

3 Third Semester

Total Recommended Units: 15

- HIST 003 or 005 (IGETC 3B) 3 units
- COMM 006 Argumentation and Debate 3 units
- CSU GE B1 ASTR, GEOL, or GEOG 3 units
- HIST 017, 018, 028, 029, or 037 (CSU GE C2/American Institutions) 3 units
- UC Transferable Elective 3 units

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester

Total Recommended Units: 14-14.5

- ENGL 002 or 004 (CSU GE A3) 4 units
- COMM 001 or 002 (CSU GE A1) 3 units
- JOUR 011 Intro to Mass Communication (CSU GE D) 3 units
- BIO 012 & 012L, 015 or 016 & 016L (CSU GE B2/B3) 4-4.5 units

4 Fourth Semester

Total Recommended Units: 12

- JOUR 061 Publications Laboratory II 3 units or PHOT 056 Photojournalism
- PLSC 001 or 005 (CSU D/American Institutions) 3 units
- CSU GE C1 or C2 Suggested: ENGL 006 or 058 3 units
- CSU GE D Suggested: PSYC 001 or SOC 001 3 units

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- CSU GE E 3 units
- UC Transferable Elective 3 unit

Journalism

Associate in Arts in Journalism for Transfer (ADT: A.A.-T)

Program Description

Journalism teaches critical thinking and communication skills that enable students to translate events and issues of importance accurately and responsibly. The Associate in Arts in Journalism for Transfer is intended for students who plan to complete a bachelor's degree in Journalism, Mass Communication, Public Relations or Advertising at a CSU campus. Students completing this degree are guaranteed priority admission to the CSU system, but not to a particular campus or major.

Students will gain first-hand experience of journalism through practicum on the student newspaper, The Tempest, and its online version *Solanotempest.net*, and in some cases through placement in internships in the industry. Students learn the ethics and laws associated with journalism, as well as develop an understanding their own First Amendment rights.

To earn the Associate in Arts in Journalism for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Journalism for Transfer will be able to:

1. Demonstrate the research and critical thinking skills necessary to analyze and interpret current issues in a professional media environment.
2. Demonstrate a working knowledge of the written, oral and visual communication skills necessary to analyze, interpret and produce accurate news and editorials across a variety of platforms.
3. Analyze and debate the legal and ethical issues of journalism and apply them to individual circumstances.
4. Demonstrate a working knowledge of the fundamental technological applications of media production.

REQUIRED COURSES Units

JOUR 001 Newswriting and Reporting	3
JOUR 011 Introduction to Mass Communication	3
JOUR 060 Publications Laboratory	3
One course from List A	3
Two courses from List B.....	6-7
Required Major Total Units.....	18-19

List A: (select one course): Units

JOUR 061 Publications Laboratory II	3
PHOT 056 Photojournalism & Documentary Photography.....	3

List B: (select two courses):..... Units

CIS 085 Digital Publishing with InDesign	3
COMM 006 Argumentation and Debate.....	3
ECON 001 Principles of Economics (Macroeconomics) ..	3
or	
ECON 002 Principles of Economics (Microeconomics) ..	3
MATH 011 Elementary Statistics.....	4

Journalism

Journalism

Associate in Arts

Program Description

Journalism teaches critical thinking and communication skills that enable students to translate events and issues of importance accurately and responsibly. Student who may benefit from the major are those anticipating careers in newspapers; television or film; photojournalism; layout, computer graphics or graphic design; advertising or public relations; or media management.

The Associate in Arts can be obtained upon completion of the 24-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Journalism Associate in Arts will be able to:

1. Demonstrate the fundamental research and critical thinking skills necessary to analyze and interpret current issues in a professional media environment.
2. Utilize written, oral and visual communication skills to analyze, interpret and produce accurate news and opinions across a variety of platforms.
3. Recognize fundamental legal and ethical aspects of journalism and apply them to real-life circumstances.
4. Demonstrate a working knowledge of the fundamental technological applications of media production.

REQUIRED COURSES	Units
JOUR 001 Newswriting and Reporting	3
JOUR 002 Introduction to Feature and Magazine Writing.....	3
JOUR 011 Introduction to Mass Communication	3
JOUR 060 Publications Laboratory	3
12 Units of Program electives from List A, List B, and List C.....	12
Required Major Total Units	24

List B: (select a minimum of 3 units)	Units
ART 006 Design Principles in 2-Dimensions	3
ART 007 Design-Color.....	3
ART 052 Lettering and Layout.....	2-3
ART 056 Graphic Design I	3
ART 057 Graphic Design II	3
COMM 001 Introduction to Public Speaking	3
ENGL 006 Creative Writing 1	3
ENGL 058 Creative Writing: The Literary Magazine.....	3
JOUR 050 Grammar and Style for Media Writers.....	1
PHOT 030 Beginning Photography	3
PHOT 056 Photojournalism & Documentary Photography.....	3
PHOT 070 Beginning Digital Photography	3
THEA 050 Performance for the Camera	3
TV 055 Beginning Television Production	3
TV 056 Advanced Television Production	3
TV 060 Television and Film Writing	3

Program electives are intended to improve students' critical thinking and communication skills and to give them tools to succeed in the workplace. Students must take at least three units in each of the following areas:

List A: (select a minimum of 3 units)	Units
ENGL 002 Critical Thinking and Writing About Literature	4
ENGL 004 Critical Thinking and Composition: Language in Context	3
COMM 006 Argumentation and Debate.....	3
MATH 011 Elementary Statistics	4
PHIL 005 Critical Thinking: The Philosophic Grounds of Literacy.....	3

List C (select a minimum of 3 units)	Units
OCED 090 Occupational Work Experience	1-8
Any modern foreign language	

Kinesiology Department

DEGREES

Kinesiology (AA-T)
Sports Medicine/Athletic Training (AS)
Dance (AA) see Dance Department

COURSES

ATHL (Athletics)
DANC (Dance)
HED (Health Education)
KINE (Kinesiology)
SPMD (Sports Medicine)

CONTACT INFORMATION:

School of Health Sciences

Building: 800 Room 805B
Phone Number: (707) 864-7108
Fax Number: (707) 646-2062

Dean: Sheila Hudson

Administrative Assistant: Janet Schwartz

Faculty Contact:

Matt Borchert	Curtiss Brown
Ginger Cain	Jeff Cardinal
Kevin Marks	John Nagle
Scott Parrish	Terri Pearson-Bloom
Scott Stover	Darla Williams

INTERCOLLEGIATE ATHLETICS

Building: 1700A Room 1734
Phone Number: (707) 864-7119
Fax Number: (707) 646-2084

Athletic Director: Erik Visser
Assistant Athletic Director: Alison Aubert

Administrative Assistant: Melissa Pegg

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Guided Pathways:

KINESIOLOGY (AA-T)

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Physical or Occupational Therapist • Exercise Physiologist • Sports Administrator • Fitness Coach/Trainer

What your potential plan could look like...

1 First Semester

Total Recommended Units: 16

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 Introduction to Statistics (CSU GE B4) 4 units
- KINE 020A Introduction to Kinesiology 3 units
- UC Transferable Elective 3 units
- Movement-based Course Max one per group* 3 units

3 Third Semester

Total Recommended Units: 15

- COMM 006 Argumentation and Debate 3 units
- CSU GE B1 ASTR, GEOL, or GEOG 3 units
- HIST 017, 018, 028, 029, or 037 (CSU GE C2/American Institutions) 3 units
- Movement-based Course Max one per group* 3 units

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester

Total Recommended Units: 15

- ENGL 002 or 004 (IGETC 1B) 4 units
- BIO 016 Intro to Human Biology (List A) 3 units
- CHEM 012 or 001 (IGETC 5A/5C) 5 units
- IGETC 3A or 3B 3 units

4 Fourth Semester

Total Recommended Units: 12

- BIO 005 Human Physiology 5 units
- ART 012, CINA 011, MUSC 013, or THEA 013 (IGETC 3A/Cross-Cultural) 3 units
- (IGETC 4) Suggested: PSYC 001 3 units
- Movement-based Course Max one per group* 1 unit

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- COMM 001, 002, or 006 (IGETC 1C) 3 units
- HIST 017, 018, 028, 029, or 037 (CSU GE C2/American Institutions) 3 units

*Max one Movement-based Course per group:
Aquatics, Combatives, Dance, Fitness,
Individual, or Team.

Kinesiology

Associate in Arts in Kinesiology for Transfer (ADT: A.A.-T)

Program Description

The Associate in Arts in Kinesiology for Transfer is designed to provide a seamless transfer pathway for students interested in pursuing at least one Kinesiology degree option in the CSU system. Students who earn the Associate in Arts in Kinesiology for Transfer will receive guaranteed priority admission to the CSU system, but not to a particular campus or major.

Successful completion of the Associate in Arts in Kinesiology for Transfer prepares students to transfer into the CSU system and work in the sub-fields of Kinesiology. Students will learn about human functioning during sport and exercise, how exercise science and biomechanics is integrated into exercise program development, and observation and assessment of human performance. The Associate in Arts in Kinesiology for Transfer degree can provide students with the foundational knowledge necessary for transfer to a 4-year Bachelor of Science (BS) or Bachelor of Arts (BA) degree program. Students are encouraged to meet with a counselor to develop their educational plans as degree options and general education requirements vary for each university.

To earn the Associate in Arts in Kinesiology for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Kinesiology for Transfer will be able to:

1. Identify major microscopic and gross structures of the major systems of the human body.
2. Describe normal physiological processes.
3. Describe the different sub disciplines of Kinesiology.
4. Describe the role of physical activity in daily life.
5. Explain the career options available to students graduating from departments of Kinesiology

REQUIRED COURSES	Units
BIO 004 Human Anatomy	5
BIO 005 Introductory Physiology	5
KINE 020A Introduction to Kinesiology.....	3
Two courses from List A.....	6-10
3 units from Movement-based courses (maximum of one course from any group).....	3
Required Major Total Units.....	22-26

List A: (select two courses, only one from same subject such as CHEM or PHYS)	Units
BIO 016 Introduction to Human Biology	3
CHEM 001 General Chemistry	5
CHEM 012 Chemistry for Health Services.....	5
KINE 020S Advanced First Aid and Emergency Care.....	3
MATH 011 Elementary Statistics.....	4
PHYS 002 General Physics (Non-calculus)	5
PHYS 006 Physics for Science and Engineering.....	5

Kinesiology

MOVEMENT-BASED COURSES

Aquatics: (maximum of one course) Units

KINE 002A Beginning Swimming	1
KINE 002B Intermediate Swimming	1
KINE 002D Swim for Fitness	1

Combatives: (maximum of one course)..... Units

KINE 003A Beginning Self Defense	1
KINE 003D Beginning Judo	1
KINE 003E Intermediate Judo	1
KINE 006A Cardio Kickboxing	1

Dance: (maximum of one course) Units

DANC 004A Beginning Contemporary Modern Dance	1
DANC 004B Beginning Tap Dance	1
DANC 004C Intermediate Tap Dance	1
DANC 004D Advanced Jazz Dance	1
DANC 004F Beginning Hip-Hop Dance	1
DANC 004H Beginning Jazz Dance	1
DANC 004J Beginning Ballroom Dance	1
DANC 004K Beginning Ballet	1
DANC 004M Intermediate Ballet	1
DANC 004N Beginning Swing Dance.....	1
DANC 004P Intermediate Jazz Dance	1
DANC 004S Intermediate Swing Dance	1
DANC 004T Intermediate Ballroom Dance	1

Fitness: (maximum of one course) Units

KINE 005D Circuit Training.....	1
KINE 005E Cardio Conditioning	1
KINE 005J Beginning Body Conditioning.....	1
KINE 005K Intermediate Body Conditioning.....	1
KINE 005M Beginning Weight Training.....	1
KINE 005N Intermediate Weight Training.....	1
KINE 005P Step Aerobics	1
KINE 005R Functional & Core Training	1
KINE 006C Pilates for Fitness	1
KINE 006E Fundamentals of Yoga	1
KINE 006F Intermediate Yoga	1
KINE 078 Fit Ball Training.....	1

Individual Sports: (maximum of one course)..... Units

KINE 007F Beginning Archery	1
KINE 008A Beginning Tennis	1
KINE 008B Intermediate Tennis	1
KINE 008E Beginning Badminton.....	1
KINE 008F Intermediate Badminton.....	1

Team Sports: (maximum of one course)..... Units

KINE 009A Beginning Basketball.....	1
KINE 009B Indoor/Outdoor Soccer.....	1
KINE 009C Intermediate Soccer.....	1
KINE 009E Intermediate Basketball	1
KINE 009F Beginning Baseball	1
KINE 009G Softball.....	1
KINE 009H Beginning Volleyball	1
KINE 009P Intermediate Volleyball.....	1

Kinesiology

Sports Medicine/Athletic Training

Associate in Science

Program Description

The Department of Kinesiology at Solano Community College offers a Sports Medicine Program. We are proud of our program and it's students. The program is very strong academically with a core of science courses and hands-on laboratories. The intent of the program is to increase the students' breadth and depth of knowledge relative to the discipline of Kinesiology and Health Science; to provide the opportunity for students to engage in scholarly activity that includes creative, critical, and analytical thinking; and to provide a focus of study that will enhance career commitment and allow for experiences that will lead to continued self-development and growth.

The Associate in Science can be obtained upon completion of the 25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Sports Medicine/Athletic Training Associate in Science will be able to:

1. Recognize and identify common athletic injuries and the role the certified athletic trainer plays in injury assessment.
2. Complete athletic training competency skills required in first 2 years of ATEP Athletic Training programs. Develop and apply strategies to prevent the incidence and/or severity of injury and illnesses
3. Apply clinical and decision making skills to respond to acute injury and illness; including emergencies
4. Assess patient status and develop treatment and rehabilitation that are consistent with contemporary disablement models
5. Identify, in the laboratory, major microscopic and gross structures of the major systems of the human body.

REQUIRED COURSES	Units
BIO 004 Human Anatomy.....	5
CHEM 010 Intermediate Chemistry.....	4
KINE 020A Introduction to Kinesiology.....	3
SPMD 054 Care and Prevention of Athletic Injuries	3
KINE 020S Advanced First Aid and Emergency Care.....	3
SPMD 055A Sports Medicine-Athletic Training Practicum Fall Sports.....	3
SPMD 055B Sports Medicine-Athletic Training Practicum Spring Sports	3
SPMD 071 Back Care and Injury Management.....	1
Required Major Total Units	25

Learning Resources

DEGREES

Learning resources classes support students in their coursework by exploring information competency, the ability to find, evaluate, use, and communicate information in all its various formats. Information competency includes consideration of the ethical and legal implications of information and requires the application of both critical thinking and communication skills. LR 010 is a co-requisite of ENGL 001: College Composition, and teaches skills that can be applied in all research and inquiry.

The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

COURSES

[LR \(Learning Resources\)](#)

CONTACT INFORMATION:

Library

Building: 100, Library

Phone Number: (707) 864-4519

Email: scclibrary@solano.edu



Liberal Studies

DEGREES

Liberal Studies(AA)

CONTACT INFORMATION:

Counseling

Building: 400 Room 404

Phone Number: (707) 864-7101

Email: *counseling@solano.edu*

Dean: Kristin Conner



Liberal Studies

Liberal Studies

Associate in Arts

Program Description

This program is designed to broaden students knowledge, abilities, and skills to create a foundation in the liberal arts. Students gain a broad background in the social and behavioral sciences, humanities, communication, fine and performing arts, mathematics, and the physical and biological sciences. The students are able to complete lower division major preparation and general education for transfer while simultaneously completing the Liberal Studies Associate in Arts. This program provides opportunities for students who are exploring degree options and are not yet certain about their specific degree goals at the four-year level.

The Associate in Arts can be obtained by completing the 23-25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes:

Students completing the Liberal Studies Associate in Arts will be able to:

1. Apply an understanding of how diverse cultural beliefs and social, political and/or historical context impact forms of human expression.
2. Demonstrate quantitative reasoning skills through problem solving.
3. Students will successfully communicate ideas through various forms of expression.

REQUIRED COURSES Units

COMM 001 Introduction to Public Speaking	3
ENGL 001 College Composition	4
ENGL 002 Critical Thinking and Writing About Literature.....	4
or	
ENGL 004 Critical Thinking and Composition: Language in Context	4
MATH 011 Elementary Statistics.....	4
or	
MATH 012 Mathematical Ideas	3
One course from List A: Social Sciences	3
One course from List B: Health and Science.....	3-4
One course from List C: Arts and Humanities.....	3
Required Major Total Units	23-25

List A: Social Sciences (select one course) Units

ANTH 002 Cultural Anthropology	3
GEOG 002 Cultural Geography	3
PLSC 001 Introduction to American Government and Politics.....	3
PSYC 001 Introduction to Psychology	3
PSYC 012 Introduction to Gender	3
SOC 001 Introduction to Sociology.....	3
SOC 002 Social Issues and Problems	3
SOC 040 Sociology of the Family	3
SOC 075 Introduction to Sociology of Sport	3

List B: Health and Science (select one course) Units

ASTR 010 General Astronomy	3
BIO 015 Introduction to Biology	4
BIO 016 Introduction to Human Biology	3
KINE 020A Introduction to Kinesiology.....	3
GEOG 001 Physical Geography	3
GEOL 001 Physical Geology	3
GEOL 005 Geology of California	3

List C: Arts and Humanities (select one course)..... Units

ART 001 Art History	3
ART 002 Art History	3
ART 010 Art Appreciation	3
ART 012 Inside/Outside: The Cultures and Identities of Diverse Visual Artists in the U.S.	3
CINA 011 American Cultures in Film.....	3
HIST 017 History of the United States to 1877	3
HIST 018 History of the United States from 1865.....	3
HIST 028 African American History to 1877	3
HIST 029 African American History Since 1865	3
MUSC 008 Music Appreciation.....	3
MUSC 013 Multicultural Music in America.....	3
PHIL 003 Introduction to Philosophy	3
PHIL 004 Introduction to Moral Philosophy	3

Mathematics Department

DEGREES

Mathematics (AS-T)

COURSES

MATH (Mathematics)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

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Kevin Brewer

Joseph "Joe" Conrad

Sarah Donovan

Carlos Esteve

Thomas "Tom" Grube

Susanna Gunther

Zak Hannan

Alan Jian

Will Martinelli

Svetlana Podkolzina

Genele Rhoads

Randy Robertson

Kheck Sengmany

Mary Anne Valch

Dmitriy Zhiv

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Guided Pathways:

MATHEMATICS (AS-T)

Associate in Science for Transfer | GE Pattern: IGETC | Program Total Units: 63-67.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Mathematician • Mathematics or Mathematical Science Teacher •

Mathematical Technician • Statistician

What your potential plan could look like...

1

First Semester

Total Recommended Units: 16

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 020 Analytic Geometry & Calculus I (IGETC 2) 5 units
- ART 012, CINA 011, MUSC 013, or THEA 013 (IGETC 3A/Cross-Cultural) 3 units
- HIST 017, 018, 028, 029, or 037 (CSU GE C2/American Institutions) 3 units

3

Third Semester

Total Recommended Units: 12-14

- MATH 022 Analytic Geometry and Calculus III 4 units
- MATH 040 Introduction to Linear Algebra 5 units
- ASL 001, FREN 001, or SPAN 001, or UC Transferable Elective * 3 - 5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color: Required Courses/
Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2

Second Semester

Total Recommended Units: 15

- ENGL 002 or 004 (IGETC 1B) 4 units
- MATH 021 Analytic Geometry and Calculus II 5 units
- IGETC 4 3 units
- IGETC 3A or 3B 3 units

4

Fourth Semester

Total Recommended Units: 14-16.5

- MATH 023 Intro to Ordinary Differential Equations 4 - 5 units
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units
- IGETC 5B Suggested: BIO 012, 016, 018, 020, OR 025 3 units
- IGETC 5A/5C ASTR 010 & 020, GEOL 001 & 002, GEOG 001 & 001L 4 - 4.5 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer)

Total Recommended Units: 6

- COMM 001, 002, or 006 (IGETC 1C) 3 units
- IGETC 4 3 units

Mathematics

Associate in Science in Mathematics for Transfer (ADT: A.S.-T)

Program Description

Successful completion of this major will assure competence in mathematics through differential and integral calculus, providing an adequate background for employment in many technological and scientific areas as well as providing a firm foundation for students planning to pursue a baccalaureate degree in mathematics.

The Associate in Science in Mathematics for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Mathematics at a CSU campus. Students completing the AS-T degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for mathematics degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Science in Mathematics for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Science in Mathematics for Transfer will be able to:

1. Solve problems expressed symbolically.
2. Analyze problems using a graphical or numerical perspective.
3. Interpret and analyze information to develop strategies to solve applications.

REQUIRED COURSESUnits

MATH 020 Analytic Geometry and Calculus I 5

MATH 021 Analytic Geometry and Calculus II 5

MATH 022 Analytic Geometry and Calculus III 4

MATH 040 Introduction to Linear Algebra 3

MATH 023 Differential Equations 4

or

MATH 011 Elementary Statistics 4

Required Major Total Units.....21

Music Department

DEGREES

Music (AA-T)
Music-Instrumental (AA)
Music-Vocal (AA)

COURSES

MUSC (Music)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer

Faculty Contact:

Kristy Juliano

Teri Yumae



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Guided Pathways:

MUSIC AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 62-62.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Music Therapist • Musician • Music Director • Music Instructor •
Music Composer and Arranger • Sound Engineer

What your potential plan could look like...

1 First Semester

Total Recommended Units: 13.5

- ENGL 001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- MATH 011 or 012 4 units
(IGETC 2B)
- COMM 001 1 unit
Intro to Public Speaking (IGETC 1C)
- COMM 012 3 units
Intercultural Comm (IGETC 4/Cross-cultural)
- COMM 012 .5 units
Intercultural Comm (IGETC 4/Cross-cultural)

3 Third Semester

Total Recommended Units: 15.5-16

- MUSC 003 4 units
Advanced Theory I
- MUSC 040C .5 units
Applied Music III
- ENSEMBLE COURSE 1 unit
3 of 4 Required
- IGETC 5A/5C Suggested: 4-4.5 units
ASTR 010 & 020, GEOL 001 & 002, or GEOG 001/001L
- HIST 017, 018, 028, 029, or 037 3 units
(IGETC 3B/American Institutions)
- ART 012, CINA 011, MUSC 013, 3 units
or THEA 013 (IGETC 3A/Cross-Cultural)

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- COMM 001, 002, or 006 3 units
(IGETC 1C)
- IGETC 4 3 units

2 Second Semester

Total Recommended Units: 12.5

- ENGL 002 or 004 4 units
(IGETC 1B)
- MATH 012 3 units
Quantitative Reasoning (IGETC 2B)
- MUSC 002 4 units
Beginning Theory II
- MUSC 040B .5 units
Applied Music II
- ENSEMBLE COURSE 1 unit
2 of 4 Required

4 Fourth Semester

Total Recommended Units: 14.5

- MUSC 004 4 units
Advanced Theory II
- ENSEMBLE COURSE 1 units
4 of 4 Required
- MUSC 040D .5 units
Applied Music IV
- PLSC 001 or 005 3 units
(IGETC 4/American Institutions)
- IGETC 5B Suggested: 3 units
BIO 012, 016, 018, 020, OR 025
- IGETC 4 3 units

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

Music

Associate in Arts in Music for Transfer (ADT: A.A.-T)

Program Description

The Associate in Arts in Music for Transfer provides students with the foundations for a broad range of musical specializations such as instrumental performance, vocal performance, jazz performance, composition, theory, musicology, ethnomusicology, music education, and music industry.

The Associate in Arts in Music for Transfer provides students with the foundations for a broad range of musical specializations such as instrumental performance, vocal performance, jazz performance, composition, theory, musicology, ethnomusicology, music education, and music industry. The Associate in Arts in Music for Transfer provides students with a major that fulfills the general requirements of the California State University for transfer. Students completing an Associate in Arts in Music for Transfer are guaranteed priority admission with junior status to the CSU system, but not to a particular campus or major.

To earn the Associate in Arts in Music for Transfer, students must:

1. complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Music for Transfer will be able to:

1. Analyze and perform the elements of music (rhythm, melody, harmony and form) with technical facility and artistry as a soloist and as a member of an ensemble.
2. Analyze musical scores and compositions.
3. Critique personal music performances and those of other musicians

REQUIRED COURSES	Units
MUSC 005 Music Fundamentals.....	3
MUSC 001 Beginning Theory I.....	4
MUSC 002 Beginning Theory II	4
MUSC 003 Advanced Theory I	4
MUSC 008 Music Appreciation.....	3
MUSC 040A Applied Music I	0.5
MUSC 040B Applied Music II	0.5
MUSC 040C Applied Music III	0.5
MUSC 040D Applied Music IV	0.5
Four semesters of Large Ensemble courses	4
Required Major Total Units.....	24

LARGE ENSEMBLE COURSES	Units
MUSC 009 Wind Ensemble	1
MUSC 010 Concert Band	1
MUSC 011 Symphonic Band	1
MUSC 014 Jazz Ensemble	1
MUSC 015 Stage Band	1
MUSC 016 Symphony Orchestra	1
MUSC 017 Chamber Orchestra	1
MUSC 020 Choir	1
MUSC 024 Master Works Chorale	1
MUSC 025 Chamber Choir	1
MUSC 026 Vocal Jazz Ensemble	1

Music

Music-Instrumental

Associate in Arts

Program Description

This program gives students the opportunity to gain the skills and knowledge needed as preparation for careers in music. Required courses include theory and musicianship, piano proficiency and large performance ensemble. Performance opportunities in both vocal and instrumental music enhance a student's understanding and skill levels. The choice of music history/literature courses enables the student to customize his/her own needs and/or special interests. The music faculty is dedicated to assisting students in exploring performance and teaching opportunities. The degree provides students the foundations for a broad range of musical specializations such as traditional instrumental performance, jazz performance, composition, theory, musicology, ethnomusicology, music education, and music industry.

The Associate in Arts can be obtained by completing the 27-28-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Music-Instrumental Associate in Arts will be able to:

1. Analyze and perform the elements of music (rhythm, melody, harmony and form) with technical facility and artistry as a soloist and as a member of an ensemble.
2. Analyze and compose musical exercises using a variety of technical skills.
3. Critique personal music performances and those of other musicians.
4. Compare and contrast the characteristics of various musical cultures and historical periods.

REQUIRED COURSES **Units**

MUSC 001 Beginning Theory I	4
MUSC 002 Beginning Theory II	4
MUSC 003 Advanced Theory I	4
MUSC 005 Music Fundamentals	3
MUSC 041A Music Majors Piano	1
MUSC 041B Music Majors Piano	1
One course from List A	1
Two courses from List B	2-3
One course from List C	3
Three units from list D (One performance ensemble each semester).....	3

Required Major Total Units**27-28**

List A: (select one course) **Units**

MUSC 010 Concert Band	1
MUSC 014 Jazz Ensemble	1
MUSC 017 Chamber Orchestra	1
MUSC 020 Choir	1

List B: (select two courses) **Units**

MUSC 029 Intermediate Piano Part I.....	1
MUSC 030 Intermediate Piano Part II.....	1
MUSC 031 Class Lessons in Woodwinds.....	1
MUSC 032 Class Lessons in Brass	1
MUSC 033 Class Lessons in Strings	1
MUSC 034 Class Lessons in Percussion.....	1.5
MUSC 038 Class Lessons in Beginning Guitar	1.5

MUSC 039 Class Lessons in Intermediate Guitar	1.5
MUSC 042A Jazz and Pop Piano	1
MUSC 042B Jazz and Pop Piano	1

List C: (select one course) **Units**

MUSC 007 Jazz and Popular Music in America: Ragtime to rock.....	3
MUSC 008 Music Appreciation	3
MUSC 013 Multicultural Music in America	3
MUSC 045 History of Rap and Hip-Hop	3

List D: (select three units) **Units**

(One performance ensemble each semester)	
MUSC 009 Wind Ensemble.....	1
MUSC 010* Concert Band	1
MUSC 014* Jazz Ensemble	1
MUSC 015 Stage Band.....	1
MUSC 016 Symphony Orchestra	1
MUSC 017* Chamber Orchestra.....	1
MUSC 021 Chorus.....	1
MUSC 024 Master Works Chorale	1

*If not used in List A

MUSC 027 recommended the first semester of enrollment for students who do not have strong music reading skills. Please consult with an instructor.

Music

Music-Vocal

Associate in Arts

Program Description

This program gives students the opportunity to gain the skills and knowledge needed as preparation for careers in music. Required courses include theory and musicianship, piano proficiency and large ensemble. Performance opportunities in both vocal and instrumental music enhance a student's assimilation and skill levels. The choice of music history/literature courses enables the student to customize his/her own needs and/or special interests. The music faculty is dedicated to assisting students in exploring performance and teaching opportunities. The degree provides students the foundations for a broad range of musical specializations such as solo vocal performance, choral performance, choral directing, composition, theory, musicology, ethnomusicology, music education, as well as a broad range of specialties in the music industry.

The Associate in Arts can be obtained by completing the 27-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Music-Vocal Associate in Arts will be able to:

1. Analyze and perform the elements of music (rhythm, melody, harmony and form) with technical facility and artistry as a soloist and as a member of an ensemble.
2. Analyze and compose musical exercises using a variety of technical skills.
3. Critique personal music performances and those of other musicians.
4. Compare and contrast the characteristics of various musical cultures and historical periods.

REQUIRED COURSES	Units
MUSC 001 Beginning Theory I.....	4
MUSC 002 Beginning Theory II.....	4
MUSC 003 Advanced Theory	4
MUSC 005 Music Fundamentals	3
MUSC 041A Music Majors Piano	1
MUSC 041B Music Majors Piano	1
MUSC 024 Master Works Chorale	1
or	
MUSC 025 Chamber Choir	1
Two courses from List A	2
One course from List B	3
Three units from List C (One performance ensemble each semester).....	3
Required Major Total Units	27

List A: (select two courses)	Units
MUSC 029 Intermediate Piano Part I.....	1
MUSC 030 Intermediate Piano Part II.....	1
MUSC 035A Beginning Voice I	1
MUSC 035B Beginning Voice II	1
MUSC 036A Intermediate Voice I	1
MUSC 036B Intermediate Voice II	1
MUSC 051 Jazz and Popular Solo voice	1

List B: (select one course)	Units
MUSC 007 Jazz and Popular Music in America: Ragtime to rock.....	3
MUSC 008 Music Appreciation	3
MUSC 013 Multicultural Music in America	3
MUSC 045 History of Rap and Hip-Hop.....	3

List C: (select three units)	Units
One performance ensemble each semester	
MUSC 014 Jazz Ensemble	1
or	
MUSC 017 Chamber Orchestra.....	1
MUSC 020 Choir	1
MUSC 021 Chorus	1
MUSC 024* Master Works Chorale	1
MUSC 025* Chamber Choir.....	1
MUSC 026 Vocal Jazz Ensemble	1

*If not used in Required Courses

MUSC 027 recommended the first semester of enrollment for students who do not have strong music reading skills. Please consult with an instructor

Nursing Department

DEGREES

Registered Nursing (AS)

JOB-DIRECT LOW UNIT CERTIFICATES

Certified Nursing Assistant

COURSES

NURS (Nursing)

CONTACT INFORMATION:

School of Health Sciences

Building: 800 Room 805B

Phone Number: (707) 864-7108

Fax Number: (707) 646-2062

Dean: Sheila Hudson

Administrative Assistant: Janet Schwartz

Faculty Contact:

Joyce Averett

Erin Craig

Debbie Dorrough

Myra Kargbo

Maire Morinec

Glenn Burgess

Vitalis Ememmuo

Elizabeth Freed

Marivic Macalino

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Nursing

Registered Nursing

Associate in Science Degree

Program Description

The Registered Nursing Program at Solano Community College is a 2-year Associate Degree Program fully approved by the CA Board of Registered Nursing and is subject to its regulations regarding the education and training of nurses. Successful completion of the program qualifies the student to apply to the National Council Licensing Examination (NCLEX-RN) to become a Registered Nurse. The practice of nursing requires knowledge of the biological, behavioral, and physical sciences, as well as knowledge of, and the ability to speak, to read, and to write the English language proficiently. This program follows the policy of non-discrimination set forth by the Governing Board of Solano Community College.

The Associate in Science Degree is awarded upon successful completion of the major and general education requirements. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Registered Nursing Associate Degree will be able to:

1. Synthesize principles of the nursing process and critical thinking to assist individuals, families and communities to achieve positive adaptation to change in health or a peaceful death.
2. Integrate technology and evidence-based concepts of nursing practice across the health care continuum to ensure quality patient centered care.
3. Educate patients, families, and communities in health promotion behaviors that increase health and wellness and decrease disease and illness in populations and communities

Retention in Program:

1. Students are required to undergo criminal background checks and drug screens. The School of Health Sciences may be unable to place students in a clinical setting if they have a positive criminal background check or drug screen; therefore, the student may be dropped from the nursing program.
2. If a student's conduct poses potential harm to the well-being of clients or is disruptive to the classroom or lab environment, the student may be dropped from the nursing program.
3. If a student's physical or emotional health appears to be such that they cannot meet the objectives of the program in nursing, the student may be asked to drop the nursing program.
4. In order to remain in the program and to graduate, the student must maintain a minimum grade of C in the theory and the clinical portions of the nursing program. The student must maintain a median grade of 75% or higher for each course.
5. Maintain current CPR, TB screening, clear criminal background check and drug screen.

In accordance with state law, the California Board of Registered Nursing (BRN) may deny licensure to an individual for crimes substantially related to the practice of nursing. Upon acceptance to the nursing program, any student who has had a conviction related to sex crimes, drug crimes (including DUI) and crimes of violence may need to contact the BRN regarding his/her status.

REQUIRED COURSES

First Semester Courses (First Year) Units

NURS 071A Foundations of Nursing I*	6
NURS 071B Foundations of Nursing II*	6
NURS 071S Nursing Simulation Skills Lab I	2

Second Semester Courses (First Year) Units

NURS 072A Medical/Surgical I and Geriatrics*	5
NURS 072B Maternal/Neonatal Nursing*	5
NURS 072S Nursing Skills Lab II	2

Third Semester Courses (Second Year) Units

NURS 073 Issues and Leadership in Health Care Today..	2
NURS 073A Medical/Surgical II*	5
NURS 073B Psychiatric and Mental Health Nursing*	5
NURS 073S Nursing Simulation and Skills Lab III	1

Fourth Semester Courses (Second Year) Units

NURS 074A Medical/Surgical III*	6
NURS 074B Pediatric Nursing*	5
NURS 074S Nursing Simulation and Skills Lab IV	1

**Concurrent enrollment in corresponding Skills Lab required.*

Nursing

REQUIREMENTS FOR ADMISSION TO THE PROGRAM

1. Graduation from an accredited high school in the United States or successful completion of the General Education Development (GED) or California High School Proficiency Exam (CHSPE) per requirements of the Nurse Practice Act, Title 16, California Code of Regulations, Section 1412, prior to time of application.
 - Applicants with a high school diploma from a school outside the United States must have transcripts evaluated by a National Association of Credential Evaluation Service (NACES) approved independent agency.
 - Applicants who possess an Associate or Arts/ Associate of Science degree or higher from a regionally accredited college in the U.S. are exempt from the educational requirements stated above.
 - Applicants who have attended college outside the United States must have transcripts evaluated by a NACES approved independent agency, demonstrating equivalency to an AA/AS degree or higher from a U.S. regionally accredited college.
2. A Composite Score of 73% or greater. This is calculated using the applicant's College GPA, Core Biology GPA, English GPA and the applicant's Core Biology Repetitions (This includes grades of D or less and W's on the applicant's transcript).

3. Completion of Registered Nursing Program Prerequisites

REGISTERED NURSING PROGRAM PREREQUISITES

A minimum grade of C in the following pre-major and general education courses

BIO 004 Human Anatomy.....	4
BIO 005 Human Physiology	4
BIO 014 Principles of Microbiology	4
ENGL 001 College Composition.....	4
CDFS 070 Lifespan Human Development.....	3
NUTR 010 Nutrition.....	3
NURS 052 Pharmacology for Nursing.....	3
PSYC 001 Introduction to Psychology.....	3
One course from Critical Thinking	3-4
Critical Thinking: (select one course)	Units
COMM 001 Introduction to Public Speaking.....	3
COMM 002 Fundamentals of Persuasive Speaking.....	3
COMM 006 Argumentation and Debate	3
ENGL 002 Critical Thinking and Writing About Literature	4

Complete all general education requirements (SCC GE, IGETC, or CSU) or hold an Associates or Bachelors degree from a regionally accredited institution in the United States.

4. Students are required to take the "Test of Essential Academic Skills (TEAS)" developed by the Assessment Technologies Institute. A minimum passing composite score of 62% is required within the first two (2) attempts. Further information can be found on the www.atitesting.com website regarding TEAS preparation, registration and testing.
5. First-time applicants are strongly encouraged to meet with an SCC counselor before August of the application year to obtain a *Nursing Pre-Major and General Education Requirement Check Sheet* and document completion of all eligibility requirements. Call (707) 864-7101 or go online to schedule an appointment.

Nursing

APPLICATION / ACCEPTANCE TO THE PROGRAM

Currently the Registered Nursing Program admits applicants once per year. Applications are accepted online. Check the SCC Nursing website for specific details and deadlines. <http://www.solano.edu/health/disciplines.php#nursing>

The Registered Nursing Program at Solano Community College is impacted; there are more students who apply than can be accepted into the program. Selection is based on a randomized lottery selection process. Returning qualified applicants will have their name included into the appropriate pool for each time they apply to SCC's Registered Nursing program for three (3) consecutive years. If an applicant who has not been selected after 3 years applies a fourth time, they will automatically be offered a spot, as long as they still meet the requirements for entry. Only applicants who meet and complete the application criteria will be considered for admission. Meeting these requirements does not guarantee acceptance into the program. If a qualified applicant is not chosen, they may apply during the following application period.

Once accepted to the Nursing Program, students, at their own expense, must provide the following:

- Health History and Report of Medical Examination with required titers/inoculations.
- Background check and drug screening
- Current American Heart Association BLS for Healthcare Providers card.
- Compliance with specific healthcare partner requirements.

Students accepted for entry into the Nursing Program are required to attend a mandatory information meeting. Date, time, and location will be provided in the acceptance packet.

APPLICATION GUIDELINES

COMPLETE: All pre-major and General Education courses must be completed before submitting an SCC Registered Nursing Application. Transcripts with courses in progress at the time of application will be voided or not accepted. Please refer to the SCC nursing website for more information.

APPLY: Applications for admission to Solano Community College are submitted online via CCCApply.

- ✓ Applicants who have never attended SCC must submit a CCCApply application. Go to the SCC home page, www.solano.edu, and click on the yellow "APPLY NOW!" button
 - **Note:** Returning SCC students who did not attend last semester must complete a new CCCApply application to SCC before accessing the Registered Nursing Application.
- ✓ **STUDENT ID NUMBER:** After submitting a CCCApply application, allow 30 minutes for processing. An email will be sent to the email address provided in the application and it will include the applicant's SCC ID number, username and password for the applicant's MySolano account. An SCC email address will then be available; this address must be used for all correspondence and when applying to the Registered Nursing program itself.
 - When completing a CCCApply application to Solano, if an applicant already has an SCC ID number, the system will re-activate the same ID number. After this step, the applicant can complete the online Registered Nursing application.
- ✓ **MYSOLANO EMAIL ACCOUNT:** All correspondence regarding SCC application status will be sent to the email address provided in the CCCApply application. The student's MySolano student email address is required when establishing the Registered Nursing application account online. Students must use the MySolano email address for all communications going forward and should check frequently for important messages from the College and/or the program.

Nursing

COUNSELING SERVICES FOR FIRST-TIME NURSING APPLICANTS

An appointment with an SCC Counselor is strongly encouraged to obtain and complete a *Nursing Pre-Major and General Education Requirement Check Sheet* to document completion of all eligibility requirements. This check sheet is especially important when coursework by the applicant has not been completed at SCC. A copy of this document can be found at <http://www.solano.edu/health/disciplines.php#nursing>

NOTE: If the applicant has earned an Associates or Bachelors degree from a regionally accredited institution in the US or Canada, their General Education (GE) requirements are complete. A Counselor can help determine if they have met all the requirements.

✓ **COUNSELING APPOINTMENT:** To book an appointment use the online booking system at http://www.solano.edu/counseling/counseling_locations.php or call (707) 864-7101 to schedule an appointment with a Counselor. If the applicant has 15 or more units from other colleges, they will need to schedule a one-hour appointment with an SCC Counselor. During the appointment, the Counselor will work with the applicant to review the *Nursing Pre-Major and General Education Requirement Check Sheet*, petitioning of course equivalencies and degree completion requirements. The applicant must bring all transcripts from other colleges to this appointment, if they have not been submitted previously. While this appointment is not required, it is strongly encouraged so that the applicant can be confident they have met the requirements prior to application.

✓ **GENERAL COUNSELING:** For general counseling questions, go to www.solano.edu/counseling/

APPLY TO THE REGISTERED NURSING PROGRAM AT SOLANO COMMUNITY COLLEGE

- ✓ Complete the Nursing Application available on the Registered Nursing website during an open application period (September 1 through September 30 every year for a Fall start the following academic year).
 - Applicants must have SCC ID number, *Nursing Pre-Major and General Education Requirement Check Sheet* – signed and dated by an SCC Counselor if met with one, MySolano email address, and proof of high school graduation.
 - All required information for admission to the Registered Nursing program **MUST** be uploaded to the application.

ONCE THE APPLICATION IS SUBMITTED

- ✓ **EMAIL ACCOUNT:** All correspondence regarding the application status will be sent to the applicant's MySolano email address. It is required that the applicant's MySolano student email address be used when establishing an application account online and for all communications going forward. Applicants should check their MySolano email frequently for important messages from the College and/or the Program. Applicants will not receive phone verification regarding their status. Send any changes of address to registered.nurse@solano.edu and update online in MySolano.
- ✓ **PERMANENT ADDRESS:** The Program may send letters via U.S. Postal Service to the applicant's permanent address as provided in their application. Send any changes of address to registered.nurse@solano.edu and update online in MySolano.
- ✓ New applications will be evaluated following the close of the open application period. Applicants should expect to receive notification of their status in February.

Nursing

LVN to RN Program

The policies and procedures for the Solano Community College LVN to RN program are currently under revision. Interested individuals can obtain more information and future updates at:

<http://www.solano.edu/health/disciplines#mobility>

LVN to RN Thirty-Unit Option

Thirty-Unit Option

By choosing this option students would:

- complete a total of 29-30 units.
- not be a graduate of an Associate Degree Program.
- not be a graduate of the Solano Community College Nursing Program and may not wear the school pin.
- be eligible for licensure in California and may not be eligible for licensure in other states.

Prerequisites

- BIO 004 - Human Anatomy (5 units)
- BIO 005 - Introductory Physiology (5 units)
- BIO 014 - Principles of Microbiology (4 units)

Additional information will be posted on the Program website:

<http://www.solano.edu/health/disciplines#mobility>

Please note: LVNs wishing to become RNs are also eligible and encouraged to apply to the generic RN Program or A.D.N. track where matriculation would begin during the 1st semester with A.D.N. cohort at Solano Community College. Interested individuals can obtain more information about the A.D.N. program at:

<http://www.solano.edu/health/disciplines#nursing>

Certified Nursing Assistant

Job-Direct Low Unit Certificate

Required Courses	Units
NURS 103 Certified Nursing Assistant	6.5
Total Units	6.5

Nutrition Department

DEGREES

Nutrition (AS-T)

COURSES

[NUTR \(Nutrition\)](#)

CONTACT INFORMATION:

School of Health Sciences

Building: 800 Room 805B

Phone Number: (707) 864-7108

Fax Number: (707) 646-2062

Dean: Sheila Hudson

Administrative Assistant: Janet Schwartz

Faculty Contact:

Ingeborg Bourdon

Robin Sytsma



P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Guided Pathways: NUTRITION (AS-T)

Associate in Science for Transfer | GE Pattern: IGETC | Program Total Units: 60 - 64

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Dietitian • Nutritionist • Animal Scientist • Fitness and Wellness

What your potential plan could look like...

1 First Semester Total Recommended Units: 14

- ENGL001 4 units
College Composition (IGETC 1A)
- LR 010 1 unit
Introduction to Library Research
- MATH 011 4 units
Statistics (IGETC 2B)
- NUTR 010 3 units
Nutrition

2 Second Semester Total Recommended Units: 15

- ENGL 002 or 004 4 units
(IGETC 1B)
- ART 012, CINA 011, MUSC 013, 3 units
or THEA 013 (IGETC 3A/Cross-Cultural)
- CHEM 001 5 units
General Chemistry (IGETC 5A/C)
- PSYC 001 3 units
Introduction to Psychology (IGETC 4)

3 Third Semester Total Recommended Units: 12-16

- ART 003A or ART 003B 5 units
Art of Asia or Art of Africa, Oceania, and Americas
- IGETC 3A or 3B 3 units
- UC Transferable Elective 1 - 3 units
Suggested: Kinesiology
- ASL 001, FREN 001, or 3 - 5 units
SPAN 001, or UC Transferable Elective *

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

4 Fourth Semester Total Recommended Units: 13

- BIO 014 4 units
Microbiology
- PLSC 001 or 005 3 units
(IGETC 4/American Institutions)
- ANTH 002, PSYC 002, or SOC 001 3 units
(IGETC 4)
- UC Transferable Elective 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer) Total Recommended Units: 6

- COMM 001, 002, or 006 3 units
(IGETC 1C)
- HIST 017, 018, 028, 029, or 037 3 unit
(IGETC 3B/American Institutions)

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

Nutrition

Associate in Science in Nutrition for Transfer (A.S.-T)

Program Description

This program is designed to meet the general education requirements at California State Universities and prepare students for a Bachelor of Science degree in Nutrition and Food Science. The program will prepare individuals to integrate and apply the principles of the food and nutrition sciences, human behavior, and the biomedical sciences to design and manage effective nutrition programs. Students will learn how to utilize food for human growth and development in a variety of settings including health care organizations, food service operations, business and industry (product development, marketing, consulting), education and research, health promotion and private practice counseling.

The Associate in Science in Nutrition for Transfer is designed to prepare students for transfer into the CSU system to complete a Bachelor of Science in Nutrition. Students who earn the Associate in Science in Nutrition for Transfer will receive guaranteed priority admission to the CSU system, but not to a particular campus or major. Once admitted the student will only be required to complete 60 additional upper-division units to qualify for a BA degree.

To earn the Associate in Science in Nutrition for Transfer, students must:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

ADTs also require that students earn a minimum grade of C in all courses required for the major or area of emphasis.

Program Outcomes

Upon completion of the A.S.-T in Nutrition students will be able to:

1. Explain the principles of nutrition and its effect on health and wellness.
2. Analyze a diet for adequacy, balance, and moderation.
3. Demonstrate an understanding of the relationships between chemistry, biology and nutrition

REQUIRED COURSES	Units
BIO 014 Principles of Microbiology	4
NUTR 010 Nutrition	3
PSYC 001 Introduction to Psychology	3
One or Two courses from List A.....	5-10
One or Two courses from List B**	4-10
One course from List C	3
Required Major Total Units.....	27-28

List A: (select one to two courses).....	Units
CHEM 001 General Chemistry I	5
or	
CHEM 001 General Chemistry I	5
and	
CHEM 002 General Chemistry II	5

List B: (select one or two courses**).	Units
BIO 004 Human Anatomy	5
or	
BIO 005 Human Physiology	5
CHEM 002 General Chemistry II	5
CHEM 003 Organic Chemistry	5
MATH 011 Elementary Statistics.....	4

List C:	Units
ANTH 002 Cultural Anthropology	3
PSYC 002 Biological Psychology	3
SOC 001 Introduction to Sociology.....	3

**select one course if CHEM 001 + CHEM 002 is completed in List A or select two courses if only CHEM 001 is completed in List A.

Occupational Education Department

JOB-DIRECT LOW UNIT CERTIFICATE

Soft Skills for Technicians

COURSES

OCED (Occupational Education)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact:

Debra Berrett



P.A.C.E. - BUSINESS AND MANAGEMENT - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on other's instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

Occupational Education

Soft Skills for Technicians

Job-Direct Low Unit Certificate

REQUIRED COURSES	Units
OCED 070 Occupational Soft Skills	1.5
OCED 071 Occupational Portfolio Development	1.5
IT 140 Industrial Materials.....	3
IT 151 Vocational Mathematics	3
3 units from List A	3
Total Units	12

List A: (select 3 units)	Units
A TEC 070 Automotive Fundamentals	3
CIS 001 Introduction to Computer Science	3
CIS 050 Microcomputer Applications	3
DRFT 079 Blueprint Reading.....	3
IT 050 Alternative Energy Technologies.....	3
IT 101 Introduction to Mechatronics.....	3
IT 110 Modern Welding.....	3
OCED 090 Occupational Work Experience	3
OCED 091 General Work Experience	3

Philosophy Department

DEGREES

The philosophy program consists of one comprehensive survey course augmented by special courses in critical thinking, ethics, political philosophy, and religion. All constitute a basic and well-rounded introduction to philosophy. Each course presumes no prior study of philosophy. The courses do not lead to a certificate, degree or transfer agreement in themselves. However, these courses may apply to other programs and may also be used toward lower division general education.

COURSES

[PHIL \(Philosophy\)](#)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer



Photography Department

DEGREES

Professional Photography (AA)

CERTIFICATES OF ACHIEVEMENT

Photo Illustration

Professional Photography

COURSES

PHOT (Photography)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer

Faculty Contact: Sarah Barsness



P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Photography

Photography, Professional

Certificate of Achievement and Associate in Arts

Program Description

Pre-employment training in professional photography is designed to prepare students for self-employment and employment in the private and public sectors and covers a broad spectrum of photographic fields, e.g., advertising illustration, industrial, portraiture, medical, commercial, photojournalism, and landscape.

The Certificate of Achievement can be obtained upon completion of the 24-unit major. The Associate in Arts Degree can be obtained by completing the 24-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Photography, Professional Certificate of Achievement/Associate Degree will be able to:

1. Demonstrate full knowledge of the technical aspects of photography, including camera operations, exposure, lighting, and post-production, including software applications and printing.
2. Integrate conceptual elements with aesthetic and technical skills to create cohesive and memorable photographs.
3. Conceive and produce a coherent portfolio of original work that meets department and professional industry standards.
4. Demonstrate an understanding of industry trends and professional practices related to a career in photography.

REQUIRED COURSES Units

PHOT 029 Introduction to Photography	3
PHOT 071 Digital Imaging	3
PHOT 151 Professional Photography: Introduction	3
PHOT 156 Portfolio Development	3
6 units from List A.....	6
6 units from List B	6

Required Major Total Units24

List A: (select 6 units) Units

PHOT 152 Professional Photography: Portraiture	3
PHOT 153 Professional Photography: Product and Advertising	3
PHOT 154 Professional Photography: Interior & Exterior	3

List B (select 6 units) Units

PHOT 030 Beginning Film Photography	3
PHOT 031 Intermediate Photography	3
PHOT 035 Art of Photography	3
PHOT 040 Alternative Photography.....	3
PHOT 045 DSLR Videography.....	3
PHOT 056 Photojournalism & Documentary Photography	3
PHOT 161 Workshop: Camera Intensive.....	1
PHOT 162 Workshop: Portraiture and Studio Lighting ...	1
PHOT 163 Landscape and Nature Photography	1

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Professional Photography."

Photography

Photo Illustration

Certificate of Achievement

Program Description

Students learn a range of photographic, design and graphic design skills, including camera operation, light control, principles of color and composition for 2 dimensional work, and a range of industry standard software programs and applications. Professional practices and career paths are explored and all students complete a portfolio of work to prepare them for entry into the job market.

Career Opportunities

Social media content manager, web development and management, retouching, photo editor, advertising and promotional designer.

A Certificate of Achievement can be obtained upon completion of the 24-unit major. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Photography, Professional Certificate of Achievement/Associate Degree will be able to:

1. Professional level proficiency in utilizing photography and graphic design to create expressive original works, appropriate for use in various applications including fashion and editorial, advertising and fine art.
2. Working knowledge of current graphic design and photographic software programs, including specific understanding of the strengths and appropriate applications of each program and an ability to work between the programs for strong outcomes.
3. Complete a professional portfolio and accompanying promotional materials appropriate for use in seeking employment in areas of design and media, such as advertising, editorial and fashion production, fine art and social media.

REQUIRED COURSES	Units
ART 007 Design Color	3
ART 054A Graphic Design I	3
ART 046 Illustration I	3
PHOT 029 Introduction to Photography	3
PHOT 032 Digital Imaging	3
PHOT 158 Photo Illustration	3
One course from Photo Electives	3
One course from Graphic Design and Art Electives	3
Required Major Total Units	24

Photo Electives: (select one course)	Units
PHOT 031 Intermediate Photography	3
PHOT 045 DSLR Videography	3

Graphic Design and Art Electives	Units
ART 045B Graphic Design II	3
ART 045C Typography.....	3
ART 046C Illustration II	3

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Photo Illustration."

Physical Science Department

DEGREES

Physical Science (AS)

COURSES

PHSC (Physical Science)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell



P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Physical Science

Physical Science

Associate in Science

Program Description

This program provides students the opportunity to investigate methods of scientific inquiry, and to gain scientific knowledge, through specialization in one or more Physical Science disciplines that align with their personal interests, such as Physics, Chemistry, Astronomy, and Geology. Crucially, students taking this degree will also gain an understanding of the factors that affect the Earth's climate, and will thereby develop a deep understanding of the important issue of Climate Change, which will allow them to be knowledgeable global citizens. Students will develop critical thinking skills, learn to communicate effectively in writing, and acquire an understanding of major scientific concepts. Through course options, students will employ methods of scientific inquiry to understand the world around them. Completion of the degree requirements will prepare students with the skills and resources needed to facilitate academic and career decisions.

The Associate in Science Degree can be obtained by completing the 34-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for the major must be completed with a minimum grade of C or a grade of P if the course is taken on a Pass/No Pass basis.

Program Outcomes

1. Describe physical phenomena in multiple forms (verbal, pictorial, graphical, and mathematical).
2. Qualitatively and quantitatively predict, analyze and/or explain the behavior of physical systems using fundamental physical principles and models.
3. Develop and implement a plan of collecting and/or accessing experimental data, and performing data analysis

REQUIRED COURSES Units

CIS 001 Introduction to Computer Science	3
MATH 011 Elementary Statistics	4
PHSC 013 Weather and Climate	3
PHSC 014 Atmospheric Science Laboratory	1
Option 1 or 2	10
13 Units from List A	13
Required Major Total Units	34

Option 1 Units

CHEM 001 General Chemistry I	5
CHEM 002 General Chemistry II	5

Option 2 Units

PHYS 002 General Physics (Non-calculus)	5
PHYS 004 General Physics (Non-calculus)	5

List A (select 13 units) Units

Any course(s) not used from Option 1 or 2	
ASTR 010 General Astronomy	3
ASTR 020 Astronomy Laboratory	1
ASTR 040 Stars, Galaxies, and Cosmology	3
ASTR 045 Introduction to Astrobiology and the Search for Life in the Universe	3
ASTR 050 Astronomical Optics	1
CHEM 010 Intermediate Chemistry	4
GEOL 001 Physical Geology	3
GEOL 002 Geology Laboratory	1
GEOL 006 Earth Science	3
GEOL 006L Earth Science Laboratory	1
PHSC 012 Introduction to Principles of Physical Science	4
PHSC 015 Global Climate Change	3
PHSC 016 Natural Disasters	3

Physics Department

DEGREES

Physics (AS-T)
Physics (AS)

COURSES

PHYS (Physics)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

Faculty Contact:

Zach Hannan

Melanie Lutz



P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Guided Pathways:

PHYSICS AS-T

Associate in Science for Transfer | GE Pattern: IGETC | Program Total Units: 63

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Physics Teacher • Physicist • Nanosystems Engineer •
Atmospheric, Earth, Marine, or Space Scientist

What your potential plan could look like...

1

First Semester

Total Recommended Units: 16

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- IGETC 4 3 units
- ART 012, CINA 011, MUSC 013, or THEA 013 (IGETC 3A/Cross-Cultural) 3 units
- MATH 020 Analytic Geometry and Calculus I (IGETC 2) 5 units

3

Third Semester

Total Recommended Units: 13

- COMM 006 Argumentation and Debate 5 units
- PHYS 007 Physics for Science & Engineering (Offered In Fall Only) 5 units
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units

Square, darker color: Required Courses/
Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2

Second Semester

Total Recommended Units: 14

- ENGL 002 or 004 (IGETC 1B) 4 units
- MATH 021 Analytic Geometry and Calculus II 5 units
- PHYS 006 Physics for Science and Engineering (IGETC 5A/5C) 5 units

4

Fourth Semester

Total Recommended Units: 12

- PHYS 008 Physics for Science & Engineering (Offered In Spring Only) 5 units
- IGETC AREA 3A or 3B 3 units
- IGETC AREA 5B 3 units
- IGETC AREA 4 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer)

Total Recommended Units: 6

- COMM 001, 002, or 006 (IGETC 1C) 3 units
- HIST 017, 018, 028, 029, or 037 (CSU GE C2/American Institutions) 3 units

Physics

Associate in Science in Physics for Transfer (ADT: A.S.-T)

Program Description

The focus of this program is on developing an understanding of and appreciation for the basic laws of our physical universe. This is done largely through the development of conceptual understanding, problem-solving skills, and laboratory investigations. The PHYS 006, 007, 008 sequence is a three-semester offering in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. PHYS 006 is a study of mechanics, gravitation, vibration and fluids. In PHYS 007, students will cover the topics of electricity, magnetism, wave motion, and sound. In PHYS 008, students will cover heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level. Experiments relating to the topics covered will be performed.

The Associate in Science in Physics for Transfer, will prepare students for a baccalaureate degree in physics. It consists of the courses necessary for beginning physics students to be able to succeed in the upper division physics courses that they will encounter in the CSU system, or any institution (such as the UC system) that grants an undergraduate physics degree. Students who earn the Associate in Science will receive guaranteed priority admission to the CSU system, but not to a particular campus or major. Once admitted the student will only be required to complete 60 additional upper-division units to qualify for a bachelor's degree.

To earn the Associate in Science in Physics for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Science in Physics for Transfer will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills related to the study of Physics.
2. Carry out experiments and critically assess data. Students will learn the role of hypothesis, measurement, and analysis in the development of scientific theory, as evidenced by laboratory reports.
3. Write a professional scientific laboratory report.

REQUIRED COURSES	Units
PHYS 006 Physics for Science and Engineering.....	5
PHYS 007 Physics for Science and Engineering.....	5
PHYS 008 Physics for Science and Engineering.....	5
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
MATH 022 Analytic Geometry and Calculus III	4
Required Major Total Units.....	29

Physics

Physics

Associate in Science

Program Description

The focus of this program is on developing an understanding of and appreciation for the basic laws of our physical universe. This is done largely through the development of conceptual understanding, problem solving skills, and laboratory investigations.

The Associate in Science can be obtained by completing the 35-39-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Physics Associate in Science will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills related to the study of Physics.
2. Carry out experiments and critically assess data. Students will learn the role of hypothesis, measurement, and analysis in the development of scientific theory, as evidenced by laboratory reports.
3. Write a professional scientific laboratory report.

REQUIRED COURSES Units

PHYS 006 Physics for Science and Engineering	5
PHYS 007 Physics for Science and Engineering	5
PHYS 008 Physics for Science and Engineering	5
MATH 020 Analytic Geometry and Calculus I	5
MATH 021 Analytic Geometry and Calculus II	5
MATH 023 Differential Equations	4
One course from Biological Science	3-5
One course from Physical Science	3-5

Required Major Total Units35-39

Biological Science (select one course) Units

BIO 002 Principles of Cell and Molecular Biology	5
BIO 003 Evolution, Ecology & Biodiversity	5
BIO 005 Human Physiology	5
BIO 012 Environmental Science	3
BIO 014 Principles of Microbiology	4
BIO 015 Introduction to Biology	4
BIO 016 Introduction to Human Biology	3
BIO 018 Biology of Sex	3

Physical Science (select one course) Units

ASTR 010 General Astronomy	3
ASTR 020 Astronomy Laboratory	1
ASTR 030 The Solar System	3
ASTR 040 Stars, Galaxies, and Cosmology	3
CHEM 001 General Chemistry I	5
CHEM 002 General Chemistry II	5
CHEM 003 Organic Chemistry I	5
CHEM 004 Organic Chemistry II	5
CHEM 010 Intermediate Chemistry	4
CHEM 011 Basic Organic Chemistry and Biochemistry	4
GEOG 001 Physical Geography	3
GEOG 001L Physical Geography Laboratory	1
GEOL 001 Physical Geology	3
GEOL 002 Geology Laboratory	1
GEOL 005 Geology of California	3
PHSC 012 Introduction to the Principles of Physical Science	4

Political Science Department

DEGREES

Political Science (AA-T)

COURSES

PLSC (Political Science)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact:

Thomas Bundenthal

Joel Powell



P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

Guided Pathways:

POLITICAL SCIENCE (AA-T)

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 62 - 65.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Political Scientist • Political Science Teacher • Pre-Law/Law Pathway

What your potential plan could look like...

1

First Semester

Total Recommended Units: 15

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 Elementary Statistics (IGETC 2B) 4 units
- HIST 017, 018, 028, 029, or 037 (IGETC 3B/American Institutions) 3 units
- UC Transferable Elective Suggested: COUN 007 3 unit

3

Third Semester

Total Recommended Units: 13-16.5

- PLSC 002 Intro to Comparative Politics (IGETC 4) 3 units
- PLSC 004 Introduction to International Politics 3 units
- IGETC 5B/5C Suggested BIO 012 & 012L, BIO 015, or BIO 016 & 016L 4-4.5 units
- ASL 001, FREN 001, or SPAN 001, or UC Transferable Elective * 3 - 5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color: Required Courses/Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2

Second Semester

Total Recommended Units: 13

- ENGL 004 Critical Thinking Comp (IGETC 1B/CCPLS) 4 units
- PLSC 001 Intro to American Government & Politics (IGETC 4) 3 units
- ART 012, CINA 011, MUSC 013, or THEA 013 (IGETC 3A/Cross-Cultural) 3 units
- IGETC 1C Suggested: COMM 006 3 units

4

Fourth Semester

Total Recommended Units: 15

- IR 001 or PLSC 003 Global Interdependence 3 units
- PLSC 006, 016, or 019 3 units
- IGETC 5A Suggested: ASTR, GEOL, GEOG 3 units
- IGETC 3A or 3B 3 units
- IGETC 4 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer)

Total Recommended Units: 6

- UC Transferable Elective 3 units
- UC Transferable Elective 3 units

Political Science

Associate in Arts in Political Science for Transfer (ADT: A.A.-T)

Program Description

This program examines the theory and practice of government and the powerful personalities that affect governmental decisions. This interplay of individual citizens, public leaders, elections, and world events make political inquiry relevant today. The program provides a broad base for the analysis of how government resolves social conflict within the United States and around the world.

Upon completion of the Associate in Arts in Political Science for Transfer, students will be eligible to transfer to a CSU undergraduate Political Science program. The Associate in Arts in Political Science for Transfer Degree will facilitate successful transfer to the CSU system, Students who earn the A.A.-T will receive guaranteed priority admission to the CSU system, but not to a particular campus or major

To earn the Associate in Arts in Political Science for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Political Science for Transfer will be able to:

1. Develop theory and content knowledge of political science.
2. Comprehend, analyze, and evaluate academic literature in political science.
3. Create original work and/or research in political science.

REQUIRED COURSESUnits

PLSC 001 Introduction to American Government and Politics	3
Three courses from List A.....	9-10
Two courses from List B.....	6-7
Required Major Total Units	18-20

List A: (select three courses) Units

PLSC 002 Introduction to Comparative Government	3
PLSC 003 Introduction to International Politics	3
PLSC 006 Basic Concepts in Political Thought.....	3
MATH 011 Elementary Statistics.....	4
PLSC 004 Introduction to Political Science	3

List B: (select two courses)..... Units

Any List A course not used	
PLSC 005 Constitutional Rights in a Multicultural Society	3
PLSC 007 International Relations.....	3
PLSC 016 The American Legal System	3
PLSC 019 Human Rights and Sexual Orientation	3

Psychology Department

DEGREES

Psychology (AA-T)
Psychology (AA)

COURSES

PSYC (Psychology)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact:

Sabine Bolz

Saki Cabrera

Mary Gotch

LaNae Jaimez

P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Guided Pathways:

PSYCHOLOGY AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 62 - 64

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Clinical Psychologist • School Psychologist • Industrial-Organizational Psychologist • Neuropsychologist and Clinical Neuropsychologist • Psychology Teacher • Rehabilitation Counselor

What your potential plan could look like...

1 First Semester Total Recommended Units: 14

- ENGL 001** 4 units
College Composition (IGETC 1A)
- LR 010** 1 unit
Introduction to Library Research
- PSYC 001** Intro to Psychology (IGETC 4) 3 units
- COMM 001, 002, or 006** 3 units
(IGETC 1C)
- UC Transferable Elective** 3 unit
Suggested: HS 001 Intro to Human Services

3 Third Semester Total Recommended Units: 15-17

- ASL 001, FREN 001, or SPAN 001*** 3 - 5 units
or UC Transferable Elective
- PSYC 004** 3 units
Research Methods in Behavioral Science
- PSYC LIST B of ADT** 3 units
- IGETC 5A** 3 units
Suggested: ASTR, GEOL, GEOG
- UC Transferable Elective** 3 unit

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color:
Required Courses/
Courses in Discipline

Rounded, lighter color:
GE Courses/Categories

2 Second Semester Total Recommended Units: 14

- ENGL 002 or 004** 4 units
(IGETC 1B)
- MATH 011** 4 units
Elementary Statistics (IGETC 2B)
- PSYC 002** 3 units
Biological Psychology (IGETC 4)
- ART 012, CINA 011, MUSC 013, or THEA 013** 3 units
(IGETC 3A/Cross-Cultural)

4 Fourth Semester Total Recommended Units: 13

- BIO 015 (L), or BIO 016 and BIO 016L** 4 units
(IGETC 5B/5C)
- UC Transferable Elective** 3 units
Suggested: SOC 001 or ANTH 002
- PLSC 001 or 005** 3 units
(IGETC 4/American Institutions)
- IGETC 3A or 3B** 3 units

Courses Below May Be Taken Any Time
(Fall, Spring or Summer)

Total Recommended Units: 6

- HIST 017, 018, 028, 029, or 037** 3 units
(IGETC 3B/American Institutions)
- UC Transferable Elective** 3 unit

Psychology

Associate in Arts in Psychology for Transfer (ADT: A.A.-T)

Program Description

This program provides a broad overview of psychology as a science of human behavior and mental processes. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding major theories, methods, and research in psychology. In addition, personal, social, and organizational areas are explored.

The Associate in Arts for Transfer is especially appropriate for students who plan to complete a bachelor's degree in Psychology at a CSU campus. Students completing an A.A.-T degree are guaranteed priority admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the A.A.-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree also prepares students for psychology degree programs at other four-year institutions, but does not come with the same guarantees. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

To earn the Associate in Arts in Psychology for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Psychology for Transfer will be able to:

1. Demonstrate an understanding of the major theories in psychology.
2. Produce an APA formatted research proposal.
3. Demonstrate an ability to apply psychological concepts to everyday life.

REQUIRED COURSES Units

PSYC 001 Introduction to Psychology	3
PSYC 002 Biological Psychology	3
MATH 011 Elementary Statistics.....	4
PSYC 004 Research Methods in Behavioral Science	3
One course from List A	3-4
One course from List B	3

List A: (select one course) Units

BIO 015 Introduction to Biology	4
BIO 016 Introduction to Human Biology	3

List B: (select one course) Units

PSYC 005 Abnormal Psychology	3
PSYC 006 Developmental Psychology	3
PSYC 007 Cross-Cultural Psychology	3
PSYC 012 Introduction to Gender	3
PSYC 020 Personal and Social Behavior	3
PSYC 030 Introduction to Social Psychology	3
PSYC 034 Human Sexual Behavior	3
PSYC 040 Drugs, Society & Behavior.....	3

Psychology

Psychology

Associate in Arts

Program Description

This program provides a broad overview of psychology as a science of human behavior and mental processes. The program emphasizes critical thinking, skeptical inquiry and the scientific approach to understanding major theories, methods, and research in psychology. In addition, personal, social, and organizational areas are explored.

The Associate in Arts can be obtained by completing the 22-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Psychology Associate will be able to:

1. Demonstrate an understanding of the major theories in psychology.
2. Produce an APA formatted research proposal.
3. Demonstrate an ability to apply psychological concepts to everyday life.

REQUIRED COURSES	Units
PSYC 001 Introduction to Psychology	3
PSYC 002 Biological Psychology	3
MATH 011 Elementary Statistics	4
PSYC 004 Research Methods in Behavioral Science	3
Three courses from List A	9
Required Major Total Units	22

List A: (select three courses)	Units
PSYC 005 Abnormal Psychology	3
PSYC 006 Developmental Psychology	3
PSYC 007 Cross-Cultural Psychology	3
PSYC 012 Introduction to Gender	3
PSYC 020 Personal and Social Behavior	3
PSYC 030 Introduction to Social Psychology	3
PSYC 034 Human Sexual Behavior	3
PSYC 040 Drugs, Society, & Behavior	3
HS 001 Introduction to Human Services	3

Real Estate Department

DEGREES

Real Estate (AS)

CERTIFICATES OF ACHIEVEMENT

Real Estate

COURSES

[RE \(Real Estate\)](#)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Adrienne Cary



P.A.C.E. - BUSINESS AND MANAGEMENT - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to influence, lead or manage to reach your personal or organizational goals and/or economic gain?
- ...enjoys facts, numbers, and details?
- ...likes to carry out tasks in detail or to follow through on other's instructions?
- ...is interested in learning about how to turn your ideas into a sustainable business?

Real Estate

Real Estate

Certificate of Achievement and Associate in Science

Program Description

This program offers courses needed to qualify for the state of California salesperson license examination as well as for the broker's examination. A full range of real estate courses is offered including real estate finance, appraisals, etc. The courses are taught by qualified real estate professionals.

The Certificate of Achievement can be obtained by completing the 24-25-unit major. The Associate in Science can be obtained by completing the 24-25-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major have been approved by the California Department of Real Estate and must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Real Estate Certificate of Achievement/Associate in Science will be able to:

1. Analyze common real estate problems, apply appropriate solutions, and interpret outcomes.
2. Meet career preparation goals, as well as prepare for a state licensing exam.
3. Explain the process for making home purchase or sale decisions and completing real estate transactions.
4. Demonstrate mastery of program-specific concepts and skills (e.g. understand theory and application in real estate finance, investments, property management and financial institutions).

REQUIRED COURSES	Units
RE 164 Real Estate Principles	3
RE 172 Real Estate Practice	3
RE 173 Legal Aspects of Real Estate	3
RE 174 Real Estate Finance	3
RE 175 Principles of Appraisal	3
One course from List A	3
Two courses from List B	6-7
Required Major Total Units	24-25

List A: (select one course)	Units
RE 171 Real Estate Economics	3
ECON 001 Principles of Economics (Macroeconomics)	3
ECON 002 Principles of Economics (Microeconomics)	3

List B: (select two courses)	Units
ACCT 001 Principles of Accounting - Financial	4
BUS 018 Legal Environment of Business	3
RE 176 Advanced Residential Appraisal Practice	3
RE 177 Income Property Appraisal and Analysis	3

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Real Estate."

Science, General

DEGREES

Science, General (AA)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell



P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Science, General

Science, General

Associate in Arts

Program Description

This program is designed to provide students with a basic science background, preparing them to move into a curriculum at a four-year institution leading to a degree in such fields as chemistry, biology, physics, geology, or health sciences. This program is a path for immediate entry into science-based technology careers.

The Associate in Arts can be obtained by completing a minimum of 18 units in the major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Science, General Associate in Arts will be able to:

1. Demonstrate analytical and/or conceptual problem solving skills.
2. Carry out experiments and critically assess their data.
3. Understand the role of hypotheses, measurement and analysis in the development of scientific theory as evidence by laboratory reports.
4. Write a laboratory report or give an oral presentation.

REQUIRED COURSES Units

12 Units of Laboratory Courses**

Minimum one course from Biological Science

Minimum one course from Physical Science

Required Major Total Units..... Minimum of 18

Biological Science

BIO 002** Principles of Cell and Molecular Biology	5
BIO 003** Evolution, Ecology, & Biodiversity	5
BIO 004** Human Anatomy	5
BIO 005** Introductory Physiology	5
BIO 012 Environmental Science	3
BIO 012L** Environmental Science Laboratory	1.5
BIO 014* Principles of Microbiology	4
BIO 015** Introduction to Biology	4
BIO 016 Introduction to Human Biology	3
BIO 016L** Human Biology Laboratory	1.5
BIO 018 Biology of Sex	3
BIO 019** Marine Biology	4
ANTH 001 Physical Anthropology	3

Physical Science

ASTR 010 General Astronomy	3
ASTR 020** Astronomy Laboratory	1
ASTR 030 The Solar System	3
ASTR 040 Stars, Galaxies, and Cosmology	3
CHEM 001** General Chemistry	5
CHEM 002** General Chemistry	5
CHEM 003** Organic Chemistry I	5
CHEM 004** Organic Chemistry II	5
CHEM 010** Intermediate Chemistry	4
CHEM 011** Basic Organic Chemistry and Biochemistry	4
CHEM 051 Chemistry for the Health Sciences	5
GEOG 001 Physical Geography	3
GEOG 001L** Physical Geography Laboratory	1
GEOL 001 Physical Geology	3
GEOL 002** Geology Laboratory	1
GEOL 005 Geology of California	3
PHSC 012** Introduction to Principles of Physical Science	4
PHYS 002** General Physics (Non-calculus)	5
PHYS 004** General Physics (Non-calculus)	5
PHYS 006** Physics for Science and Engineering	5
PHYS 007** Physics for Science and Engineering	5
PHYS 008** Physics for Science and Engineering	5
PHYS 010 Descriptive Physics	3

Social Justice Studies Department

DEGREES

Social Justice Studies (AA-T)
Ethnic Studies (AA)

COURSES

SJS (Social Justice Studies)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary



P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

P.A.C.E. - HEALTH AND HUMAN SERVICES- A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to inform, enlighten, help, teach, counsel, or cure people?
- ...enjoys using your skills to serve people?
- ...Likes to work hands-on with objects, machines, and tools and/or use your physical or athletic abilities?
- ...is interested in working in a medical environment?

Guided Pathways:

SOCIAL JUSTICE STUDIES AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 60-64.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Area, Gender, Ethnic, or Cultural Studies Teacher • Non-profit or Public Administrator • Human Services or Social Services Provider • Counselor • Law or Public Policy • Human Resources Specialist

What your potential plan could look like...

1

First Semester

Total Recommended Units: 15

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 011 Statistics (IGETC 2B) 4 units
- SJS 001 Intro to Social Justice Studies (IGETC 4) 3 units
- ART 012, CINA 011, MUSC 013, or ENGL 036 (IGETC 3A or 3B) 3 units

3

Third Semester

Total Recommended Units: 13-15.5

- PSYC 012 Psychology of Gender (IGETC 4) 3 units
- PLSC 001 or 005 Psychology of Gender (IGETC 4/American Institutions) 3 units
- BIO 015 or BIO 016 & 016L (IGETC 5B/5C) 4 - 4.5 units
- ASL 001, FREN 001, or SPAN 001, or UC Transferable Elective* 3 - 5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color: Required Courses/Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2

Second Semester

Total Recommended Units: 13

- ENGL 002 or 004 (IGETC 1B) 4 units
- SJS 002 Intro to Race and Ethnicity (IGETC 4/Cross-Cultural) 3 units
- HIST 017, 018, 028, 029, or 037 (IGETC 3B/American Institutions) 3 units
- COMM 001, 002, or 006 (IGETC 1C) 3 units

4

Fourth Semester

Total Recommended Units: 13-15

- IGETC 4 ANTH 002, COMM 012, PSYC 007, or PSYC 034 3 units
- IGETC 3A 3 units
- IGETC 5A Suggested: ASTR, GEOL, or GEOG 3 units
- UC Transferable Elective 3 units
- UC Transferable Elective Suggested: Kinesiology 1 - 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer)

Total Recommended Units: 6

- UC Transferable Elective 3 units
- IGETC 3A 3 units

Social Justice/Ethnic Studies

Associate in Arts in Social Justice Studies for Transfer (ADT: A.A.-T)

Program Description

The Associate in Arts in Social Justice Studies for Transfer prepares students to provide social leadership in creating greater equity and inclusion in the local community and in larger societal contexts. With a focus on Ethnic Studies, and Gender and Sexuality Studies, Social Justice Studies majors are given opportunities to critically examine the experiences of various communities in relation to issues of power and social inequality. The program's interdisciplinary coursework allows students exposure to a variety of theoretical frameworks including Psychology, English, Sociology, History, Art, Political Science, Communications and more, as well as the fundamentals of methodology needed for social inquiry. Critical thinking and problem solving are emphasized throughout the program, especially in the analysis of historical and current examples of social engagement and change. Social Justice Studies provides a strong academic preparation for upper division coursework, a range of career paths, and meaningful social awareness and public engagement over students' lifetimes.

The Associate in Arts in Social Justice Studies for Transfer is intended for seamless transfer to local California State University campuses (CSUs). Students who successfully complete degree requirements will be ensured admission to the CSU system, but not to a particular campus or major. While coursework in Social Justice Studies is designed to provide lower division preparatory requirements for many related degree programs, students should meet with a counselor to determine specific course requirements for local CSUs/programs and to properly identify which CSUs are considered local.

To earn the Associate in Arts in Social Justice Studies for Transfer, student must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Social Justice Studies for Transfer will be able to:

1. Identify and analyze historical and modern-day factors that contribute to social inequities in the United States and globally, especially those related to race, gender, and sexuality.
2. Demonstrate knowledge of the unique experiences and social, artistic, and intellectual contributions of key social groups studied.
3. Apply critical thinking and problem-solving skills to complex social issues related to equality, inclusion, and social justice.

REQUIRED COURSESUnits

SJS 001 Introduction to Social Justice Studies	3
SJS 002 Introduction to Race and Ethnicity	3
PSYC 012 Introduction to Gender	3
3 courses from at least 2 of the 4 Areas	9-10

Required Major Total Units.....18-19

Area 1: History or Government

HIST 028 African American History to 1877	3
HIST 029 African American History Since 1865	3
HIST 031 Mexican American/Chicano History	3
HIST 037 Women in American History	3
PLSC 005 Constitutional Rights in a Multicultural Society.....	3

Area 2: Arts and Humanities

Art 012 Inside/Outside: The Cultures and Identities of Diverse Visual Artists in the U.S.	3
CINA 011 American Cultures in Film.....	3
ENGL 036 Multi-Ethnic Literature in America.....	3
MUSC 013 Multicultural Music in America.....	3

Area 3: Social Science

ANTH 002 Cultural Anthropology	3
CDFS 053 Teaching in a Diverse Society.....	3
COMM 012 Intercultural Communication	3
PSYC 007 Cross-Cultural Psychology	3
PSYC 034 Human Sexual Behavior	3

Area 4: Quantitative Reasoning and Research Methods

MATH 011 Elementary Statistics.....	4
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Social Justice/Ethnic Studies

Ethnic Studies

Associate in Arts

Program Description

This is an interdisciplinary program which provides an opportunity for students to pursue organized studies of minority groups in American Society and to foster and expand general understanding of these groups. The courses allow for a wide latitude of study to meet a variety of interests with courses which fulfill competence in and an understanding of the unique contributions of American ethnic groups; interpretation of American ethnic culture as manifested in its history, its literature, and its social, economic, political, and philosophical development. (The course descriptions may be found under the appropriate disciplines.)

The Associate in Arts can be obtained by completing the 18-22-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

Program Outcomes

Students who complete the Ethnic Studies Associate in Arts will be able to:

1. Increase understanding of diverse ethnic groups in American society.
2. Identify and analyze the impact of culture and the significance of history and literature.
3. Develop competence as it pertains to various ethnic groups including an understanding of their social, economic, political and philosophical development.
4. Develop competence in understanding the unique contributions of ethnic groups in American Society.

REQUIRED COURSES Units

SOCS 022 Ethnic, Racial and Minority Group Relations in Harmony and Conflict.....	3
One course from List A	3
One course from List B	3
One course from List C	3
Two courses from List D	6-10
Required Major Total Units.....	18-22

List A: (select one course) Units

ART 012 Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America	3
MUSC 007 Jazz and Popular Music in America: Ragtime to Rock	3
MUSC 013 Multicultural Music in America.....	3

List B: (select one course) Units

COUN 055 Valuing Diversity	3
SOCS 030 Peace, Non-Violence, and Conflict Resolution.....	3

List C: (select one course) Units

HIST 028 African American History to 1877	3
HIST 029 African American History Since 1865	3
PLSC 005 Constitutional Rights in a Multicultural Society.....	3
SOCS 053 Civil Rights, Non-Violence, and Race Relations	3

List D: (select two courses) Units

ANTH 002 Cultural Anthropology	3
COUN 055* Valuing Diversity	3
ENGL 036 Multi-Ethnic Literature in America.....	3
HIST 028* African American History to 1877	3
HIST 029* African American History Since 1865	3
HIST 031 Mexican American/Chicano History	3
HS 053 Serving Special Populations.....	3
MUSC 007* Jazz and Popular Music in America: Ragtime to Rock	3
MUSC 013* Multicultural Music in America.....	3
PLSC 005* Constitutional Rights in a Multicultural Society.....	3
PSYC 007 Cross-Cultural Psychology	3
SOC 002 Social Issues and Problems	3
SOC 023 Sociology of African Americans.....	3
SOCS 025 Mexican-American Experience.....	3
SPAN 001 First Semester Spanish	5
SPAN 002 Second Semester Spanish	5
SPAN 003 Third Semester Spanish.....	5
SPAN 004 Fourth Semester Spanish	5
THEA 013 Diversity in American Theatre: A Contemporary Focus.....	3

* If not used for List A-C

Sociology Department

DEGREES

Sociology (AA-T)
Sociology (AA)

COURSES

SOC (Sociology)

CONTACT INFORMATION:

School of Social and Behavioral Sciences

Building: 700 Room 729

Phone Number: (707) 864-7000 x7251

Fax Number: (707) 646-7701

Dean: Sandy Lamba

Administrative Assistant: Janet Leary

Faculty Contact:

Tonmar Johnson



P.A.C.E. - EDUCATION, BEHAVIORAL SCIENCE, AND THE SOCIAL WORLD - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to question and explore physical, biological, or cultural happenings?
- ...enjoys using your skills with words to serve people?
- ...likes to observe, learn, analyze, evaluate, or solve problems?
- ...is interested in how social systems and society works?

Guided Pathways:

SOCIOLOGY AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 62-64.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Sociologist • Sociology Teacher • Social Science Researcher

What your potential plan could look like...

1 First Semester Total Recommended Units: 14

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- SOC 001 Intro to Sociology (IGETC 4) 3 units
- COMM 001, 002, or 006 (IGETC 1C) 3 units
- UC Transferable Elective Suggested: COUN 005 or 007 3 units

3 Third Semester Total Recommended Units: 15-17

- SOC LIST B of the ADT 3 units
- UC Transferable Elective 3 units
- IGETC 5A Suggested: ASTR, GEOL, GEOG 3 units
- HIST 017, 018, 028, 029, or 037 (IGETC 3B/American Institutions) 3 units
- ASL 001, FREN 001, or SPAN 001, or UC Transferable Elective * 3 - 5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

2 Second Semester Total Recommended Units: 14

- ENGL 002 or 004 (IGETC 1B) 4 units
- MATH 011 Statistics (IGETC 2B) 4 units
- SOC 002 Social Issues and Problems (IGETC 4) 3 units
- SJS 002 Intro to Race and Ethnicity (IGETC 4/Cross-cultural) 3 units

4 Fourth Semester Total Recommended Units: 13-13.5

- SOC LIST C of the ADT 3 units
- IGETC 3A or 3B 3 units
- IGETC 5B/5C Suggested: BIO 012 & 012L, BIO 015, or BIO 016 & 016L 4 - 4.5 units
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer) Total Recommended Units: 6

- UC Transferable Elective 3 units
- IGETC 3A 3 units

■ Square, darker color:
Required Courses/
Courses in Discipline

● Rounded, lighter color:
GE Courses/Categories

Sociology

Associate in Arts in Sociology for Transfer (ADT: A.A.-T)

Program Description

Sociology is the study of society and human behavior. Students who obtain a degree in Sociology gain a fundamental understanding of culture, socialization, inequality, racial and ethnic relations, sex roles, deviance, social issues and problems, and the distribution of political and economic power. Sociology students prepare themselves for a job in the field of business, health, education, criminal justice, government/law, or social service, and a variety of other areas.

The Associate in Arts in Sociology for Transfer is intended for students who plan to complete a bachelor's degree in Sociology at a CSU campus. Students completing this degree (A.A.-T in Sociology) are guaranteed priority admission to the CSU system, but not to a particular campus or major.

To earn the Associate in Arts in Sociology for Transfer, student must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Sociology for Transfer will be able to:

1. Become more aware of cultural, social, political, environmental, and economic forces within the world they live.
2. Raise their ethnic consciousness to a higher level of understanding and acceptance.
3. Build skills in critical thinking, reading and writing.
4. Improve skills cited above to provide an excellent base for transfer and success at four-year institutions.

REQUIRED COURSESUnits

SOC 001 Introduction to Sociology	3
SOC 002 Social Issues and Problems	3
PSYC 004 Research Methods in Behavioral Science	3
MATH 011 Elementary Statistics	4
SOC 040 Sociology of the Family	3
Once course from List A	3

Required Major Total Units.....19

List A: (select one course) Units

SJS 002 Introduction to Race and Ethnicity	3
SJS 030 Peace, Non Violence, and Conflict Resolution ...	3
SOC 045 Sociology of Religion	3
SOC 075 Introduction to Sociology of Sport	3

Sociology

Sociology

Associate in Arts

Program Description

Sociology is the study of society and human behavior. Students who obtain a degree in Sociology gain a fundamental understanding of culture, socialization, inequality, racial and ethnic relations, sex roles, deviance, social issues and problems, and the distribution of political and economic power. Sociology students prepare themselves for a job in the field of business, health, education, criminal justice, government/law, or social service, and a variety of other areas.

The Associate in Arts can be obtained by completing the 18-19-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis

Program Outcomes

Students who complete the Sociology Associate in Arts will be able to:

1. Demonstrate knowledge of cultural, social, political, environmental, and economic forces within the world they live.
2. Demonstrate awareness of equity issues within and between ethnic groups.
3. Demonstrate an ability to critically analyze sociological concepts and issues

REQUIRED COURSES	Units
SOC 001 Introduction to Sociology	3
SOC 002 Social Issues and Problems	3
PSYC 004 Research Methods in Behavioral Science	3
Two courses from List A	6
One course from List B	3-4
Required Major Total Units	18-19

List A: (select two courses)	Units
SOC 023 Sociology of African Americans	3
SOC 040 Sociology of the Family	3
SOC 045 Sociology of Religion	3
SOC 075 Introduction to Sociology of Sport	3
List B: (select one course)	Units
ANTH 002 Cultural Anthropology	3
MATH 011 Elementary Statistics	4
PLSC 019 Human Rights and Sexual Orientation	3
PSYC 030 Introduction to Social Psychology	3
SJS 002 Introduction to Race and Ethnicity.	3

Spanish

SEE FOREIGN LANGUAGES DEPARTMENT

[Spanish \(AA-T\)](#)

[Foreign Languages, Individual \(Spanish\) \(AA\)](#)

Sports Medicine

SEE KINESIOLOGY DEPARTMENT

[Sports Medicine/Athletic Training \(AS\)](#)

Theatre Arts Department

DEGREES

Theatre Arts (AA-T)
Theatre Arts (AA)

CERTIFICATE OF ACHIEVEMENT

Theatre Arts Technical

COURSES

[THEA \(Theatre Arts\)](#)

CONTACT INFORMATION:

School of Liberal Arts

Building: 1300 **Room** 1307B

Phone Number: (707) 864-7250

Fax Number: (707) 646-2072

Dean: Neil Glines

Administrative Assistants:

Leigh Anne Jones

Donna Meyer

Faculty Contact: Christine Sendlakowski-Mani



P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

P.A.C.E. - VISUAL, PERFORMANCE, AND LANGUAGE ARTS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to express yourself creatively and using imagination or intuition?
- ...enjoys feeling free to be inventive without limits?
- ...likes to inform, enlighten, help, or teach, using your skills with words and physicality to serve people?
- ...is interested in self-expression and thinking critically on the world in which we live?

Guided Pathways:

THEATRE ARTS AA-T

Associate in Arts for Transfer | GE Pattern: IGETC | Program Total Units: 61-65.5

This program map represents **one possible pathway**. See a counselor to create a customized education plan. Map is for the 2021-2022 catalog year.

Career Paths

Actor, Dancer, and/or Singer • Art or Drama Therapist • Costumer Designer • Stage Manager •
Set and Exhibit Designer • Technical Theater Crew Member • Theater Teacher • Theater Director

What your potential plan could look like...

1 First Semester

Total Recommended Units: 14-15

- ENGL 001 College Composition (IGETC 1A) 4 units
- LR 010 Introduction to Library Research 1 unit
- MATH 012 (IGETC 2B) 3 units
- THEA 001 Acting 1 3 units
- THEA 024 or 047 Performance/Production 3 - 4 units

3 Third Semester

Total Recommended Units: 13-16.5

- IGETC 5B/5C Suggested: BIO 012 & 012L, BIO 015, or BIO 016 & 016L 4 - 4.5 units
- LIST A of the ADT 3 units
- IGETC 3A or 3B 3 units
- ASL 001, FREN 001, or SPAN 001, or UC Transferable Elective* 3 - 5 units

*Depends on whether or not student took two years of the same foreign language in high school and passed with a minimum grade of c.

Square, darker color: Required Courses/
Courses in Discipline

Rounded, lighter color: GE Courses/Categories

2 Second Semester

Total Recommended Units: 13

- ENGL 002 or 004 (IGETC 1B) 4 units
- COMM 001, 002, or 006 (IGETC 1C) 3 units
- THEA 006 Introduction to Theatre (IGETC 3A) 3 units
- LIST A of the ADT 3 units

4 Fourth Semester

Total Recommended Units: 13-15

- LIST A of the ADT 3 units
- PLSC 001 or 005 (IGETC 4/American Institutions) 3 units
- IGETC 5A Suggested: ASTR, GEOL, GEOG 3 units
- COMM 012, COUN 015, HIST 037, PSYC 007, or SJS 002 (IGETC 4/Cross-cultural) 3 units
- IGETC 3B 3 units

Courses Below May Be Taken Any Time (Fall, Spring or Summer)

Total Recommended Units: 6

- UC Transferable Elective 3 units
- HIST 017, 018, 028, 029, or 037 (IGETC 4/American Institutions) 3 units

Theatre Arts

Associate in Arts in Theatre Arts for Transfer (ADT: A.A.-T)

Program Description

Theatre teaches practical skills, performance techniques, and creativity. It is the goal of this department to provide students with the tools needed to pursue a university degree or a career in the performing arts. In terms of university degrees, the curriculum of all core Solano College Theatre courses have been designed to equal courses offered in the UC and CSU system. In terms of careers in the performing arts, a wide range of academic and professional opportunities exists. These job opportunities include work in stage performance, television/film acting, lighting, sound, stage makeup design, costume design, house management, theatre education, theatre for youth, stage management, and even sporting event production.

The Associate in Arts in Theatre Arts for Transfer is intended for students who plan to complete a bachelor's degree in performance theatre or technical theatre. Students completing the A.A.-T are guaranteed admission to the CSU system, but not to a particular class or major.

To earn the Associate in Arts in Theatre Arts for Transfer, students must:

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Program Outcomes

Students who complete the Associate in Arts in Theatre Arts for Transfer will be able to:

1. Demonstrate comprehension of technical elements and design processes.
2. Provide evidence of vocal and physical performance techniques.
3. Assess written materials for context, theme, structure, and technical requirements.
4. Express the relationship between culture and dramatic art, using scholarly sources to analyze the performing art persuasively and thoroughly.

REQUIRED COURSES..... Units

THEA 006 Introduction to Theatre.....	3
THEA 001 Acting 1	3
3-4 Units of a Performance/Production Course	3-4
Three courses from List A.....	9

Required Major Total Units.....18-19

Performance/Production (select 3-4 Units) Units

THEA 024A Rehearsal and Performance in Production Comedy.....	4
THEA 024B Rehearsal and Performance in Production Drama	4
THEA 024C Rehearsal and Performance in Production Classical	4
THEA 024D Rehearsal and Performance in Production Musical	4
THEA 047A Technical Theatre in Production – Comedy	3
THEA 047B Technical Theatre in Production – Drama	3
THEA 047C Technical Theatre in Production – Classical	3
THEA 047D Technical Theatre in Production – Musical .	3

List A (select 3 courses)..... Units

THEA 002 Acting 2	3
THEA 003 Stagecraft	3
THEA 008 Stage Make-Up.....	3
THEA 009 Script Analysis	3
THEA 020 Introduction to Stage Lighting.....	3
THEA 021 Introduction to Theatre Design.....	3
THEA 032A Fundamentals of Costume Design – Comedy.....	3
THEA 032B Fundamentals of Costume Design – Drama	3
THEA 032C Fundamentals of Costume Design – Classical.....	3
THEA 032D Fundamentals of Costume Design – Musical.....	3

Theatre Arts

Theatre Arts

Associate in Arts

Program Description

This program is designed for students who are furthering their theatre education, as well as those seeking a career in the entertainment industry. In terms of university degrees, the curriculum of all core Solano College Theatre courses have been designed to equal courses offered in the UC and CSU system. Whether choosing the Acting or Technical emphasis, the major will provide a basic theatre foundation which will include “hands on experiences” in Acting, Stagecraft, Lighting and Costuming, as well as the historical and cultural background necessary for understanding the craft. Individuals interested in this major may also be seeking a foundation for lifelong learning.

The Associate in Arts can be obtained by completing the 30-31-unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Theatre Arts Associate Degree will be able to:

1. Read and analyze written materials for context, theme and dramatic intent.
2. Demonstrate comprehension of vocal and physical performance techniques.
3. Demonstrate comprehension of technical and artistic production elements including; stagecraft, scenery, costumes, lighting and sound.
4. Utilize and apply current theatrical technology.

REQUIRED CORE:	Units
THEA 001 Acting 1	3
THEA 003 Stagecraft	3
THEA 006 Introduction to Theatre.....	3
THEA 010 Theatre History 1	3
THEA 011 Theatre History 2	3
One Production course.....	3-4
Choose Acting or Technical Emphasis.....	6
6 units from List A.....	6
Required Major Total Units	30-31

List A: (select 6 units)	Units
THEA 005 Applied Drama	3
THEA 008 Stage Make-Up.....	3
THEA 009 Script Analysis	3
THEA 021 Introduction to Theatre Design	3
THEA 032B Fundamentals of Costume Design	3
THEA 050 Acting for the Camera	3
THEA 055 Advanced Theatre Touring Company	1

Production courses: (select one)	Units
THEA 024 Rehearsal and Performance Production	4
THEA 047 Technical Theatre in Production.....	3

Select an Emphasis (Acting or Technical)

Acting Emphasis: (both courses required)	Units
THEA 002 Acting 2	3
THEA 035 Fundamentals of Musical Theatre: Acting	3

Technical Emphasis: (both courses required)	Units
THEA 020 Introduction to Stage Lighting	3
THEA 032A Fundamentals of Costume Design	3

Theatre Arts

Theatre Arts Technical

Certificate of Achievement

Program Description

The Theatre Arts Technical Certificate program prepares students for an entry-level career in Community and Professional Theatre. Beginning careers may include: Scene Shop Technician, Stage Electrician, Property Artisan, Costume Technician, Make-Up Technician, Scenic Artist, Audio Technician, Stage Manager, and Event Tech.

The Certificate of Achievement can be obtained by completing the 33-33.5-unit major. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Theatre Arts Technical Certificate of Achievement will be able to:

1. Work effectively with Lighting and Scenery design plans.
2. Work competently with common materials and techniques when constructing theatrical elements.
3. Apply fundamental techniques while participating as a member of a backstage production crew.
4. Demonstrate basic skills in one or more of the following areas of specialization. lighting hangs and focus, scenic carpentry, scenic painting, audio set up and signal routing.
5. Integrate knowledge of theatre history and literature when constructing theatrical elements.

REQUIRED CORE:	Units	List A: (select 9-9.5 units)	Units
THEA 001 Acting 1	3	THEA 008 Stage Make-Up.....	3
THEA 003 Stagecraft	3	THEA 009 Script Analysis	3
THEA 006 Introduction to Theatre.....	3	THEA 021 Introduction to Theatre Design.....	3
THEA 020 Introduction to Stage Lighting.....	3	THEA 032A Fundamentals of Costume Design	3
THEA 047 Technical Theatre in Production		THEA 032B Fundamentals of Costume Design	1.5
(4 semesters)	12	ART 006 Design Principles in 2-Dimensions	3.5
9-9.5 units from List A	9-9.5	DRFT 045 Introduction to Computer-Aided	
Required Major Total Units	33-33.5	Drafting (CAD)	3
		WELD 125 Gas Metal Arc Welding.....	3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Theatre Arts Technical."

Tutoring Department

DEGREES

The TUTOR courses are designed for students using tutoring services on a drop-in basis or for students wishing to serve as tutors. The courses do not lead to a certificate, degree or transfer agreement.

COURSES:

[TUTOR \(Tutoring\)](#)

CONTACT INFORMATION:

ASTC (Academic Success and Tutoring Center)

Building: Main Campus - Fairfield: Inside the Library

Phone Number:

Main Campus - Fairfield: (707) 864-7230

Vacaville Center: (707) 864-7000 ext 4479

Vallejo Center: (707) 864-7000 ext 4908

Email: ASTC@solano.edu

Dean: Shirley Lewis

ASTC Specialist: Gema Leon

Faculty Contact: Lauren Taylor-Hill



Water and Wastewater Technology Department

DEGREES

Water and Wastewater Technology (AS)

CERTIFICATES OF ACHIEVEMENT

Water and Wastewater Technology

COURSES

WATR (Water and Wastewater Technology)

CONTACT INFORMATION:

School of Mathematics and Sciences

Building: 2700 Room 2719B

Phone Number: (707) 864-7110

Fax Number: (707) 646-2054

Dean: Joseph Ryan

Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Water and Wastewater Technology

Water and Wastewater Technology

Certificate of Achievement and Associate in Science

Program Description

A study of the principles of water and wastewater disposal and purification including municipal and industrial wastewater collection and treatment. The program will satisfy most of the requirements for certification of water and wastewater treatment personnel.

The Certificate of Achievement can be obtained upon completion of the 25-32-unit major. The Associate in Science can be obtained upon completion of the 25-32 unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Water and Wastewater Technology Certificate of Achievement/Associate in Science will be able to

1. Attain certification of plant operators.
2. Understand treatment methods and technology.
3. Understand technology laws and regulations.

REQUIRED CORE COURSESUnits

WATR 100 Wastewater Treatment I 4

WATR 101 Basic Chemistry for Water
and Wastewater 4
or

WATR 102 Sanitary Chemistry 4

WATR 104 Water Treatment I 3

WATR 106 Instrumentation and Controls 3

WATR 107 Mathematics of Water and
Wastewater Treatment 4

Two courses from Specialty Courses 4-5

Select Option 1, 2 or 3 3-9

Required Major Total Units..... 25-32

Specialty Courses (select two courses)..... Units

WATR 105 Wastewater Treatment II 3

WATR 108 Water Treatment II 2

WATR 120 Distribution Systems Maintenance 2

WATR 121 Collection Systems Maintenance 2

Select from the following options:

OPTION 1

BIOT 160 Basic Concepts/Methods in
Biotechnology 4

OPTION 2

BIO 014 Principles of Microbiology 4
One course from List A

List A

CHEM 010 Intermediate Chemistry 4

CHEM 051 Chemistry for the Health Sciences 5

CHEM 001 General Chemistry I..... 5

OPTION 3

WATR 103 Biological Principles of Water
and Wastewater 3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Water & Wastewater Technology."

Welding Department

DEGREES

Welding Technician (AS)

CERTIFICATES OF ACHIEVEMENT

Welding Technician

COURSES

WELD (Welding)

CONTACT INFORMATION:

School of Applied Technology and Business

Building: 500 Room 509

Phone Number: (707) 864-7229

Fax Number: (707) 864-7190

Dean: Lisa Neeley

Administrative Assistant: Jill Crompton

Faculty Contact: Jeffrey "Jeff" Kissinger



P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

Welding

Welding Technician

Certificate of Achievement and Associate in Science

Program Description

Designed to prepare the graduate for employment as a welder or a welder helper in the metal trades. The major types of welding covered are shielded arc, acetylene gas welding, metal inert gas, tungsten inert gas, automatic and semi-automatic welding machines.

The Certificate of Achievement can be obtained upon completion of the 15-unit Certificate Courses. The Associate in Science can be obtained by completing the 15-unit Certificate Courses, the 12-unit Associate Degree Courses, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis. Completion of this program prepares the student to take the welders' certification AWS D1.1 exam.

Program Outcomes

Students who complete the Welding Technician Certificate of Achievement/Associate in Science will be able to:

1. Demonstrate competency in major welding processes used in industry.
2. Apply welding processes and the use of hand tools and shop equipment to fabricate projects.
3. Recognize and interpret technical drawings in the planning and fabrication of projects.
4. Demonstrate appropriate workplace safety policies and procedures during welding and fabrication operations.
5. Apply mathematical concepts to solve problems related to an industrial/technical environment.

CERTIFICATE COURSES	Units
DRFT 079 Blueprint Reading	3
WELD 130 Beginning Shielded Metal Arc Welding (Stick 7018/6010 Basic)	3
WELD 131 Intermediate Shielded Metal Arc Welding (Stick Welding)	3
WELD 132 Advanced SMAW (Stick Welding)	3
IT 151 Vocational Mathematics	3
Required Certificate Major Total Units	15

ASSOCIATE DEGREE COURSES	Units
All Certificate Courses	15
IT 101 Introduction to Mechatronics	3
OCED 070 Occupational Soft Skills	1.5
OCED 071 Occupational Portfolio Development	1.5
WELD 136 Beginning Structural Steel and Flux Core Arc Weld (FCAW)	3
WELD 145 Intermediate Pipe Welding 7018 STK (SMAW)	3
Required Associate Major Total Units	27

This is a Gainful Employment Program. For additional information, please visit http://www.solano.edu/gainful_employment/ and select "Welding Technician."

Courses

A

ACCT - Accounting
AERO - Aeronautics
ANTH - Anthropology
ART - Art
ARTD - Digital Art
ASL - American Sign Language
ASTR - Astronomy
ATEC - Automotive Technology
ATHL - Athletics

B

BIO - Biology
BIOT - Biotechnology
BSOT - Office Technology/
Business Information Worker
BUS - Business

C

CDFS - Child Development and Family
Studies
CHEM - Chemistry
CINA - Cinema
CIS - Computer Information Science
CJ - Criminal Justice
COMM - Communication Studies
COSM - Cosmetology
COUN - Counseling
CS - Computer Science

D

DANC - Dance
DRFT - Drafting

E

ECON - Economics
EDUC - Education
EMT - Emergency Medical
Technician
ENGL - English
ENGR - Engineering
ESL - English as a Second Language..

F

FIRE - Fire Technology
FLNG - Foreign Languages
FREN - French

G

GEOG - Geography
GEOL - Geology

H

HED - Health Education
HIST - History
HORT - Horticulture
HS - Human Services
HUMN - Humanities

I

IT - Industrial Technology

J

JOUR - Journalism

K

KINE - Kinesiology

L

LR - Learning Resources

M

MATH - Mathematics
MGMT - Management
MKT - Marketing
MT - Maintenance Technology
MUSC - Music

N

NURS - Nursing
NUTR - Nutrition

O

OCED - Occupational Education
OT - Office Technology

P

PHIL - Philosophy
PHOT - Photography
PHSC - Physical Science
PHYS - Physics
PLSC - Political Science
PSYC - Psychology

Q

R

RE - Real Estate

S

SJS - Social Justice Studies
SOC - Sociology
SPAN - Spanish
SPMD - Sports Medicine

T

THEA - Theatre Arts
TUTR - Tutoring
TV- Television

U

V

W

WATR - Water/Wastewater
WELD - Welding

X

Y

Z

ACCT - Accounting

ACCT 001 Principles of Accounting - Financial 4.0 Units

Transferable to UC/CSU

Hours: 64-72 lecture

A study and analysis of accounting as an information system, its importance and use by external users such as investors, creditors, and others making decisions. The course covers the accounting cycle, application of the generally accepted accounting principles, financial reporting, and statement analysis, including issues relating to the valuation of assets, liabilities, and equity, the recognition of revenue and expenses, cash flow, internal controls, ethics, and International Financial Reporting Standards. (C-ID ACCT 110)

ACCT 002 Principles of Accounting - Managerial 4.0 Units

*Prerequisite**:* ACCT 001

Course Advisory: Working knowledge of Excel

Transferable to UC/CSU

Hours: 64-72 lecture

A study and analysis of how managers use accounting information in decision-making, planning, directing operations, and controlling, to include the following: terms and concepts; job order cost accounting; process cost accounting; departmental accounting; product analysis; pricing decisions; flexible budgeting; standard cost analysis; cost-volume-profit analysis; preparation of operational, capital and financial budgets; and analysis of financial reporting in manufacturing and service environments. (C-ID ACCT 120)

ACCT 050 Computer Accounting 3.0 Units

*Prerequisite**:* ACCT 001 with a minimum grade of D

Transferable to CSU

Hours: 48-54 lecture

A hands-on course covering a complete computerized accounting system. Topics include a review of basic accounting concepts, preparation of business reports and graphs, and the creation of an accounting system for a company.

ACCT 176 Intermediate Accounting 3.0 Units

*Prerequisite**:* ACCT 001

Course Advisory: Working knowledge of Excel

Hours: 48-54 lecture

Accounting theory as applied to common issues faced by accountants in today's businesses. Lecture, group-study, and computer-based study emphasize the conceptual framework, the four major financial statements, footnotes, and present-value concepts. The class helps prepare the student for an entry-level position in a professional accounting career.

ACCT 177 Cost Accounting 3.0 Units

*Prerequisite**:* ACCT 002

Hours: 48-54 lecture

A comprehensive study and analysis of manufacturing costs as they apply to planning, controlling, and determining unit costs, inventory valuation, and income.

ACCT 180 Introduction To Accounting 3.0 Units

Hours: 48-54 lecture

A study and analysis of the accounting cycle for a merchandising business and professional enterprises, payroll accounting, accruals and deferrals, accounting systems, error correction, and financial reporting.

ACCT 183 Principles Of Income Tax 3.0 Units

Hours: 48-54 lecture

A comprehensive study and analysis of the principles of federal income tax applied to individual, partnership, informational, and corporate tax returns.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

AERO - Aeronautics

AERO 055 Aviation Maintenance Technician - General Aircraft Subjects <i>Transferable to CSU</i> <i>Hours: 80-90 lecture, 240-270 lab</i> Presents the fundamentals necessary for the advanced study in Aeronautics. It will define the history of aviation and powerplant operation, and the study of flight: aircraft weight and balance, ground operation and servicing, mathematics, maintenance forms and records, basic physics, maintenance publication, and mechanic privileges and limitation. Safety is stressed throughout the course. In addition, this course is a study of the methods and processes used in the production of an aircraft, including shop safety. The course includes fundamentals in the use of hand tools and power equipment, aircraft drawings, cleaning, corrosion control; and the processes used by the manufacturers for aircraft construction.	10.0 Units	AERO 105 Aviation Maintenance Technician - Airframe Systems <i>Hours: 80-90 lecture, 240-270 lab</i> A detailed study of the fundamentals of fabrication, maintenance, and repair of aircraft airframe systems. The course includes study of all basic systems which include: landing gear, hydraulic, pneumatic, cabin atmospheric control, flight instrumentation, communication, navigation, fuel storage and delivery, ice and rain detection, prevention and removal as well as fire detection and protection systems.	10.0 Units
AERO 102 Aviation Maintenance Technician - Airframe Structures <i>Hours: 80-90 lecture, 240-270 lab</i> Presents the application of fundamental methods, techniques, and practices used in aircraft inspection, maintenance, and repair. The course includes fundamentals of shop safety, wood structures, fabric covering, finishes, composite structures, plastics, sheet-metal structures, welding, assembly and rigging, and airframe inspection.	10.0 Units	AERO 106 Aviation Maintenance Technician - Powerplant Reciprocating Engines <i>Hours: 80-90 lecture, 240-270 lab</i> Designed to acquaint the student with reciprocating engines. The course includes study in the fundamentals of basic engine design, types and materials of construction, nomenclature, repair, overhaul and servicing, maintainability and reliability concepts.	10.0 Units
AERO 103 Aviation Maintenance Technician - Basic Electricity and Hydraulics <i>Hours: 80-90 lecture, 240-270 lab</i> A study of fluid control systems and components with emphasis on design, maintainability, testing and system repair. The course includes the fundamentals of hydraulic fluids, fluid carrying lines and fittings, inspection, servicing and testing of pneumatic and hydraulic systems. The course also presents theory and application of direct and alternating current as related to aircraft electrical components and systems.	10.0 Units	AERO 107 Aviation Maintenance Technician - Powerplant Turbine Engines <i>Hours: 80-90 lecture, 240-270 lab</i> Presents a study of the theory, operation, maintenance and repair of the turbine engine and related systems. It gives the student practical "hands on" experience that will satisfy future employment and FAA requirements.	10.0 Units
		AERO 118 Aviation Maintenance Technician - FAA Airframe Test Preparation <i>Hours: 24-81 lab</i> Taken during the final semester of a student's enrollment in the Aeronautics program. The course consists of a comprehensive oral, practical, and written examination of all material covered in the Airframe Program for the purpose of verifying the students' readiness to pass the Federal Aviation Administration Airframe Examinations. Students may take this course up to the maximum number of units over multiple semesters. <i>This is an Open Entry/ Open Exit course.</i>	0.5 to 1.5 Units

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

AERO - Aeronautics

AERO 119

0.5 to 1.5 Units

Aviation Maintenance Technician - FAA Powerplant Test Preparation

Hours: 24-81 lab

Taken during the final semester of a student's enrollment in the Aeronautics program. The course consists of a comprehensive oral, practical, and written examination of all material covered in the Powerplant Program for the purpose of verifying the students readiness to pass the Federal Aviation Administration Powerplant Examinations. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/Open Exit course.*

AERO 150

0.5 to 1.5 Units

Aviation Maintenance Technician - FAA Special Projects and Course Enhancement

Course Advisory: Any Solano College Aeronautics course (AERO 055-119); or previous training/experience in aeronautics

Hours: 24-81 lab

This course gives Aeronautics students a chance to make up time lost for FAA certificate and/or to work on special projects required by FAA to bring students in line with new FAA FAR Part 66 requirements. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/Open Exit course.*

AERO 151

0.5 to 1.5 Units

Aviation Maintenance Technician - FAA Special Projects - Powerplant Enhancement

Hours: 24-81 lab

Gives Aeronautics students a chance to make up time lost for FAA certificate and/or to work on special projects required by FAA to bring students in line with new FAA FAR Part 66 requirements. Students may take this course up to the maximum number of units over multiple semesters. *This is an Open Entry/Open Exit course.*

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ANTH - Anthropology

ANTH 001 Physical Anthropology

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C
General Education: SCC: Area A; IGETC: Area 5B; CSU: Area B2
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to the science of physical anthropology; covering the concepts, methods of inquiry, and scientific explanations of biological evolution and their application to the human species. Topics to be covered will include: the scientific method, genetics, principles and mechanisms of biological evolution, modern human variation and the race concept, biocultural adaptations, primate classification, comparative primate anatomy and behavior, and the fossil evidence for human evolution. (C-ID ANTH 110)

ANTH 001L

1.5 Units

Physical Anthropology Laboratory

*Prerequisite**:* ANTH 001 (may enroll concurrently)
General Education: SCC: Area A; IGETC: Area 5C; CSU: Area B3
Transferable to UC/CSU
Hours: 8-9 lecture, 48-54 lab

A laboratory introduction to familiarize students with the methods and materials of physical anthropology, and is intended to be a companion course to ANTH 001 (Physical Anthropology). This course provides hands-on experience with genetics exercises as well as the skeletal materials of modern humans, non-human primates, and fossil hominins. Other topics discussed include the scientific method, sources of biological variation (with special focus on variation in humans and non-human primates) and the forces of evolution, biological classification of the primates, and non-human primate behavior. A field trip may be required. (C-ID ANTH 115L)

ANTH 002 Cultural Anthropology

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C.
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to the anthropological study of human culture; covering anthropological concepts such as fieldwork, holism, the comparative method, cultural relativism, the nature of culture and cultural identity, and research ethics. Topics will include: subsistence patterns, political organizations including social inequality, kinship and family, communication, supernatural belief systems, gender and sexuality, art, culture change including globalization, and applied anthropology. (C-ID ANTH 120)

ANTH 006 Magic, Witchcraft, and Religion

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C
General Education: CSU: Area D
Hours: 48-54 lecture

A cross-cultural, multi-cultural examination of the forms and functions of supernatural belief systems and associated rituals that have developed in various societies. Basic anthropological concepts and methodologies will be introduced and applied to the assessment and analysis of selected cultural and religious traditions. This course also examines the general functions of ritual and mythology in reinforcing cultural ideals and ethics. Emphasis will be placed on understanding religious belief systems within their given social contexts.

ANTH 007 Archaeology

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C;
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to the study of the concepts, theories, methods, and data of archaeology that contribute to our knowledge of human cultures. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. Several key archaeological sites will be covered and will serve to illustrate central archaeological theories and methods. (C-ID ANTH 150)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ART - Art

ART 001 Art History

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1
Transferable to UC/CSU
Hours: 48-54 lecture

Explores the history of art in the Western World from the Paleolithic era through the Middle Ages. Focuses on the interrelation of art and culture, with a comparative study of select works of non-Western art. *Field trip may be required. (C-ID ARTH 110)*

ART 002 Art History

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1
Transferable to UC/CSU
Hours: 48-54 lecture

Explores the history of Western Art through a critical analysis of Renaissance art through Post-Modern Art. Students will examine the connection between art and culture, and evaluate the historic, religious, and political influences on the artistic choices of diverse men and women of art history from the 15th century to today. *Field trip may be required. (C-ID ARTH 120)*

ART 003A Arts of Asia

3.0 Units

Course Advisory: ENGL 001
General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1
Transferable to UC/CSU
Hours: 48-54 lecture

A survey of art and architecture from India, Southeast Asia, China, Korea, and Japan from pre-history to modern times. *(C-ID ARTH 130)*

ART 003B

3.0 Units

Arts of Africa, Oceania, and the Americas

Course Advisory: ENGL 001
General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1
Transferable to UC/CSU
Hours: 48-54 lecture

A survey of the arts and architecture of Africa, Oceania, and the Americas, with an emphasis on traditional arts and practices. This course will also address issues related to the scholarship and display of these arts in the Western world. *(C-ID ARTH 140)*

ART 004 Life Drawing

3.0 Units

Transferable to UC/CSU
Hours: 32-36 lecture, 64-72 lab

A study of the human figure in action and repose using a variety of drawing materials and approaches. Students work directly from the live model to develop skills using assignments which include gesture, line drawings, tone studies and the use of color. The student submits a midterm and final portfolio for evaluation. *Field trip may be required. (C-ID ARTS 200)*

ART 005 Life Drawing - Intermediate

3.0 Units

*Prerequisite**:* ART 004
Transferable to UC/CSU
Hours: 32-36 lecture, 64-72 lab

The continued study of the human figure with more advanced problems in drawing and composition. Following initial review, the student may choose an individual program of study with the approval of the instructor. *Field trip may be required.*

ART 006 Design Principles In 2-Dimensions

3.0 Units

Transferable to UC/CSU
Hours: 32-36 lecture, 64-72 lab

A fundamental study of visual elements and principles of design for production of art images in 2-Dimensions using various materials in black and white. Design formats developed from historic and aesthetic precepts are employed to investigate the relationship of form and content. *Field trip may be required. (C-ID ARTS 100)*

ART 007 Design-Color

3.0 Units

Transferable to UC/CSU
Hours: 32-36 lecture, 64-72 lab

A study of the principles of additive and subtractive color in two dimensions. Various theories of color will be studied including those of Albers and Ittens. Reference to the use of color in the dominant styles of art history will be made. Students will produce a portfolio of projects in applied color and the elements of design. *Field trip may be required. (C-ID ARTS 270)*

ART 008 Design Principles In 3-Dimensions

3.0 Units

Transferable to UC/CSU
Hours: 32-36 lecture, 64-72 lab

A fundamental study of visual elements and principles of design for production of art objects in three dimensions using various sculpture materials and methods. Design formats developed from historic and aesthetic precepts are employed to investigate the relationships of form and content. *Field trip may be required. (C-ID ARTS 101)*

ART 010 Art Appreciation

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1
Transferable to UC/CSU
Hours: 48-54 lecture

An introductory examination of the cultural, universal, and personal factors influencing the making and viewing of art. Including a study of style, composition, materials and techniques used in the creation of art from disparate cultures and periods of history. *Field trip may be required. (C-ID ARTH 100)*

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ART - Art

ART 011 Survey of Modern Art

3.0 Units

Course Advisory: ENGL 001

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

A study of the art and architecture of the major modern movements and artists from the 19th and 20th centuries. Analysis of subject, form and content of paintings, photography and sculpture in lecture and audio visual presentation. Classes supplemented by field trips to current exhibitions. Written examinations and paper required. Modern Art is a capstone course designed for, but not limited to, Art History and Studio Art Majors. *Field trip may be required. (C-ID ARTH 150)*

ART 012

3.0 Units

Inside/Outside: The Cultures and Identities of Diverse Visual Artists in the U.S.

Course Advisory: ENGL 001

General Education: SCC: Area C, Area E; IGETC: Area 3A, SCC Cross-Cultural; CSU: Area C1, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

An art survey course that examines and assesses three or more groups of culturally diverse artists, art organizations and support structures. Explores art issues related to social and historical trends in the U.S., including ways in which art may reflect and shape American attitudes towards identity (ethnic, gender, sexual, intersectional), culture and discrimination. *Field trip may be required.*

ART 014 Introduction To Drawing

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A study of drawing as a means of expression with emphasis on the potential variety of forms and materials available to the artist. Students will create representational and abstract drawings from still life, the figure, nature and imagination. Observational drawing skills and technical skills will be developed. *Field trip may be required. (C-ID ARTS 110)*

ART 015 Intermediate Drawing

3.0 Units

Course Advisory: ART 014

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A basic drawing class which develops the concepts introduced in ART 014 on a more advanced level. Problems in observation and imagination and the translation of these experiences into graphic terms by exploration of line, shape, mass, space, texture, and light and shadow. Emphasis on composition and the development of a personal approach to drawing. Students will be required to submit a portfolio of assignments. *Field trip may be required. (C-ID ARTS 205)*

ART 015B Collage and Assemblage

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Explores the making of 2D and 3D collages and assemblages in a variety of media. Addresses the history and prevalence of collage thinking as an approach to art making while integrating traditional drawing and painting skills. *Field trip may be required.*

ART 015C Book Making

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Explores book making in a variety of formats. Discusses the history and development of the book. Students will make several books: Classic signature book bound between boards, side bound books and a variety of artist's books including altered books, boxed books, and 3 dimensional book structures like accordion books and pop-up books. *Field trip may be required.*

ART 016 Beginning Painting

3.0 Units

Course Advisory: ART 014

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

An introduction to techniques and materials of painting in acrylic or oil. Designed for the student with limited experience in painting, this course includes color theory, composition, exposure to a variety of subject matters, and the development of skills for individual expression. *Field trip may be required. (C-ID ARTS 210)*

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ART - Art

ART 017

Intermediate Painting: Acrylic and Oil

Course Advisory: ART 016

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A study of acrylic and oil painting techniques focusing on use of color, the medium and composition. A series of painting assignments designed to develop skills in both media. *Field trip may be required.*

3.0 Units

ART 018

Advanced Intermediate Painting: Acrylic and Oil

*Prerequisite**:* ART 017

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A study of color, composition and technique in oil or acrylic painting on an intermediate level. Students may choose to build on assignments from ART 017 or develop an outline of semester assignments appropriate to their interests and skill needs. *Field trip may be required.*

3.0 Units

ART 019 Figure Painting

Course Advisory: ART 016

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A study of the human figure using a variety of painting techniques and approaches. Students work directly from the live model to develop skills in rendering and expression. Assignments include long and short observational paintings which will afford skill development in materials handling as well as compositional and thematic developments. *Field trip may be required.*

3.0 Units

ART 019B Clothed Figure

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Understanding the various properties of clothing and drapery, as used with the figure in painting and drawing. Gesture, proportion, form and color will be studied in relation to the clothed figure. Projects will include a variety of costume statements including fashion, sport, fantasy or science fiction and theatre costume. *Field trip may be required.*

3.0 Units

ART 020

Landscape Drawing And Painting - Reflections Of Nature

Transferable to UC/CSU

Hours: 16-36 lecture, 48-72 lab

A focus on the outdoors as subject matter. Frequent field trips and class exercises will introduce and expand the student's awareness and observational skills of the environment, in the tradition of Natural History as well as plein air (outdoor) art making. The student will reflect and translate these experiences into graphic terms using various media while considering line, shape, mass, space, texture, light, color and shadow. The student will focus on composition and content while developing a personal understanding of the environment. Keeping a written and visual journal will also be a component of this class. This course will examine the interrelationships of humans and their surroundings, and the aesthetic choices available with which to communicate our responses. This class will consist of regular field trips during class meetings as well as some weekend outings. Films, special lectures, various projects and assignments as well as consideration for weather conditions will make up the remaining time in the studio. Students who wish to transfer must enroll in the 3-unit section.

2.0 or 3.0 Units

ART 021 Watercolor

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

An introduction to the materials and techniques of transparent watercolor. Including basic composition, color study and an exploration of materials. Lectures, demonstrations and field study will supplement class assignments. *Field trip may be required.*

3.0 Units

ART 022 Watercolor - Intermediate

*Prerequisite**:* ART 021

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A continuation of the study of basic watercolor techniques with emphasis on a more individual approach to the medium. The student and instructor develop a course of study that will focus on needs in the areas of skills and self-expression. *Field trip may be required.*

3.0 Units

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ART - Art

ART 023

3.0 Units

Introduction to Ceramics: Hand Building

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Basic construction methods of hand building and finishing pottery. Emphasis on form, craftpersonship and creativity. Building methods include pinch technique, coil building, and slab construction. Surface techniques include texture, stencil, slip, relief, stain, and glaze. Non-traditional construction and surface techniques will also be covered. *Field trip may be required.*

ART 024

3.0 Units

Intermediate Ceramics: Hand Building

*Prerequisite**:* ART 023

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A continuation of ART 023 with emphasis on expanding skills, experimentation, design, craftpersonship, and creativity. Application of basic techniques to create finished art forms. *Field trip may be required.*

ART 025

3.0 Units

Ceramic Design And Decoration: Hand Building Methods

*Prerequisite**:* ART 024

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Emphasizes ceramic design problem-solving. Emphasis on creativity, design, honing skills, craftpersonship and experimentation. Ceramic art of the past as well as contemporary art is discussed. Loading and firing kilns, formulating glazes and mixing clay bodies are also covered. Builds on fundamental skills covered in Art 023 and Art 024. *Field trip may be required.*

ART 026

3.0 Units

Introduction to Ceramics: Wheel Throwing Techniques

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Introduction to basic wheel throwing techniques. Emphasis on form, craftpersonship, and creativity. Surface techniques include texture, stencil, slip, relief, stain, and glaze. Non-traditional construction and surface techniques will also be covered.

ART 027

3.0 Units

Intermediate Ceramics: Wheel Throwing Techniques

*Prerequisite**:* ART 026

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

This course is a continuation of ART 026 with emphasis on expanding skills, experimentation, design, craftpersonship, and creativity. Application of basic techniques to create finished art forms. Field trip may be required.

ART 028

3.0 Units

Ceramic Design: Wheel Throwing Techniques

*Prerequisite**:* ART 027

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Emphasizes ceramic design problem-solving. Emphasis on creativity, design, honing skills, craftpersonship and experimentation. Ceramic art of the past as well as contemporary art is discussed. Loading and firing kilns, formulating glazes and mixing clay bodies are also covered. Builds on fundamental skills covered in ART 026 and ART 027. *Field trip may be required.*

ART 029 Raku Pottery

2.0 or 3.0 Units

Course Advisory: ART 023 or ART 026 (one college level ceramics course)

Transferable to UC/CSU

Hours: 16-36 lecture, 48-72 lab

Covers the ancient and contemporary art of Raku. Topics include techniques of forming clay, the formulation of clay bodies and glazes for Raku, kiln construction, firing, post firing, Eastern and Western esthetics, and the history of Raku. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. *Field trip may be required.* Students who wish to transfer must enroll in the 3-unit section.

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ART - Art

ART 030A

2.0 or 3.0 Units

Architectural Ceramics, Murals and Tiles

Course Advisory: ART 023 or ART 026 (one college level ceramics course)

Transferable to UC/CSU

Hours: 16-36 lecture, 48-72 lab

An investigation of the history, contemporary examples, materials, techniques and the vast range of artistic expression possible in architectural ceramics, ceramic murals and tiles. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. Students should expect to incur materials and equipment costs typical of a studio art course. *Field trips may be required.* Students who wish to transfer must enroll in the 3-unit section.

ART 030B

3.0 Units

Mural Painting: History, Community, Practice

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab.

An exploration of the cultural history of mural painting as well as the social and political issues related to the creation and public reception of mural paintings. Students will apply aesthetic as well as conceptual analyses to the design and creation of a full-scale mural. Through both study and practice, students will consider the importance of the community in the mural-making process. *Field trips may be required.* Students may travel to view murals in the Bay Area. Murals may be painted at an off-campus site.

ART 030C

3.0 Units

Ceramics: History, Culture, Practice

General Education: IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Introduction to a broad spectrum of ceramic art from diverse cultures including Western/European Art, Asian/Middle Eastern Art, Meso-American Art and African Art within a technical, historical, and cultural context. Students will utilize creative problem solving skills to produce contemporary, original works of art that reinterpret the traditions presented in the course content.

ART 031 Sculpture

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Introduction to sculpture methods and materials. Emphasis on principles of three dimensional design and the interrelationship of form, content and context. Sculpture methods to be covered include modeling, mold making, welding, assemblage, and construction with a variety of materials. Various sculpture methods are practiced with attention to creative self-expression and historical context. *Field trip may be required.*

ART 032 Sculpture: Human Figure

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Study of the human form in sculpture. Students will create both realistic and abstract sculpture of the human form in a variety of materials. *Field trip may be required.*

ART 033 Intermediate Sculpture

3.0 Units

Prerequisite**: ART 031, ART 032 or ART 034

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Further development of concepts and skills presented in ART 031 and ART 032. Emphasis is placed on individual expression. A variety of materials, methods, and sculptural concepts are explored. *Field trip may be required.*

ART 034 Ceramic Sculpture

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Introduction to basic sculpture concepts, materials, and approaches with an emphasis on ceramics. Subjects to be covered include: Historic and contemporary approaches to ceramic sculpture, slab construction, coil building, mold making, extruded fabrication, modeling from the figure, introduction to ceramic color, characteristics and limitations of ceramic materials. *Field trip may be required.*

ART 035A

3.0 Units

Introduction to Wood-Fired Ceramics

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Covers the ancient and contemporary art of wood-fired ceramics. Topics include techniques of forming clay, the formulating of clay bodies and glazes for wood fire, kiln construction, wood firing techniques, Eastern and Western esthetics and the history of wood-fired ceramics. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques.

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ART - Art

ART 036

2.0 or 3.0 Units

Ceramics Surfaces - Drawing and Painting on Clay

Transferable to UC/CSU

Hours: 16-36 lecture, 48-72 lab

A ceramic surface design exploration of the vast range of artistic expression possible with ceramic slips, stains, glazes and firing techniques at low, medium and high temperature ranges. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. *Field trip may be required.* Students who wish to transfer must enroll in the 3-unit section.

ART 037

2.0 or 3.0 Units

Clay and Glazes for the Ceramic Artist

*Prerequisite**:* ART 023 or ART 026

Transferable to UC/CSU

Hours: 16-36 lecture, 48-72 lab

Covers and investigates the theoretical and practical aspects of clay and glaze formulation. Topics covered include: Clay/glaze fit, glaze calculation, testing strategies, the development of color, the development of texture, kiln types, kiln temperatures and kiln atmosphere. *Field trip may be required.* Students who wish to transfer must enroll in the 3-unit section.

ART 038 Introduction to Printmaking

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Explores traditional and contemporary approaches to etching (Intaglio), lithography, relief (woodcut and linoleum) and screen printing. Digital and new methods of photographic printmaking are discussed and demonstrated. This course is project oriented to enable the student to develop a portfolio of completed works in various mediums. *Field trip may be required.*

ART 039

3.0 Units

Etching and Engraving: Line Techniques

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

History and techniques of line etching and engraving, includes dry point, sugar lift line etching, and soft ground line variations. The student is expected to produce matted prints of completed projects. *Field trip may be required.*

ART 040 Etching and Engraving: Tone

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Etching and engraving techniques such as aquatint, featherbiting, spit bite, and soft ground which produce tones that have gray and black areas defining line etchings. The student will prepare a portfolio of completed projects. *Field trip may be required.*

ART 041 Etching and Engraving: Color

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Etching and engraving techniques and their history, including the use of multiple plates for each color used on the key plate. Some color plate methods covered include a la poupee, monotype, chine colle, color rollings, and viscosity printing. The student will prepare a portfolio of completed projects. *Field trip may be required.*

ART 042 Screen Printing

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Screen printing techniques from paper stencils and pochoir to photographic and digital processes. Students are expected to develop a portfolio of prints that emphasizes the exploration of personal content while employing advanced screen techniques and related digital processes. The course will consist of studio production, lectures on contemporary and historical screen printing, demonstrations and critiques. *Field trip may be required.*

ART 042A Commercial Screen Printing

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

An introduction to the screen-printing process. Students will participate in the various functions of a design studio: producing artwork; select mesh, frames, and stencil systems; and select inks and substrates based on printing techniques. A combination of laboratory applications and theory will provide the foundation for this course. Acquisition of technical skills through the actual production of screen-printed products is a major goal of this course. Tee shirts, reusable shopping bags and aprons will be some of the merchandise the class will design and print for the Solano College community.

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ART - Art

ART 043

3.0 Units

Print Making: Relief Printing, Including Woodcut

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

A general introduction to printmaking - the history, development, techniques, and processes. Emphasis is on an in-depth study and application of various relief methods (embossing, collagraph, linoleum cut, woodcut, and non-traditional) along with an investigation of relevant image source and development. *Field trip may be required.*

ART 045A Graphic Design I

3.0 Units

Course Advisory: ARTD 044

Transferable to CSU

Hours: 32-36 lecture, 64-72 lab

A fundamental background for terminal and transfer students planning to enter the graphic design field. Instruction in the professional use of design, lettering, and illustration through solution of visual communication problems.

ART 045B Graphic Design II

3.0 Units

*Prerequisite**:* ART 045A

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Computer design and production methods for print and digital mediums using Adobe and other software programs for layout, illustration, typography, and animation. Graphic design principles are stressed.

ART 045C Typography

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C

Transferable to CSU

Hours: 32-36 lecture, 64-72 lab

Fundamentally covers the history, theory and study of letterforms and type design, using both traditional and digital media. Studies will include typographic characteristics, the relationship between type and image, principles of legibility, visual hierarchy, and grid systems. *Field trip may be required.*

ART 046 Illustration I

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Problems in design and rendering of illustration for print and film media. Projects may include illustrations for books, magazines, advertising and film. *Field trip may be required.*

ART 046C Illustration II

3.0 Units

*Prerequisite**:* ART 046 or equivalent as determined by portfolio review

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Studio illustration conception, production and finish. Students will execute illustration projects using professional procedures and equipment. Emphasis is on student creative and technical development. Written papers and portfolio review required.

ART 047 Introduction to Animation

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Introduction to the art of animation, and its history and evolution. Student projects will facilitate and require the further development of visual literacy, esthetic principles, and critical thinking skills. Interactivity, the study of motion and linear and non-linear narrative structures will be explored. Students will gain an understanding of how animation can be used as an effective tool for storytelling, and will gain experience through group and individual animation projects. Offers an in-depth study of animation and interactive work using industry standard animation software.

ART 049 Art Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a grade of 'B' or better; an ability to work independently and permission of the School Dean based on instructor availability.

Transferable to CSU

Hours: 48-162 lab by arrangement

An independent study course designed for sophomores or students who have taken many of the basic classes and wish to continue work with an instructor in a specialized area. The student works by arrangement with the instructor on an outlined program of study. Students may take this course up to the maximum number of units over multiple semesters.

ART 060 Exhibition Design

1.0 to 3.0 Units

Transferable to CSU

Hours: 16-54 lecture

Fundamentals of designing exhibitions in gallery, museum, and alternative spaces. Students will gain experience developing exhibitions for the Herger Gallery (Fairfield Campus) and Centers. Topics covered include selection, design and installation of exhibitions; defining the mission of a gallery; public relations; and career opportunities. *Field trip may be required.*

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ART - Art

ART 064 Monotype/Monoprint

3.0 Units

Transferable to CSU

Hours: 32-36 lecture, 64-72 lab

A focus on the unique print. Study will include history and development of this form in relation to print tradition. Development of press skills in single-drop and multi-drop printing is required as well as a portfolio of printing techniques including direct, indirect and combination prints. *Field trip may be required.*

ART 074 Kiln Design and Operation **2.0 or 3.0 Units**

Course Advisory: ART 023 or ART 026 (one college level ceramics course)

Transferable to CSU

Hours: 16-36 lecture, 48-72 lab

Investigate into the vast range of kiln designs, their operation and the opportunities each offers for artistic expression. Kiln designs covered will include natural gas, propane, electric, raku, salt, wood, and alternative kilns. Students will be able to determine which kilns and which firing strategies are best suited to their current artistic vision. The course will not cover basic ceramic construction techniques. Students should already be familiar with basic hand building or wheel throwing techniques. Field trips may be required. Students who wish to transfer must enroll in the 3-unit section.

ART 075 Art Studio Concepts

2.0 or 3.0 Units

Transferable to CSU

Hours: 16-36 lecture, 48-72 lab

Intensive study in visual arts studio. Exposure to contemporary art directions, trends and selected topics. Different studio problems will be investigated each semester. Field trips may be required. Students who wish to transfer must enroll in the 3-unit section.

ART 076A

Portfolio Development - Artistic Inquiry

Transferable to CSU

Hours: 32-36 lecture, 64-72 lab

An advanced course designed to serve the student in the preparation of a professional fine art portfolio consisting of a body or series of work. Emphasis is placed on: individual expression of an artistic vision; idea development; artistic inquiry; and setting and meeting artistic goals and timelines for the production of a body or series of work. The student should have the necessary skills, art making experience and motivation to work independently, with expert consultation by the instructor, on developing a coherent body of work. This course is the first in a two part course offering completed by Portfolio Development-Documentation. Student should expect to incur materials and equipment costs typical of a studio art course. *Field trip may be required.*

ART 076B

3.0 Units

Portfolio Development - Documentation

Transferable to CSU

Hours: 32-36 lecture, 64-72 lab

An advanced course designed to serve the student in the preparation of a professional fine art portfolio consisting of a body or series of work. Emphasis is placed on: individual expression of an artistic vision; professional quality documentation and presentation of artwork; and capacity to communicate both verbally and in writing about artwork produced. The student should have the necessary skills, art making experience and motivation to work independently, with expert consultation by the instructor, on developing a coherent body of work. This course is the second in a two part course offering following Portfolio Development - Artistic Inquiry. Student should expect to incur materials and equipment costs typical of a studio art course. *Field trip may be required.*

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ART - Art

ART 077A Professional Practices for Artists 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Provides the skills and information to serve the student in developing a professional art career. Topics include: How to approach galleries, institutions, universities, art schools, and potential employers. Techniques for promoting art for employment or transfer to four year schools, portfolio preparation, resume writing, artist statement and biography composition, sales and pricing of art, business basics, entrepreneurship, public relations, art on the internet, planning and goal setting, contracts, taxes, grant getting, display, shipping, sustaining creativity. Evaluation of marketing and promotional concepts. Recommended for all art and design majors seeking to become professionals. Field trips may be required.

ART 077B Art on Site 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

A movable feast. In this course students will visit artists, gallery owners, museum curators and art administrators on site, at their studios, galleries museums and offices. This will be a forum for students to hear first hand from artists, arts scholars and other art professionals discussing and contextualizing their work within the contemporary art field. Includes multiple lecturers by visitors and additional class lectures providing further context. Exposure to contemporary art directions, trends and job markets. This course requires extensive field trips to destinations in the greater Sacramento and Bay Area.

ART 100 2.0 or 3.0 Units

Color and Mixed Media Drawing

Hours: 16-36 lecture, 48-72 lab

A focus on the use of a variety of drawing materials and techniques with special attention to color theory. Lectures, demonstrations and field study will supplement class assignments. *Field trip may be required.*

ART 145 Portrait Drawing and Painting 2.0 or 3.0 Units

Course Advisory: ART 014

Hours: 16-36 lecture, 48-72 lab

A multifaceted address of the representation of likeness portrait study. Includes anatomy and work with live models, self-portraits and portraits of others. Issues of gender, ethnic identity, youth and aging, stereotyping and caricature will be presented in historical and contemporary contexts. Portrait work will be explored in a variety of stylistic formats from observational likeness to expressionistic images to symbolic portraits. Work in a variety of media is required. *Field trip may be required.*

ARTD - Digital Art

ARTD 044 Introduction to Digital Design 3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Introduction to digital tools used for the theory, practice and production of graphic design. Principles of color, resolution, pixels, vectors, image enhancement, layout, visual hierarchy, and typography. Emphasis on creating content for industry standards, including compliance with print and web specifications, and professional practices for presentation and communication skills. (C-ID ARTS 250)

ARTD 047C Introduction to 3D Animation 3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 64-72 lab

Introduction to the theory, history and production of 3D animation using industry standard software. The traditional principles of animation are applied and translated to the computer generated 3D (CG 3D) environment.

ARTD 144A Design Bootcamp 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

An accelerated, in-depth course that covers the principles, practices and digital production of visual design. Topics covered include visual hierarchy, color, typography, composition, color theory, ideation, and professional practices within the industry.

ARTD 144B Adobe Illustrator Bootcamp 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

Bring your creative ideas to life with Adobe Illustrator, the industry-standard vector graphics software, used by designers and illustrators who want to create digital graphics, logos, illustrations, and original typography. This course is designed to get you up and running with Adobe Illustrator, using step-by-step instruction leading students through the most important tools and concepts in Illustrator.

ARTD 144C Adobe Photoshop Bootcamp 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

Take your Photoshop skills to the next level in this intensive, hands-on course. The focus will be on step-by-step instruction leading students through the most important tools and concepts in Photoshop. At the end of this intensive course, you will understand basic techniques for photo editing, as well as the use of Photoshop in graphic design.

ARTD 144D Deigital Illustration Bootcamp 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

Learn new new digital approaches to illustration in this fun, accessible class. We'll go over the basics of developing your personal style, review techniques, and learn how to conceptualize your ideas using industry-standard digital applications. Whether you're new to digital art or an experienced illustrator, you'll find new ways to make your ideas a reality.

ARTD 144E Portfolio and Publication Bootcamp 1.0 Unit

Course Advisory: ARTD 144A

Hours: 16-18 lecture, 8-9 lab

Build your brand, create a portfolio and learn the skills needed to create publications and marketing materials! This course will guide you through the core features and tools of industry-standard page-layout applications. You'll learn how to create layouts for books and graphic novels, set up a portfolio, and create interactive documents and forms.

ARTD 144F Animation Bootcamp 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

Animation Bootcamp introduces you to the art of animation. In this course, you'll learn the principles behind great animation, and how to apply them to your own work.

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ASL - American Sign Language

ASL 001 American Sign Language 1

3.0 Units

Transferable to UC/CSU

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2

Hours: 48-54 lecture.

Introduction to the culture and language of the deaf in this country. The course includes the acquisition of Fingerspelling skills and basic functional vocabulary of ASL. In addition to fluency in these two separate skills, the student will acquire basic knowledge of ASL syntax and nonverbal aspects of ASL, a history of the deaf in the country and deaf education, variations in Manual Communication, and the Culture of the Deaf. There will be both written and signed examinations, a research project, homework assignments, and individual examinations to demonstrate competency in both expressive and receptive ASL. Students will be expected to acquire a vocabulary of approximately 500 words (signs) and be proficient in Fingerspelling.

ASL 002 American Sign Language 2

3.0 Units

*Prerequisite**:* ASL 001

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Emphasis on vocabulary expansion, introduction to ASL idiomatic expressions and information regarding the ethics and process of becoming a sign language interpreter. Assessment of competency is accomplished through written and communicative examinations. Some interaction with the deaf population is required.

ASL 003 American Sign Language 3

3.0 Units

*Prerequisite**:* ASL 002

General Education: IGETC: Area 6; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A focus on the grammatical structure of American Sign Language and how it has been influenced throughout history, by society, and other cultures in America. Students will develop their vocabulary, not through rote memorization, but through emphasis on receptive and expressive modes of communication; they will learn how to develop their own styles.

ASL 004 American Sign Language 4

3.0 Units

*Prerequisite**:* ASL 003

General Education: IGETC: Area 6

Transferable to UC/CSU

Hours: 48-54 lecture

An advanced course designed to increase vocabulary, examine the use of semantic and body classifiers, expand and develop conversational signing ability through the use of appropriate grammar structures and storytelling. Popular Deaf culture stories are learned through the development of storytelling techniques. The rich heritage of Deaf people is studied through biographies of those who are famous for their contribution.

ASL 005 American Deaf Culture

3.0 Units

General Education: IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Exploration of American Deaf Culture with historical and cultural overview of the American Deaf community and its language, American Sign Language (ASL). Fundamental sociological and anthropological theories will be discussed. Students will be given an opportunity to study and understand the following: minority group dynamics, attitudes and behavioral characteristics of the oppressed and oppressors, and the liberation movements. Analysis of the relationship of ASL to the history of the American Deaf community will be conducted.

ASL 006

3.0 Units

Linguistics of American Sign Language

*Prerequisite**:* ASL 002

General Education: CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Applies knowledge of linguistics (e.g., phonetics, phonology, syntax, semantics) to signed languages, especially ASL. Students will learn about aspects of the language that are specific to signing, such as using three-dimensional space as grammatical tools. Students will compare ASL to other signed languages to further explore how these linguistic aspects differ between signed languages.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

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ASL - American Sign Language

ASL 052

3.0 Units

Fingerspelling, Classifiers, and Numbers

*Prerequisite**:* ASL 001 (may enroll concurrently)

Transferable to CSU

Hours: 48-54 lecture

Solidifies fingerspelling, numbers, and classifiers to the point where they can reliably be leveraged in an expressive and receptive manner. The focus of the course is on recognition and use of fingerspelling, numbers, and classifiers in different contexts.

ASL 053

3.0 Units

Introduction to American Sign Language Interpreting

*Prerequisite**:* ASL 002

Transferable to CSU

Hours: 48-54 lecture

Introduction to professional conduct, variety of interpreter work settings, and interactions with the populations served.

ASL 054 ASL Interpreting Field Work

2.0 Units

*Prerequisite**:* ASL 003

Corequisite: OCED 090

Transferable to CSU

Hours: 32-36 lecture

Prepares students for the profession of ASL interpreting by providing field work in which students can observe different scenarios and apply skills learned in the classroom. Weekly seminars will explore how ASL interpreters learn discourse mapping, a systematic approach for analyzing texts to produce successful, effective interpretations. Through a co-requisite of OCED 090 students will work in a real world environment to practice the techniques discussed in class.

ASL 055

3.0 Units

Interpreting 1: Consecutive Interpreting

*Prerequisite**:* ASL 053

Transferable to CSU

Hours: 48-54 lecture

Building and improving basic receptive and expressive sign language interpretation skills emphasizing the development of consecutive ASL to English and English to ASL.

ASL 056

3.0 Units

Interpreting 2: Simultaneous Interpreting

*Prerequisite**:* ASL 053

Transferable to CSU

Hours: 48-54 lecture

Advanced simultaneous interpreting skills that can be applied in both ASL to English and English to ASL interpretation. Topics include: research and analysis of the simultaneous interpreting process, interpreting models and how to apply them in various work environments, and the basis of ethical decision making within the field of sign language interpreting.

ASTR - Astronomy

ASTR 010 General Astronomy

3.0 Units

*General Education: SCC: Area A; IGETC: Area 5A; CSU: C: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture*

An introductory study of the universe, including the properties and evolution of galaxies, stars, pulsars, black holes, quasars, the sun, planets and life in the universe. *Field trip may be required.*

ASTR 020 Astronomy Laboratory

1.0 Unit

*Prerequisite**:* A minimum grade of D in ASTR 010, ASTR 030, ASTR 040 or ASTR 045 (courses may be taken concurrently)
*General Education: IGETC: Area 5C; CSU: Area B3
Transferable to UC/CSU
Hours: 48-54 lab*

A familiarization with the sky, telescopes, and other astronomical equipment. Students will conduct experiments in physics related to astronomy. Topics will cover the moon, planets, stars, galaxies, and cosmology. *Field trip may be required.*

ASTR 030 The Solar System

3.0 Units

*General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture*

An introductory study of solar system astronomy, the physics related to that astronomy, the planets and their moons, the sun, solar system debris, and the possibility of extraterrestrial life. *Field trip may be required.*

ASTR 040 Stars, Galaxies, and Cosmology

3.0 Units

*General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture*

An introductory study of stars, galaxies, the universe, and the physics related to these topics. Including an examination of the facts relating to the sun, stellar lifetimes, supernovae, black holes, and cosmology. *Field trip may be required.*

ASTR 045

Introduction to Astrobiology and the Search for Life in the Universe

3.0 Units

*General Education: IGETC: Area 5A; CSU: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture*

An exploration of the possibility of life beyond the Earth. Topics include the origin and evolution of life on Earth, the formation of Earth and other planets in the solar system, the likelihood of life existing on other planets or moons within our solar system, attempts to locate life within our solar system and attempts to communicate with intelligent life in other parts of the galaxy.

ASTR 049 Astronomy Honors

1.0 to 3.0 Units

*Prerequisite**:* ASTR 020 or ASTR 045 and an ability to work independently; permission of the School Dean based on instructor availability.

*Transferable to CSU
Hours: 48-144 lab*

Universities and research laboratories across the country critically depend on ordinary citizens to collect the data that they need for their research projects. These people are known as "Citizen Scientists". In this course students will contribute to a current Citizen Science research project in Astronomy. This project requires the approval of a faculty member sponsor.

ASTR 050 Astronomical Optics

1.0 Unit

Course Advisory: A minimum grade of B in ASTR 030 or ASTR 040; A minimum grade of C in MATH 104

*Transferable to CSU
Hours: 48-54 lab*

An introduction to principles of astronomical optics. The student will apply these principles to the design, fabrication, and use of a telescope, which will be tested under the night sky. Primary mirrors will be ground, smoothed, polished, and figured by hand. Optics and optical testing theories will be presented. Students will design and build a custom optical tube assembly and telescope mount. *A field trip to test the finished telescope will be required.*

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ATEC - Automotive Technology

ATEC 070 Automotive Fundamentals

3.0 Units

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Provides the knowledge and skills needed to prepare students for entry into the automotive core curriculum. The study of automotive industry fundamentals including careers, safety, fasteners, hand tool identification and usage, vehicle systems, electrical fundamentals, service information access and use, automotive chemical and fluid applications, hazardous waste handling, general shop equipment usage, and vehicle servicing. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will in part prepare the student for the ASE Maintenance and Light Repair G1 Certification Examination.

ATEC 130

4.0 Units

Automotive Suspension and Steering

*Prerequisite**:* ATEC 070 (may enroll concurrently)

Course Advisory: ATEC 131

Hours: 32-36 lecture, 96-108 lab

The study of automotive suspension and steering fundamentals including: Diagnosis, inspection, repair, and adjustment of modern automotive steering, suspension, supplemental restraint, tire pressure monitoring, and alignment systems. Theory of operation, common automotive steering and suspension systems, wheel alignment principles, methods of diagnosis, adjustment and repair, and the use of suspension service equipment will be covered. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will in part prepare the student for the ASE Suspension and Steering A4 Certification Examination.

ATEC 131 Automotive Electrical Systems

4.0 Units

*Prerequisite**:* ATEC 070 (may enroll concurrently)

Hours: 32-36 lecture, 96-108 lab

Theory and principles of automotive electrical systems including basic electrical theory, Ohm's Law, series and parallel circuits, electrical symbols and schematics, automotive batteries, charging systems, voltage regulation, starting systems, lighting systems, and various accessory systems. Laboratory will place emphasis on diagnosis and testing techniques required to effectively determine the necessary action in an electrical system failure. Use of schematics, technical specifications, voltmeters, ohmmeters, ammeters, and circuit testers will be required. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will in part prepare the student for the ASE Electrical / Electronic A6 Certification Examination.

ATEC 132 Automotive Brake Systems

4.0 Units

*Prerequisite**:* ATEC 070 (may enroll concurrently)

Course Advisory: ATEC 131

Hours: 32-36 lecture, 96-108 lab.

The study of modern automotive braking systems. Hydraulic principles, coefficients of friction, and thermodynamics will be discussed. Diagnosis, repair, overhaul, and adjustment procedures of drum, disc/drum, and four-wheel disc systems will be emphasized. Anti-lock Braking Systems (ABS) diagnostics, servicing, and repair procedures will also be covered. The course will cover common domestic and import passenger vehicles, and light trucks only. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Brakes A5 Certification Examination.

ATEC 133 Automotive Engine Repair

4.0 Units

*Prerequisite**:* ATEC 070 (may enroll concurrently)

Course Advisory: ATEC 131

Hours: 32-36 lecture, 96-108 lab

The study of four stroke combustion cycle theory, engine torque, horsepower, materials, and manufacturing processes as they relate to internal combustion powerplants used in production automobiles and light trucks. The theory, principles, and diagnosis of cooling systems, lubrication systems, and common engine mechanical failures will be emphasized. Laboratory will focus on comprehensive engine testing, in-vehicle engine servicing, engine disassembly/reassembly, precision measuring, and inspection of internal engine components. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Engine Repair A1 Certification Examination.

ATEC 134

4.0 Units

Automatic Transmissions/Transaxles

*Prerequisite**:* ATEC 070 (may enroll concurrently).

Course Advisory: ATEC 131

Hours: 32-36 lecture, 96-108 lab.

The study of hydraulic and electronically actuated automatic transmissions and transaxles. Topics will include positive and variable displacement pumps, torque converters, bands and clutches, hydraulic valves, electronic shift solenoids, governors, and common compound planetary gear arrangements. Laboratory will focus on diagnostic and overhaul procedures, in-vehicle testing, and bench testing of various components. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Automatic Transmission A2 Certification Examination.

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ATEC - Automotive Technology

ATEC 135 Automotive Engine Performance 4.0 Units

*Prerequisite**:* ATEC 070 (may enroll concurrently)

Course Advisory: ATEC 131

Hours: 32-36 lecture, 96-108 lab

Operation, troubleshooting and repair of the ignition, fuel and emission control systems of import and domestic passenger vehicles and light trucks. Emphasis is on theoretical knowledge and the proper use of diagnostic tools and equipment. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently, will in part, prepare the student for the ASE Engine Performance A8 Certification Examination.

ATEC 136 Automotive Manual Drivetrain and Axles 4.0 Units

*Prerequisite**:* ATEC 070 (may enroll concurrently)

Hours: 32-36 lecture, 96-108 lab

Theory and principles of manual transmissions/transaxles, clutches, driveshafts, half shafts, variable and constant velocity joints, differentials, rear wheel drive axle assemblies, all wheel drives, and four wheel drives. Gear types, ratios, and noise, vibration, harshness diagnostic routines will be discussed. Diagnosis, repair, overhaul, and adjustment procedures for common domestic, import, and light truck drivetrain components will be emphasized. The course is designed in conjunction with Automotive Service Excellence (ASE) standards and subsequently will prepare the student for the ASE Manual Transmission/Transaxle & Drivetrain A3 Certification Examination.

ATEC 148A Special Topics-Smog Check Level I 2.5 Units

Hours: 32-36 lecture, 32-36 lab

The Engine and Emission Control Training is intended to provide students with fundamental knowledge of engine and emission control theory, design and operation. Students who successfully complete this training will have met the first step of the Bureau of Automotive Repair's training requirements for inexperienced or minimally experienced candidates for the Smog Check Inspector license. The training is a minimum of 68 hours and must be completed at a Bureau of Automotive Repair (BAR) certified school. To pass Level 1 training, a student must successfully complete a series of hands-on assessments and pass a written examination. Experienced candidates may skip Level 1 training if they: Possess ASE A6, A8 and L1 certification; or possess an AA/AS Degree or Certificate in automotive technology and have 1 year experience; or have 2 years experience and have completed BAR specified diagnostic and repair training.

ATEC 148B

Special Topics - Smog Check Level II

*Prerequisite**:* ATEC 148A

Hours: 16-18 lecture, 8-9 lab

Level 2 - Smog Check Procedures Training. This training provides students the procedural knowledge, skills, and abilities needed to perform Smog Check inspections. This training is a minimum of 28 hours and must be completed at a BAR-certified school. The Smog Check Procedures Training must be completed by all Inspector candidates. To pass Level 2 training, a student must successfully complete a series of hands-on assessments and pass a written examination. Students who complete and pass this training will have met the Bureau's training requirements to qualify to take the Smog Check Inspector state licensing examination.

1.0 Unit

ATEC 150 Automotive Data Acquisition 2.0 Units

Hours: 32-36 lecture

Provides an understanding of OASIS (Online Automotive Service Information Systems) and the skills needed to adequately retrieve and apply automotive data, service procedures, and technical service bulletins. Includes the preparation of computer based repair orders and calculating repair estimates using web based service information providers.

ATEC 151 Automotive Parts and Service 3.0 Units

Hours: 32-36 lecture. 48-54 lab.

An introduction to the skills and knowledge utilized in the field of automotive parts and service consulting. This course offers preparation for the Automotive Service Excellence (ASE) C-1 and P-1 exam and certification. Topics include flow chart/diagnostic chart interpretation, parts removal/replacement, small group communication, and small business operations related to the automotive industry.

3.0 Units

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ATHL - Intercollegiate Athletics

ATHL 001

3.0 Units

Women's Intercollegiate Volleyball (Fall)

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC

Hours: 160-180 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate volleyball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times.*

ATHL 001A

2.5 Units

Off-Season Intercollegiate Volleyball Conditioning

Prerequisite**: Athletic Tryout & Team Selection

Course Advisory: High School and competitive experience

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 128-144 lab

A comprehensive course designed for the student-athlete covering intercollegiate volleyball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for non-traditional competition. *Repeatable 3 times.*

ATHL 001B

1.0 Unit

Pre-season Intercollegiate Volleyball

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

A comprehensive course designed for the intercollegiate student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of each student-athlete participating in intercollegiate volleyball. The course will focus on learning and execution of fitness/conditioning parameters as well as pre and post tests on volleyball skills. *Repeatable 3 times.*

ATHL 002A

1.0 Unit

Women's Intercollegiate Basketball (Fall)

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 64-72 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times.*

ATHL 002B

2.0 Units

Women's Intercollegiate Basketball (Spring)

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC

Hours: 96-108 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times.*

ATHL 002C

1.0 Unit

Off-Season Intercollegiate Basketball Conditioning

Prerequisite**: Athletic Tryout & Team Selection

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

A comprehensive course designed for the intercollegiate basketball student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of basketball. The course will focus on fitness/conditioning as well as basketball specific movements. *Repeatable 3 times.*

ATHL 002D

0.5 Unit

Intercollegiate Basketball Conditioning

Prerequisite**: Athletic Tryout & Team Selection

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 24-27 lab

A comprehensive course designed for the intercollegiate basketball student-athlete. The course focus is on continuing to develop fundamental basketball skills. The course includes offensive and defensive concepts, skill acquisition, and fitness development specific to basketball. *Repeatable 3 times.*

ATHL 002E

1.5 Units

Pre-Season Intercollegiate Basketball Conditioning

Prerequisite**: Athletic Tryout & Team Selection

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 84-94.5 lab

A comprehensive course designed for the intercollegiate basketball student-athlete. The course focus is on developing fundamental basketball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness and mental preparation for competition. *Repeatable 3 times.*

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ATHL - Intercollegiate Athletics

ATHL 003 Intercollegiate Softball (Women) 3.0 Units

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC*
Hours: 160-180 lab

A comprehensive course designed for the student-athlete covering advanced softball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times.*

ATHL 003A 3.0 Units

Off-Season Intercollegiate Softball Conditioning

*Prerequisite**:* Athletic Tryout & Team Selection

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*
Hours: 144-162 lab

A comprehensive course covering fundamental softball skills designed to develop the off-season student-athlete. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times.*

ATHL 003B 0.5 Unit

Pre-Season Intercollegiate Softball Conditioning

*Prerequisite**:* Athletic Tryout & Team Selection

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*
Hours: 24-27 lab

A comprehensive course designed for the intercollegiate softball student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of softball. The course will focus on fitness/conditioning as well as sport-specific movements in preparation for the start of the collegiate season of competition. *Repeatable 3 times.*

ATHL 004 3.0 Units

Women's Intercollegiate Soccer (Fall)

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*
Hours: 160-180 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate soccer skills. The course includes the theories and analysis of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparations for competition. *Repeatable 3 times.*

ATHL 004A 1.5 Units

Off-Season Intercollegiate Women's Soccer

Course Advisory: Higher level soccer playing experience such as high school and/or club level.

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*
Hours: 80-90 lab

A comprehensive course designed for the student-athlete covering intercollegiate soccer skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for non-traditional competition. *Repeatable 3 times.*

ATHL 004B 1.5 Units

Pre-season Women's Intercollegiate Soccer

*Prerequisite**:* Athletic Tryout and Team Selection

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*
Hours: 80-90 lab

A comprehensive course designed to develop the pre-season student athlete covering fundamental soccer skills. This is a course designed for the intercollegiate student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of each student-athlete participating in intercollegiate soccer. The course will focus on learning and execution of fitness/conditioning parameters as well as pre and post tests on soccer skills. *Repeatable 3 times.*

ATHL 010 3.0 Units

Men's and Women's Intercollegiate Swimming and Diving

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC*
Hours: 160-180 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate swimming and diving skills. The course includes theories and analyses of skill acquisition, development of fitness skills and mental preparation for competition. *Repeatable 3 times.*

ATHL 010A Off-Season Swimming & Diving 2.0 Units

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*
Hours: 96-108 lab

A comprehensive course designed for the student athlete covering intercollegiate swimming and diving skills. The course includes the theories and analyses of stroke technique and racing and diving strategies, skill acquisition, development of fitness and conditioning and mental preparation for non-traditional competition. *Repeatable 3 times.*

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ATHL - Intercollegiate Athletics

ATHL 010B Pre-Season Swimming & Diving 0.5 Units

*General Education: SCC: Local District Requirement, *A*

Transferable to UC/CSU

Hours: 24-27 lab

A comprehensive course focused on the continued development and enhancement of physical performance and maintenance of the level required for competitive swimming and diving. The course includes the theories and analyses of stroke technique and racing and diving strategies, skill acquisition, development of fitness and conditioning and mental preparation for the season of competition.

Repeatable 3 times.

ATHL 015 Men's Intercollegiate Baseball 3.0 Units

*General Education: SCC: Local District Requirement, *A; CSU: Area E*

Transferable to UC

Hours: 160-180 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate baseball skills. The course includes the theories and analyses of offensive and defensive strategies, skill acquisition, development of fitness skills and mental preparation for competition. Repeatable 3 times.

ATHL 015A 3.0 Units

Off-Season Intercollegiate Baseball Conditioning

*Prerequisite**:* Athletic Tryout & Team Selection

*General Education: SCC: Local District Requirement, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 144-162 lab

A comprehensive course covering fundamental baseball skills designed to develop the off-season student athlete. The course includes the theories and analyses of hitting, pitching, and defensive strategies, skill acquisition, development of fitness skills, and mental preparation for competition.

Repeatable 3 times.

ATHL 015B 0.5 Unit

Pre-Season Intercollegiate Baseball

*Prerequisite**:* Athletic Tryout & Team Selection

*General Education: SCC: Local District Requirement, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 24-27 lab

A comprehensive course designed for the intercollegiate baseball student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of baseball. The course will focus on fitness/conditioning as well as sport specific movements in preparation for the start of the collegiate season of competition. *Repeatable 3 times.*

ATHL 016A 1.0 Unit

Men's Intercollegiate Basketball (Fall)

*General Education: SCC: Local District Requirement, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 64-72 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times.*

ATHL 016B 2.0 Units

Men's Intercollegiate Basketball (Spring)

*General Education: SCC: Local District Requirement, *A; CSU: Area E*

Transferable to UC

Hours: 96-108 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate basketball skills. The course includes the theories and analyses of offensive and defensive strategies, acquisition and development of physical skills, and mental preparation for competition. *Repeatable 3 times.*

ATHL 022 Intercollegiate Tennis 3.0 Units

*Prerequisite**:* Athletic Tryout & Team Selection

*General Education: SCC: Local District Requirement, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 160-180 lab

A comprehensive course designed for the student-athlete covering advanced intercollegiate tennis skills. The course includes the four pillars of the game: mental, physical, tactical, and technical facets. Includes a global and historical examination of the sport, rules, equipment, facilities, and etiquette. Through the intercollegiate competitive experience students will improve their individual tennis skills, increase their ability to employ advanced strategies and increase their knowledge of physical training, nutrition, and biomechanics underlying the development of force, power and accuracy. Day and/or overnight travel will be required. *Repeatable 3 times.*

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ATHL - Intercollegiate Athletics

ATHL 022A

3.0 Units

Off-Season Intercollegiate Tennis Conditioning

*Prerequisite**:* Athletic Tryout & Team Selection

Course Advisory: Advanced tennis skills and/or competitive experience at the high school or tennis club level

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 144-162 lab

A comprehensive pre-season course designed to help the tennis student-athlete to develop and practice skills. This course includes mental, physical, tactical and technical facets of the game of tennis. The course includes theories and analyses of offensive and defensive strategies, skill acquisition and sport specific fitness. *Repeatable 3 times.*

ATHL 022B

0.5 Unit

Pre-Season Intercollegiate Tennis Conditioning

*Prerequisite**:* Athletic Tryout & Team Selection

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 24-27 lab

A comprehensive course designed for the intercollegiate tennis student-athlete. The course focus is on continued development and enhancement of physical performance and maintenance level required of tennis. The course will focus on fitness/conditioning as well as sport specific movements in preparation for the start of the collegiate season of competition. *Repeatable 3 times.*

ATHL 025

1.0-1.5 Unit

In-Season Intercollegiate Conditioning

Corequisite: Course is for Intercollegiate student athletes, must enroll in

both ATHL (team course) and ATHL 020 in the same season. Each

Sport has their own ATHL ____ (#). Take ATHL course that is represented with course of study

General Education: SCC: Local District Requirement, *A; CSU: Area E

Hours: 48-54 or 72-81 lab

A comprehensive course designed for the intercollegiate student athlete. The course focus is on continued development and enhancement of physical performance and maintenance in intercollegiate sports. The course will focus on learning and execution of fitness/conditioning parameters as well as pre- and post-test. Students will analyze advanced offensive and defensive strategies. *Repeatable 3 times.*

ATHL 050A Beginning Peak Performance

1.0 Unit

General Education: SCC: Local District Requirement; CSU: Area E

Hours: 48-54 lab

Exploration of the cognitive, social, and physiological factors influencing peak performance in sport. Students will learn and apply optimal performance techniques for optimizing sport performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration.

ATHL 050B Intermediate Peak Performance

1.0 Unit

*Prerequisite**:* ATHL 050A

General Education: SCC: Local District Requirement; CSU: Area E

Hours: 48-54 lab

The continued exploration of the cognitive, social, and physiological factors influencing peak performance in students who have taken Beginning Peak Performance. Students will expand and apply more advanced levels of performance techniques for optimizing sport performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration. Students will progress to more advanced levels by applying the mental skills in competitive games and customizing individual mental skills programs that apply to individual sport specific competition.

BIO - Biology

BIO 002 Cell and Molecular Biology

5.0 Units

*Prerequisite**:* CHEM 001

General Education: SCC: Area A; IGETC: Area 5B, 5C; CSU: Area B2, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 96-108 lab

This course, intended for biology majors, covers the structure and function of prokaryotic and eukaryotic cells, biological molecules, cell reproduction and its controls. Mendelian and molecular genetics, cell physiology and the metabolism including cellular respiration and photosynthesis, cellular communication, and homeostasis. An extensive laboratory component teaches the techniques used in biotechnology to manipulate DNA and to study proteins. (C-ID BIOL 190)

BIO 003 Evolution, Ecology & Biodiversity

5.0 Units

*Prerequisite**:* BIO 002

General Education: SCC: Area A; CSU: Area B2, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 96-108 lab

This course, intended for biology majors, covers evolution, ecology, and the diversity of life. Laboratory includes invertebrate and vertebrate dissection and several weekend and all day field trips. Students must successfully complete both the lecture and the laboratory portions of the course. Field trips may be required with some involving a fee. (C-ID BIOL 140)

BIO 004 Human Anatomy

5.0 Units

Course Advisory: BIO 016 and BIO 016L strongly recommended

General Education: SCC: Area A; IGETC: Area 5B, 5C; CSU: Area B2, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 96-108 lab

A study of the structural organization of the human body, from cellular to organismal level. Throughout the course, various types of instruction are used, including microscopic investigation of prepared slides of tissues and organs, gross (macroscopic) anatomical dissection, and examination of prosected human material. (C-ID BIOL 110B)

BIO 005 Human Physiology

5.0 Units

*Prerequisite**:* BIO 004 and CHEM 001, CHEM 010 or CHEM 012

General Education: SCC: Area A; IGETC: Area 5B, 5C; CSU: Area B2, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 96-108 lab

A description of physiological and homeostatic mechanisms of the body systems in health and disease. The laboratory relates structure to function, uses instrumentation to measure physiological variables, and enables students to critically evaluate functional status. (C-ID BIOL 120B)

BIO 012 Environmental Science

3.0 Units

General Education: SCC: Area A; IGETC: Area 5B; CSU: Area B2

Transferable to UC/CSU

Hours: 48-54 lecture

Examines environmental issues from a scientific perspective by using an understanding of the physical, chemical, and biological processes of the Earth system to examine the interaction between humans and these processes. Topics include ecological principles, biodiversity, human population growth, climate change, air and water pollution, solid waste management, and the management of renewable and non-renewable energy, water, land, soil, and mineral resources. The course utilizes knowledge of these subject to find solutions to environmental challenges. Field trips may be required.

BIO 012L Environmental Science Laboratory

1.5 Units

*Prerequisite**:* BIO 012 with a minimum grade of D (may enroll concurrently)

General Education: IGETC: Area 5C; CSU: Area B3

Transferable to UC/CSU

Hours: 8-9 lecture, 48-54 lab

Examine the ecological roles of organisms, resource use, and pollution/waste by using laboratory and mandatory field trip techniques. Field trips may be required.

BIO 014 Principles of Microbiology

4.0 Units

*Prerequisite**:* CHEM 001, CHEM 010, or CHEM 012

General Education: SCC: Area A; IGETC: Area 5B, 5C; CSU: Area B2, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

The study of the morphology, physiology, genetics, taxonomy, and ecology of microorganisms. The course also includes principles of immunology, the control of microbes, and their relationship to disease. Laboratory exercises cover microscopy, staining, aseptic techniques, identification, and microbial growth among others.

BIO 015 Introduction to Biology

4.0 Units

General Education: SCC: Area A; IGETC: Area 5B, 5C; CSU: Area B2, B3

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

Intended for non-science majors, a survey of biology including biological chemistry, cell structure and function, genetics, evolution, and ecology. The laboratory component emphasizes the scientific method to reinforce lecture concepts. Off-campus field trips may be scheduled. NOTE: Not open for credit to students who have completed BIO 003.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

BIO - Biology

BIO 016 Introduction to Human Biology 3.0 Units

General Education: SCC: Area A; IGETC: Area 5B; CSU: Area B2
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to general biology with emphasis on the human model. Topics include cell structure and function, human evolution, anatomy and physiology, genetics, and the human impact on the environment. This is a course for non-majors. NOTE: Not open for credit to students who have completed BIO 001, 002, 004, 005, 010 or 015.

BIO 016L Human Biology Laboratory 1.5 Units

*Prerequisite**:* BIO 016 (may enroll concurrently)
General Education: IGETC: Area 5C; CSU: Area B3
Transferable to UC/CSU
Hours: 8-9 lecture, 48-54 lab

An introduction to general biology with an emphasis on the human model. Topics include microscopy, cell structure and function, human anatomy and physiology, genetics and the human impact on the environment. Off-campus field trips may be required and may involve a fee. This course is for non-majors. Note: Not open for credit to students who have completed BIO 002, 003, 004, 005 or 015.

BIO 018 Biology Of Sex 3.0 Units

General Education: SCC: Area A; IGETC: Area 5B; CSU: Area B2, E
Transferable to UC/CSU
Hours: 48-54 lecture

The biological bases of human sex and sexuality will be discussed. Emphasis will be placed on the normal and diseased state of the male and female reproductive system. Essay and objective exams as well as written assignments will be used for student evaluations; the final exam will be comprehensive.

BIO 019 Marine Biology 4.0 Units

General Education: SCC: Area A; IGETC: Area 5B, 5C; CSU: Area B2, B3
Transferable to UC/CSU
Hours: 48-54 lecture, 48-54 lab

The study of the diversity and natural history of life in the marine environment with an emphasis on the adaptations of organisms to their environment. Students must successfully complete both the lecture and laboratory portions of the course. Field trips may be required. Some field trips may involve a fee. This course is for non-majors. NOTE: This course is not open for credit to students who have completed BIO 001 or 002.

BIO 020 3.0 Units

Infectious Disease, Plagues, and Public Health

General Education: SCC: Area A; IGETC: Area 5B; CSU: Area B2
Transferable to UC/CSU
Hours: 48-54 lecture

Examine infectious disease and the changing disease landscape from the molecular to the ecological level. Topics include cell structure and function, microorganisms, immunity, epidemiology, historical plagues, emerging diseases, prevention and treatment, and conditions that promote novel disease emergence. This is a course designed for non-science majors.

BIO 025 Human Genetics 3.0 Units

General Education: SCC: Area A; IGETC: Area 5B; CSU: Area B2
Transferable to UC/CSU
Hours: 48-54 lecture

Provides an understanding of basic principles of genetics, current developments in genetics, and the influence of genes and the environment in determining human characteristics. This course is for non-science majors.

BIO 047 Independent Study 0.5 to 3.0 Units

*Prerequisite**:* A minimum grade of C in 12.0 Units of credit, including 4.0 Units from within the discipline

Course Advisory: MATH 011 may be useful for data analysis
Transferable to CSU
Hours: 48-162 lab by arrangement

Designed for students who intend to major in biological sciences or pre-professional programs. Students may take this course up to the maximum number of units over multiple semesters.

BIO 049 Biology Honors 1.0 to 3.0 Units

*Prerequisite**:* Eligibility for Honors Program; BIO 001, BIO 002, BIO 005, BIO 014, or BIO 015 (any of these courses may be taken concurrently).

Transferable to CSU
Hours: 24-162 lab by arrangement

Requires approval of a faculty member sponsor and the Dean of the School of Science and Mathematics. Requires students to complete an independent student project under the supervision of a member of the faculty. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. Students may take this course up to the maximum number of units over multiple semesters.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

BIO - Biology

BIO 099

Biology Honors: Special Dissection

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.3; BIO 004 with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.

Transferable to CSU

Hours: 24-108 lab by arrangement

An independent study project designed to increase understanding of human anatomy through detailed dissection and other projects assigned by the supervising instructor. The student will be evaluated through oral examination and evaluation of dissections. This course is an Open Entry/Open Exit course. Students may continue BIO 099 over multiple semesters not to exceed 2.0 units.

BIO 101 How to Study Science

0.5 Units

Hours: 8-9 lab

A step-by-step approach for success in transferable science courses. Topics include: overcoming science anxiety; learning how science courses are organized; how best to learn and retain scientific information; how to use science textbooks, common scientific terms, and symbols; how to analyze figures; how to develop test-taking skills to prepare for lecture and laboratory tests; and more.

0.5 to 2.0 Units

BIO 160

Review of Scientific Principles of Pre-Nursing

*Prerequisite**:* Current acceptance or on the waiting list of an RN Program.

Hours: 40-45 lecture.

A focus on science and mathematics topics that are critical to success for students entering an RN program. Providing a clinically pertinent review of select anatomy, physiology, nutrition, and microbiology topics for students entering nursing school. Especially designed for students that have had an extended time period between finishing their pre-nursing requirements and entering nursing school. This course is taught by a panel of experts in the field. Case studies are extensively used in order to contextualize the material. This is a Pass/No Pass only course.

2.5 Units

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BIOT - Biotechnology

BIOT 001 Principles of Biotechnology

*Prerequisite**:* BIO 014, BIO 002 or BIOT 160

General Education: IGETC: Area 5B; CSU: Area B2

Transferable to UC/CSU

Hours: 48-54 lecture

Covering topics important in the development, production, recovery, and analysis of products produced by biotechnology. The course traces the path of a drug or biologic from the cell through the production facility, the final processing, and into the human body. It discusses the growth characteristics of the organisms used to produce pharmaceutical proteins, the techniques used in product recovery, and the techniques used in product analysis. Formerly BIOT 051. (C-ID BIOT 101X)

3.0 Units

BIOT 003

Fermentation: The Science of Beer and Brewing

*Prerequisite**:* Must be at least 18 years of age to enroll

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Beer making, the oldest biotechnology process, is used to introduce students to the concept of employing living cells to produce a value-added product. The course utilizes brewing principles to explore basic scientific, agricultural, and engineering principles: yeast cell structure and growth, cellular biochemistry including metabolism and fermentation, plant physiology and the agricultural practices used to grow different varieties of barley and hops, the biochemistry of malted barley and hops, the chemical reactions that occur during mashing and brewing, and the basic engineering of brewing equipment and processes. The course also covers business, regulatory, and cultural issues related to brewing. In the laboratory, students will brew beer using modern techniques and equipment. This class is limited to students 18 and over and no one under the age of 21 will be able to taste a fermented product.

3.0 Units

BIOT 010

Introductory Biotechnology

Hours: 48-54 lecture, 48-54 lab

An application of biological principles as they relate to the field of biotechnology that applies these principles to produce products, especially medicines. Topics include the fundamental chemical processes common in prokaryotic and eukaryotic organisms, the structure and function of biological molecules (proteins, enzymes, nucleic acids, and lipids), principles of cellular and molecular biology, basic immunology, and classical and molecular genetics with an emphasis on gene expression and genetic engineering. The laboratory addresses the core skills and techniques common to the biotechnology industry. This course is intended for students exploring a major in Biotechnology and as a general education option for all students.

4.0 Units

BIOT 052

Business, Regulatory, and Quality Practices in Biotechnology

Transferable to CSU

Hours: 48-54 lecture

Examine how basic business principles and sound manufacturing procedures assure the quality and safety of a biopharmaceutical as the manufacturing team moves a product down the biotechnology production pipeline. The course explores the role of governmental oversight, Quality Assurance practices, and regulation during the discovery, development, and manufacturing of new products produced by biotechnology. The course includes a discussion of current Good Manufacturing Practices, Good Laboratory Practices, Quality Assurance, Quality Control, and Validation.

3.0 Units

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BIOT - Biotechnology

BIOT 057

Synthetic Biology and Algae Biotechnology

*Prerequisite***: BIO 002 or BIO 014

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Combines two emerging areas in biotechnology through exploration of advances in synthetic biology and algae biotechnology. Synthetic biology applies advanced gene editing techniques for the creation of new organisms. Topics include synthetic DNA synthesis, minimal cells, manipulation of biobricks, gene circuits, CRISPR/Cas and other gene editing tools, and cell free production. These techniques can be utilized to produce biomaterials, DNA for gene therapy, and algae bio-based production. Students isolate, identify, manipulate, grow, monitor, and harvest algae for biofuels, nutraceuticals, industrial enzymes, and therapeutic proteins in the laboratory.

3.0 Units

BIOT 062 Cell Culture and Protein Recovery 4.0 Units

*Prerequisite***: BIO 002, BIO 014 or BIOT 160

Transferable to CSU

Hours: 32-36 lecture, 96-108 lab

This laboratory course teaches the skills needed to serve as a technician in biotechnology production. Students grow and monitor bacterial, yeast, and mammalian cells on a laboratory scale that emulates the large-scale production used in industry. Students will become familiar with the cleaning, sterilization, aseptic inoculation, operation, and monitoring of fermenters and bioreactors. Students then recover and purify proteins produced by those cell cultures. They recover and purify proteins using centrifugation, ultrafiltration, and chromatography techniques. The course emphasizes the use of current Good Manufacturing Practices (cGMP), and students gain experience following Standard Operating Procedures (SOP).

BIOT 060

Mammalian Cell Culture

*Prerequisite***: BIO 002 or BIO 014

Transferable to CSU

Hours: 16-18 lecture, 96-108 lab

Lab-intensive course on mammalian cell culture techniques that include working under aseptic conditions, sterile techniques in a biosafety cabinet (laminar flow hood), media preparation, quantification and passage of cells, and cryopreservation of cell lines. Laboratory experience prepares students for work in industry. Students may be required to perform laboratory tasks outside of class hours to care for cells.

3.0 Units

BIOT 063 Biotechnology Instrumentation: Quality Control & Genetic Engineering 4.0 Units

*Prerequisite***: BIO 014, BIO 002 or BIOT 160

Transferable to CSU

Hours: 32-36 lecture, 96-108 lab

Familiarizes students with small scale laboratory practices, both those used in a research laboratory and those used by a quality control department in industry, to analyze the quality of a cell culture process and the purity of protein products produced by cells in culture. The course emphasizes the use of Good Laboratory Practices (GLP) in these analyses. Students will gain experience in techniques used to analyze nucleic acids and in the genetic engineering of cells. They will also gain experience with the common assays used in Quality Control including electrophoresis, High Performance Liquid Chromatography (HPLC), Enzyme Linked Immunosorbant Assay (ELISA), and Polymerase Chain Reaction (PCR) to test products generated using cell culture.

BIOT 061

Stem Cells and Gene Therapy Vectors

*Prerequisite***: BIO 002 or BIO 014

Transferable to CSU

Hours: 16-18 lecture, 96-108 lab

Covers the principles of stem cell biology, cell therapies (like CAR-T treatments of cancer), and the production of virus vectors for gene therapies. Topics include the technological and regulatory considerations required to generate immune cells or stem cells as therapy agents and the manufacturing techniques used to generate virus vectors for gene therapy or to transduce cells. This includes the growth of embryonic stem cells, adult stem cells, induced pluripotent stem cells, and the ethical issues involved in stem cell research. Emphasis on laboratory techniques including culture and analysis of cells, and the use of several methods of cell culture used in the production of viruses.

3.0 Units

BIOT 065 Biomanufacturing Fundamentals 1.0 Unit

*Prerequisite***: BIO 002 or BIO 014

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Explore the basic biological, chemical, engineering, and regulatory concepts utilized to manufacture products using genetically engineered cells. This course covers host strain selection, cell banking and seed train, bioreactor operation and monitoring, recovery and purification techniques, and the regulatory environment required for biomanufacturing of products at a large scale.

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BIOT - Biotechnology

BIOT 066

Principles and Practice of Biomanufacturing

*Prerequisite***: BIO 002 or BIO 014

Hours: 48-54 lecture, 96-108 lab

Provides conceptual knowledge and hands-on training related to the manufacture of biological molecules using genetically engineered cells. Students will learn cell culture techniques that include working under aseptic conditions, sterile techniques, media preparation, cell and molecule quantification, and the scale-up of cell cultures. Students will inoculate, monitor growth, and harvest cultures from bioreactors. This course also covers protein recovery, concentration, and purification techniques including sample preparation, tangential flow filtration, column chromatograph, and the use of assays for purification analysis. Students will become familiar with the regulatory environment of biomanufacturing including current Good Manufacturing Process (cGMP), Standard Operating Procedures (SOP's), and production batch records.

4.0 Units

BIOT 160

Basic Concepts/Methods in Biotechnology

Hours: 32-36 lecture, 96-108 lab

This course serves as a prerequisite to Solano College's biotechnology courses by giving students knowledge of the basic concepts in biology and chemistry used in biotechnology while also developing the basic laboratory skills required to succeed in the field.

4.0 Units

BIOT 401

Biomanufacturing Process Sciences and Engineering Principles

*Prerequisite***: Admission into the Biomanufacturing Baccalaureate program. MATH 011

Transferable to CSU

Hours: 48-54 lecture, 96-108 lab

Builds upon the scientific knowledge underlying chemical engineering principles (for example fluid flow, mass transfer, heat transfer, and the energy relationship of fluid systems) to design, develop, and optimize key parameters in a biomanufacturing process. Process development includes the optimization of media composition, fermenter and bioreactor design, the design of downstream processes, instrumentation, engineering systems, and process control systems to maximize the yield and integrity of a protein pharmaceutical.

5.0 Units

BIOT 402

Design of Experiments for Biomanufacturing

*Prerequisite***: Admission into the Biomanufacturing Baccalaureate program. MATH 011

Transferable to CSU

Hours: 48-54 lecture, 48-54 lab

Teaches the formal approach called Design of Experiments (DoE), a system that optimizes a process through the methodical varying of key parameters and a formalized approach to the analysis, interpretation, and application of the results. DoE is designed to make any process more robust and to minimize variability from external sources. The course builds upon the statistical concepts required for DoE including hypothesis testing, confidence intervals, statistical models, and analysis of variance (ANOVA). The DoE approach systematically varies the parameters of a biomanufacturing project to improve its operation.

4.0 Units

BIOT 403

Design of Biomanufacturing Facilities, Critical Utilities, Processes, and Equipment

*Prerequisite***: Admission into the Biomanufacturing Baccalaureate program. Permission of faculty

Transferable to CSU

Hours: 64-72 lecture

Students analyze and evaluate how the design of a biomanufacturing facility uses one-way personnel flow and one-way material flow to maintain appropriate levels of cleanliness and sterility to promote the production of safe and effective products. Students analyze the design of the processes, equipment, and instrumentation used in biological production to generate critical utilities, aseptic systems, environmental control and monitoring, upstream production, and downstream (recovery and purification) production within a regulated environment.

4.0 Units

BIOT 404 Bioprocess Monitoring and Control 5.0 Units

*Prerequisite***: BIOT 401

Transferable to CSU

Hours: 48-54 lecture, 96-108 lab

Covers the measurement, monitoring, modeling, and control of biomanufacturing processes and the statistical methodology used for measuring, analyzing, and controlling quality during the manufacturing process including control charts and the analysis of process capabilities.

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BIOT - Biotechnology

BIOT 405

Emerging Biomanufacturing Technologies

*Prerequisite**:* BIOT 401

Transferable to CSU

Hours: 48-54 lecture

Focuses on biomanufacturing advances and emerging technologies in biological production and protein purification operations. In the course students compare the advantages and disadvantages of the new technology to the traditional technologies and approaches.

3.0 Units

BIOT 406

Supply Chain and Enterprise Resource Planning in Biomanufacturing

Transferable to CSU

Hours: 48-54 lecture

Students gain knowledge of how companies manage the complete flow of materials in a supply chain from suppliers to customers. This course covers the design, planning, execution, monitoring, and control of raw materials, personnel resources, inventory management, and distribution. At the end students will have the knowledge required to take the CPIM (Certified in Production and Inventory Management) certification test administered by APICS (the American Production and Inventory Control Society).

3.0 Units

BIOT 407

Advanced Topics in Quality Assurance and Regulatory Affairs

Transferable to CSU

Hours: 64-72 lecture

Builds upon previous knowledge of quality assurance and regulatory affairs to study the harmonized quality system approaches of ICH (International Committee on Harmonisation) Q8, Q9, Q10, and Q11. The course pays special attention to the topics of quality risk management, qualification, and validation. This course content has been aligned with the American Society for Quality's Body of Knowledge for a Certified Pharmaceutical Good Manufacturing Practice Professional examination.

4.0 Units

BIOT 408 Six Sigma and Lean Manufacturing 4.0 Units

Transferable to CSU

Hours: 64-72 lecture

Covers the Six Sigma approach to the maintenance and improvement of biomanufacturing processes. It incorporates the DMAIC phases: design, measure, analyze, improve, and control. The course covers the use and implementation of lean manufacturing tools that biomanufacturing companies use to reduce waste. At the end of the course students will be prepared to take the certification test administered by the American Society for Quality for qualification with a white belt in Six Sigma.

BIOT 409

Methods in Quality Improvements, Investigations, and Audits

*Prerequisite**:* Admission into the Biomanufacturing Baccalaureate program; Permission of faculty; BIOT 407

Transferable to CSU

Hours: 48-54 lecture, 48-54 lab

Examines the investigational methods used by quality assurance departments to analyze process deviations and make the decision about the severity of the deviation. In this course students learn to write industry-standard CAPA (Corrective Action Preventative Action) report to conclude what corrective and preventative actions result from the investigation. The course also covers how a company would perform an internal audit in anticipation of an inspection by the Food and Drug Administration or an external audit for the supplier of a key raw material. This course content has been aligned with the American Society for Quality's Body of Knowledge for a Certified Quality Technician examination.

4.0 Units

BIOT 410

Emerging Trends in Biomanufacturing Quality

*Prerequisite**:* Admission into the Biomanufacturing Baccalaureate program; Permission of faculty; BIOT 407

Transferable to CSU

Hours: 48-54 lecture

Examines the process by which the quality systems of biomanufacturing evolve by examining a selected current trend in the laws and regulations governing pharmaceutical manufacturing. In this course students evaluate the effectiveness of the laws and regulations governing pharmaceutical manufacturing.

3.0 Units

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BSOT - Office Technology/Business Information Worker

BSOT 105 Computer Literacy

1.0 Unit

Course Advisory: Keyboarding speed of 30 wpm

Hours: 16-18 lecture

An introduction to computer terminology and fundamental hardware and software applications. Topics include industry standard Microsoft Office (word processing, spreadsheet, and presentation) application programs, file management, email, instant messaging, and internet browsing and searching. (C-ID BSOT 105X)

BSOT 106 MS Outlook

1.0 Unit

Course Advisory: Keyboarding speed of 30 wpm and BSOT 105, CIS 001, or CIS 050

Hours: 16-18 lecture

Explores personal management software and use of Microsoft Outlook functions. Topics include management of e-mail, organization of contacts, creation and scheduling of events using the calendar, and creating and managing tasks for personal and business use. Customization of Outlook features is also covered. (C-ID BSOT 106X)

BSOT 110 Keyboarding I

1.0 Unit

Course Advisory: BSOT 105

Hours: 16-18 lecture

Covers effective keyboarding skills with an emphasis on building correct touch-typing techniques for alphanumeric, symbol, and punctuation keys. Provides a foundation for developing keyboarding speed and accuracy. Successful completion of this class results in a minimum keyboarding speed of 15 net words per minute on a two-minute timed writing. (C-ID BSOT 110X)

BSOT 111 MS Word I

1.0 Unit

Course Advisory: BSOT 105 and BSOT 110; and CIS 001 or CIS 050

Hours: 16-18 lecture

Provides an introduction to word processing with Microsoft Word including basic document creation, formatting, and editing. Students create, edit, and format business letters, multiple-page reports, newsletters, and cover letters. This course begins preparation for the Microsoft Office User certification exam for Word. (C-ID BSOT 111X)

BSOT 112 MS Excel I

1.0 Unit

Course Advisory: keyboarding speed of 30 wpm and BSOT 105, CIS 001, or CIS 050

Hours: 16-18 lecture

Provides a basic understanding of Microsoft Excel beginning with spreadsheet design, creation, revision, formatting, and printing a workbook. Basic formulas, functions, and syntax are introduced along with an introduction to using charts and graphs. Problem solving for Excel solutions is also emphasized. This course begins preparation for the Microsoft Office Certification exam for Excel. (C-ID BSOT 112X)

BSOT 113 MS Access I

1.0 Unit

Course Advisory: BSOT 105 and BSOT 110 with a minimum grade of C and CIS 001 or CIS 050

Hours: 16-18 lecture

Provides a basic understanding of fundamental relational database design and management. Introduces building and editing basic tables, forms, queries, and reports. This course begins preparation for the Microsoft Office Specialist exam for MS Access. (C-ID BSOT 113X)

BSOT 114 MS PowerPoint I

1.0 Unit

Course Advisory: BSOT 105 and BSOT 110; and CIS 001 or CIS 050

Hours: 16-18 lecture

Introduces the process of planning, creating, editing, viewing, and printing PowerPoint presentations. Topics include adding text, graphics, and multimedia elements and creating master pages and templates. Integration with other Microsoft programs is also covered. (C-ID BSOT 114X)

BSOT 120 Keyboarding II

1.0 Unit

Course Advisory: BSOT 105 and BSOT 110

Hours: 16-18 lecture

Covers intermediate keyboarding with correct touch-typing techniques, including alphanumeric, and symbol keyboarding and 10-Key numeric keypad. Skill-building includes introductory formatting of documents using Microsoft Word. Successful completion of this class results in a minimum keyboarding speed of 30 net words per minute on a three-minute timed writing. (C-ID BSOT 120X)

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BSOT - Office Technology/Business Information Worker

BSOT 121 MS Word II

1.0 Unit

Course Advisory: Keyboarding speed of 30 wpm and BSOT 111
Hours: 16-18 lecture

Covers an intermediate level of word processing with Microsoft Word, including complex document creation, mail merge, columns, formatting, plus integration with other applications, and collaborating on documents using Microsoft Word. Themes, templates, and styles are also covered. This course continues preparation for the Microsoft Office User Exam for Microsoft Word.

(C-ID BSOT 121X)

BSOT 122 MS Excel II

1.0 Unit

Course Advisory: Keyboarding speed of 30 wpm and BSOT 112
Hours: 16-18 lecture

Provides an intermediate understanding of Microsoft Excel. Analyzing data, working with multiple worksheets and functions, pivot tables, resolving conflicts, tracking changes, data validation, chart formatting, templates, and macros are covered. Problem solving for Excel solutions is also emphasized. This course continues preparation for the Microsoft Office Certification exam for Excel.

(C-ID BSOT 122X)

BSOT 123 MS Access II

1.0 Unit

Course Advisory: Keyboarding speed of 30 wpm and BSOT 113
Hours: 16-18 lecture

Provides an intermediate understanding of database design and management. Advanced Queries, table design, custom forms and reports as well as integration of Access with the web and other programs are covered. This course continues preparation for the Microsoft Office Specialist exam for MS Access.

BSOT 124 MS PowerPoint II

1.0 Unit

*Prerequisite**:* BSOT 114
Course Advisory: Keyboarding speed of 30 wpm
Hours: 16-18 lecture

Covers the use of PowerPoint as a tool for designing, producing, and controlling visual elements to build and deliver effective presentations. Topics include creating templates, customizing, protecting, and publishing presentations as well as inserting audio, video, and animations and integrating with other programs.

BSOT 125 Adobe Acrobat

1.0 Unit

Course Advisory: Keyboarding speed of 30 wpm; BSOT 105 and BSOT 110 or CIS 001 or CIS 050 with a minimum grade of C
Hours: 16-18 lecture

An introduction to the basic components of Adobe Acrobat software. Topics include creating portable document files (PDF), working with PDF files, annotation and editing of files plus interactive forms. Distribution and management of PDFs is also covered.

BSOT 130 Keyboarding III

1.0 Unit

*Prerequisite**:* Keyboarding speed of 30 wpm with 4 errors or less on a 3 minute timed writing
Course Advisory: BSOT 120 with a minimum grade of C
Hours: 16-18 lecture

Provides advanced keyboarding techniques that build on intermediate touch-typing techniques including alphanumeric, and symbol keyboarding as well as 10-Key numeric keypad. Skill-building includes document production with advanced formatting using MS Word, and individualized remedial drills. Successful completion of this class results in a minimum net keyboarding speed of 45 words per minute on a five-minute timed writing.

BSOT 131 MS Word III

1.0 Unit

*Prerequisite**:* BSOT 121;
Course Advisory: Keyboarding speed of 30 wpm
Hours: 16-18 lecture

An advanced level of word processing with Microsoft Word, including creation of templates, macros, advanced table formatting, and use of long documents and subdocuments. Customizing and automating work and online forms are also covered. This course completes preparation for the Microsoft Office User exam for Word.

BSOT 132 MS Excel II

1.0 Unit

*Prerequisite**:* BSOT 122
Course Advisory: Keyboarding speed of 30 wpm
Hours: 16-18 lecture

Provides an advanced understanding of Microsoft Excel. Financial and what-if analysis, data tables, scenario management, importing and exporting data, enhancing with Visual Basic, sub-routines, modifying default settings, and problem-solving tools are covered. Problem solving for Excel solutions is also emphasized. This course completes preparation for the Microsoft Office Certification exam for Excel.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

BSOT - Office Technology/Business Information Worker

BSOT 133 MS Access II

1.0 Unit

*Prerequisite**:* BSOT 123

Course Advisory: Keyboarding speed of 30 wpm

Hours: 16-18 lecture

Covers advanced database design and management. Action Queries, table relationships, and automating tasks with macros are covered. Visual Basic for Applications is introduced to enhance database construction and functionality. Managing replication and synchronization is included.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

BUS - Business

BUS 005 Introduction to Business

3.0 Units

Transferable to UC/CSU

Hours: 48-54 lecture

A study and analysis of the principles of business by providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions and human behavior interact. The course introduces students to contemporary business principles, practices, and terminology. Students will gain an understanding and appreciation of the private enterprise system and how the functional areas of business work, interrelate and affect a business organization's policy and practices within the U.S. and global society. Students also gain the knowledge to demonstrate how these policies and practices impact the primary areas of business such as: leadership, human resource management, organized labor practices, marketing, organizational communication, technology, entrepreneurship, legal, accounting, financial practices, the stock and securities market and how they affect a business' ability to achieve its organizational goals. The course explores business career opportunities, provides the prerequisite knowledge needed for success in other business courses, and prepares students for transfer to upper-division business degree programs.

(C-ID BUS 110)

BUS 018 Legal Environment of Business

3.0 Units

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the study of law, with specific emphasis on the legal environment of business. Includes the legal process, legal institutions, ethics, jurisdiction, U.S. Constitution, contracts, agency, the Uniform Commercial Code (UCC), torts, employment law, property, bankruptcy law, forms of business organization, corporations, consumer protection, government regulation and Alternative Dispute Resolution (ADR), along with ethical concerns and current public policy issues. Written examinations required. *(C-ID BUS 120)*

BUS 060

3.0 Units

Introduction to International Business

Transferable to CSU

Hours: 48-54 lecture

An overview designed to provide a global perspective in a continuously emerging international marketplace, including topics such as foreign investing, impact of financial markets, international marketing, cultural understanding, and operation of multinational and small companies.

BUS 070 Introduction to Insurance

1.0 Unit

Transferable to CSU

Hours: 16-18 lecture

Provides students with the background needed prior to taking the other insurance courses. Included are topics such as property/casualty insurance, distribution of insurance products and services to the consumer, how insurance company departments function, civil laws or tort and contract, basic commercial and personal Insurance Services Office (ISO) contracts, and the risk management process.

BUS 071

3.0 Units

Principles of Property and Liability Insurance

Transferable to CSU

Hours: 48-54 lecture

Prepares students for employment in the insurance industry, which consists of many different types of employment opportunities, from selling insurance to working in a variety of positions in an insurance company.

BUS 072 Personal Insurance

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

A basic introduction to personal insurance. Includes information about automobile insurance; homeowners' insurance; other residential insurance, such as fire and earthquake insurance; marine insurance; and other personal property.

BUS 073 Commercial Insurance

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Prepares students for employment in the insurance industry. Emphasis for this course is on commercial insurance. The insurance industry offers many different types of employment opportunities, from selling insurance to working in an insurance office.

BUS 074 Insurance - Code & Ethics

1.0 Unit

Transferable to CSU

Hours: 16-18 lecture

Enables students to understand and apply proper ethical business behavior and obligations, especially as they relate to those working in the field of insurance.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

BUS - Business

BUS 092 Business Communication

3.0 Units

*Transferable to CSU
Hours: 48-54 lecture*

A study of communication theory in the planning and preparation of various types of letters, memos, emails, reports, resumes, and oral presentations along with analysis of group dynamics, symbolic communication, interview techniques and listening skills. This course applies the principles of ethical and effective communication to written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports. This course is designed for students who already have college-level writing skills.

BUS 097 Work Readiness

1.5 Units

Hours: 24-27 lecture

Covers the process of assessing the job market and completing a resume and application. Topics include how to be successful on the job and gain satisfaction and rewards from work. The course emphasizes soft skills needed in the workplace, including social and communication skills and personal characteristics and desirable habits of an employee. Additional emphasis on conforming to the expectations of the employer.

BUS 099 Business Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

A comprehensive study and analysis of a topic of student scholarship which is centered on important topics or issues within the business field. Students may take this course up to the maximum number of units over multiple semesters.

BUS 148A

3.0 Units

Small Business Project-Based Path for Entrepreneurs

Hours: 48-54 lecture

Emphasizes activities and techniques through project management that develops competencies needed to become a successful leader. Students receive instruction and project-based activities in the areas of entrepreneurship, project management, personal and workplace skill, oral and written techniques, and networking.

BUS 181 Business Mathematics

1.0 to 3.0 Units

Hours: 16-54 lecture

An application of essential mathematical skills necessary for success in business. Includes a review of fractions, decimals, percents, ratios, the percentage formula, and general business applications; covers advanced business applications such as interest, discount, markup, payroll, pricing policies, cash and trade discounts, and financial statements. This is a self-paced, programmed learning class. Students may take this course up to the maximum number of units over multiple semesters. This is an Open Entry/Open Exit, Variable unit course; Online course is not Open Entry/Open Exit.

BUS 182 Small Business Mathematics

1.0 Unit

Hours: 16-18 lecture

An application of essential mathematical skills necessary for persons operating a successful business. It includes asset and inventory management; ratio analysis, depreciation, taxation applied to sales, excise, and real property; investments and insurance, and basic statistics. This is a self-paced, programmed learning class. This is an Open Entry/Open Exit course; Online course is not Open Entry/Open Exit.

BUS 208

0.5 Unit

Employee Relations and Personnel Policies

Hours: 8-9 lecture

Good employees are made through effective training, development, and relations. This course explores techniques used in training and developing good employees. The elements that comprise a sound employee relations program are presented. This is a Pass/No Pass only course.

BUS 400 Project Management

3.0 Units

*Prerequisite**:* Admission into the Biomanufacturing Baccalaureate degree program

Transferable to CSU

Hours: 48-54 lecture

Learn the core characteristics of project management including project selection, initiation, planning, execution, monitoring and control, and closing. Students learn how the management of the project's scope, time, cost, quality, human resources, communication, procurement, stakeholders, and risk lead to the ability to deliver the project on-time and on-budget, while meeting performance specifications. This course is designed to fulfill the classroom component of a Project Management Professional credential.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CDFS - Child Development and Family Studies

CDFS 038 Child Growth and Development 3.0 Units

General Education: SCC: Area B2; IGETC: Area 4;

CSU: Area D, E

Transferable to UC/CSU

Hours: 48-54 lecture

Examine the major physical, cognitive, and psychosocial developmental milestones (typical and atypical) and theories from conception through adolescence. Emphasis is placed on the interaction between maturational processes and environmental factors. Current research and methodologies are examined. Child observations and analysis are included. *Field trip may be required.*

(C-ID CDEV 100)

CDFS 040 Family Relationships 3.0 Units

General Education: SCC: Area B2; IGETC: Area 4;

CSU: Area D, E

Transferable to UC/CSU

Hours: 48-54 lecture

A study of sociological and psychological factors influencing relationships, particularly dating, family, and marital relationships, as well as alternative lifestyles in contemporary society, including factors that affect communication and interpersonal interactions within relationships.

CDFS 050 Child, Family and Community 3.0 Units

General Education: SCC: Area B2; CSU: Area D, E

Transferable to CSU

Hours: 48-54 lecture

An examination of the developing child in a societal context focusing on the interrelationships of family, school and community, including historical and socio-cultural influences. Socialization and identity development are emphasized, as are teacher strategies for building respectful, reciprocal relationships that support and empower children and families. (C-ID CDEV 110)

CDFS 052 Children with Special Needs 3.0 Units

Course Advisory: CDFS 038

Transferable to CSU

Hours: 48-54 lecture

An introductory study of children with special needs, including causes of disabilities, their incidence, care, management, and general remedial procedures. Emphasis is on the child with disabilities in the home and community settings.

CDFS 053 Teaching in a Diverse Society 3.0 Units

General Education: SCC: Area B2, E; Option B: SCC Cross-Cultural;

CSU: Area D; SCC Cross-Cultural

Transferable to CSU

Hours: 48-54 lecture

Examination of teaching young children in a diverse society in an effort to support optimal identity development, competency, and inclusion. Theoretical and practical implications of oppression and privilege will be explored as they apply to children, families, programs, classrooms, and teaching. Various classroom strategies will emphasize culturally and linguistically appropriate anti-bias approaches. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media, and schooling. (C-ID ECE 230)

CDFS 054 Child Health, Safety, and Nutrition 3.0 Units

Course Advisory: CDFS 038 and CDFS 062

General Education: SCC: Area B2; CSU: Area E

Transferable to CSU

Hours: 48-54 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. This course is the same course as NUTR 054. (C-ID ECE 220)

CDFS 062 3.0 Units

Introduction to Early Childhood Education: Principles and Practices

Prerequisite**: CDFS 038 with a minimum grade of D (may enroll concurrently)

Transferable to CSU

Hours: 48-54 lecture

An examination of the underlying 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 all young children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. (C-ID ECE 120)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

CDFS - Child Development and Family Studies

CDFS 063 Introduction to Curriculum

3.0 Units

*Prerequisite**:* CDFS 038

Course Advisory: CDFS 062 with a minimum grade of C

Transferable to CSU

Hours: 48-54 lecture

An overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher's role in supporting development and fostering children's curiosity and learning. Through observation and assessment strategies students will develop appropriate play-based curriculum. An overview of content areas will include but not be limited to: Language and literacy, social and emotional learning, sensory learning, art and creativity, music, math, and science. *Field trip may be required. (C-ID ECE 130)*

CDFS 064 Observation and Assessment

3.0 Units

Course Advisory: CDFS 038

Transferable to CSU

Hours: 48-54 lecture

A focus on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. *(C-ID ECE 200)*

CDFS 065

4.0 Units

Early Childhood Education Practicum I

*Prerequisite**:* CDFS 050, CDFS 062, and CDFS 063

Transferable to CSU

Hours: 16-18 lecture, 144-162 lab by arrangement

Supervised laboratory experience with infants through preschool children in the Solano College Early Learning Center. Students will spend 8 hours in practicum, 1 hour in a teacher meeting, and 1 hour in seminar for a total of 10 hours per week. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teacher design, implement and evaluate experiences that promote positive development and learning for all young children. During the first week of enrollment, students will be required to be fingerprinted and cleared through Department of Justice and have a negative TB skin test at the District's expense. *(C-ID ECE 210)*

CDFS 066

4.0 Units

Early Childhood Education Practicum II

*Prerequisite**:* CDFS 065

Transferable to CSU

Hours: 16-18 lecture, 144-162 lab by arrangement

Emphasizes curriculum activities, comprehensive case studies, methods of child observation, and relationships of theories to practices. Students may be placed in the Solano College Children's Programs on campus or with a Mentor teacher (selected by the SCC/ECE Mentor teacher selection committee) off campus. Students will spend 8 hours in practicum, 1 hour in a teacher meeting, and 1 hour in seminar for a total of 10 hours per week. During the first week of enrollment, students will be required to be fingerprinted and cleared through Department of Justice and have a negative TB skin test at the District's expense.

CDFS 070 Lifespan Human Development

3.0 Units

General Education: SCC: Area B2; CSU: Area D, E

Transferable to CSU

Hours: 48-54 lecture

A survey of human development throughout the life cycle, including physical, social, intellectual, and emotional development from conception to death. Includes direct observation.

CDFS 075

3.0 Units

Care of Infants and Toddlers: Social and Emotional Foundations

Transferable to CSU

Hours: 48-54 lecture

Examine relationship-based infant/toddler group care, with an emphasis on social and emotional development. Theoretical foundations of quality care are addressed including the importance of home-family connections, cultural continuity, and responsive practice. Skills for individualizing care, routines, and working with children with special needs are explored.

CDFS 076

3.0 Units

Care of Infants and Toddlers: Curriculum and Environments

Transferable to CSU

Hours: 48-54 lecture

Based on theory and an holistic approach to development, this course explores quality environments and curriculum for infants and toddlers. Through observation and assessment, students develop skills for creating meaningful cognitive, physical, literacy, and social and emotional experiences in group care.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CDFS - Child Development and Family Studies

CDFS 077 Art and Scientific Inquiry for ECE 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

An exploration of art and science curriculum appropriate to the development of young children. Emphasis is placed on children's use of art and science to foster creativity, inquiry, and knowledge about themselves and the physical world. The curriculum planning process as applied to early childhood STEAM (science, technology, engineering, art, and mathematics) experiences is emphasized. *Field trip may be required.*

CDFS 078 Literacy and Music for ECE 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

An exploration of language, literacy, music, and movement in early childhood education. Emphasis is placed on understanding and creating developmentally appropriate and culturally inclusive classroom experiences that promote emergent literacy and musical expression. Students will evaluate materials for quality and engage in teaching practices that promote children's holistic learning such as singing, instrument use, movement activities, teacher-child interaction, storytelling, puppetry, and dramatic play.

CDFS 080 Early Childhood Administration 3.0 Units

*Prerequisite**:* CDFS 038 and CDFS 062

Transferable to CSU

Hours: 48-54 lecture

An overview of the fundamental duties and responsibilities of Early Childhood Administration, including preparation, implementation and evaluation of the program goals and budget controls. Meets requirements set by the California Commission on Teacher Credentialing for Site Supervisor and Program Director permit and State of California Community Care Licensing.

CDFS 081 Early Childhood Staff Supervision 3.0 Units

*Prerequisite**:* CDFS 038, CDFS 050, and CDFS 062

Transferable to CSU

Hours: 48-54 lecture

A presentation of the fundamentals involved in becoming a more effective supervisor and methods and procedures in dealing with selection, supervision and evaluation of staff in an early childhood setting. Meets the requirements set by the California Commission on Teacher Credentialing for the Site Supervisor and Program Director Permit and State of California Community Care Licensing.

CDFS 082 2.0 Units

Adult Supervision: The Mentor Teacher

*Prerequisite**:* CDFS 038, CDFS 050, and CDFS 062

Transferable to CSU

Hours: 32-36 lecture

Methods and principles of supervising student teachers in early childhood classrooms. Emphasis on the role of experienced classroom teachers who function as mentors to new teachers while simultaneously addressing the needs of children, parents and other staff. Required for the Master Teacher, Site Supervisor, and Program Director Permits issued by the California Commission on Teaching Credentialing.

CDFS 099 1.0 to 3.0 Units

Early Childhood Education Honors

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

An independent study and research class in the areas of infant, toddler, and preschool early education programs. The student and instructor design an outlined program of study. Students may continue CDFS 099 over multiple semesters not to exceed 3 units.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CHEM - Chemistry

CHEM 001 General Chemistry I

5.0 Units

*Prerequisite**:* CHEM 160 (recommended for students with no previous chemistry) or CHEM 010 (recommended for students who have had an introductory level chemistry course) or a score of 3, 4, or 5 on the Chemistry AP exam; and MATH 104 or eligibility for MATH 002 based on a Multiple Measures Evaluation

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 96-108 lab

Presents principles of general chemistry for students in science, engineering, medical and related professions. Topics include atomic structure and theory, the periodic table, bonding, gas laws, stoichiometry, solutions, ionization, thermochemistry and equilibrium. This course requires significant math skills and previous knowledge of fundamental chemistry concepts. Field trips and online work may be required. (CHEM 001 = C-ID CHEM 110) (CHEM 001 + CHEM 002 = C-ID CHEM 120S)

CHEM 002 General Chemistry II

5.0 Units

*Prerequisite**:* CHEM 001

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 96-108 lab

A continuation of chemical principles and theory covered in CHEM 001 with emphasis on electrochemistry, chemical equilibrium, acid-base equilibrium, thermodynamics, descriptive chemistry and quantitative and qualitative analysis. This course requires significant math skills and previous knowledge of fundamental chemistry concepts. Field trips and online work may be required. (CHEM 001 + CHEM 002 = C-ID CHEM 120S)

CHEM 003 Organic Chemistry I

5.0 Units

*Prerequisite**:* CHEM 002

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3
Transferable to UC/CSU

Hours: 64-72 lecture, 64-72 lab

First half of a two semester course sequence (CHEM 003 and CHEM 004) that begins a survey of organic chemistry for students in chemical, biological, health science, and related professions. Topics include analysis of structure and nomenclature, bonding, isomerism, and basic reaction mechanisms of organic chemicals. Functional groups considered include alkanes, alkenes, alkynes, alcohols, and alkyl halides and ethers. Basic organic laboratory procedures are introduced along with spectral analysis, simple syntheses, and reactions described in lecture. *Field trip may be required.* Online homework and quizzes may be required. (CHEM 003 = C-ID CHEM 150) (CHEM 003 + CHEM 004 = C-ID CHEM 160S)

CHEM 004 Organic Chemistry II

5.0 Units

*Prerequisite**:* CHEM 003

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3
Transferable to UC/CSU

Hours: 64-72 lecture, 64-72 lab

Second half of a two semester course sequence (CHEM 003 and CHEM 004) that begins a survey of organic chemistry for students in chemical, biological, health science, and related professions. Topics include analysis of structure, nomenclature, and reaction mechanisms of conjugated systems, aromatics, organometallics, aldehydes, ketones, amines, carboxylic acids and acid derivatives, and various functional groups, carbohydrates, lipids, amino acids, proteins, and nucleic acids. The laboratory will emphasize more advanced work and the application of instrumentation in organic chemistry. *Field trip may be required.* Online homework and quizzes may be required. (CHEM 003 + CHEM 004 = C-ID CHEM 160S)

CHEM 010 Intermediate Chemistry

4.0 Units

*Prerequisite**:* Recommendation of MATH 104 based on a Multiple Measures Evaluation

Course Advisory: CHEM 160 strongly recommended for students who have never taken Chemistry

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

A general chemistry course often required for nursing students and for students majoring in physical therapy, occupational therapy, industrial technology and home economics, it emphasizes the chemistry of inorganic compounds and covers selected topics such as atomic theory, bonding, equations, gas laws, solutions, acid-base theory, and oxidation-reduction. *Field trip may be required.* Online homework may be required. NOTE: Not open for credit to students who have completed CHEM 001. (C-ID CHEM 101)

CHEM 011

4.0 Units

Basic Organic Chemistry & Biochemistry

*Prerequisite**:* CHEM 001 or CHEM 010

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3
Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab.

Presents an overview of organic chemistry and biochemistry for majors in nursing, home economics, liberal arts and technical fields. *Field trip may be required.* Online work may be required. (C-ID CHEM 102)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

CHEM - Chemistry

CHEM 012 Chemistry for the Health Sciences 5.0 Units

Course Advisory: CHEM 160 strongly recommended for students who have never taken Chemistry before; recommendation of MATH 104 based on a Multiple Measures Evaluation

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1, B3 Transferable to UC/CSU

Hours: 48-54 lecture, 96-108 lab

An overview of general, organic chemistry, and biochemistry for majors in nursing and other allied health occupations. Topics covered include chemical bonding, chemical equations, gas laws, solutions, acid-base theory, oxidation-reduction, functional groups and properties of organic compounds, and the structure and function of carbohydrates, lipids, proteins, and nucleic acids. These topics are discussed in the context of cellular metabolism and human health. This course is not a prerequisite for any chemistry course. *Field trip may be required.* Online homework may be required. NOTE: Not open for credit to students who have completed CHEM 011. Formerly CHEM 051.

CHEM 160 Introductory Chemistry

4.0 Units

General Education: SCC: Area A

Hours: 48-54 lecture, 48-54 lab

The fundamental principles of inorganic chemistry. Field trips may be required. Online work may be required. NOTE: Not open to students who have completed CHEM 001, CHEM 010, or equivalent.

CHEM 505

0.0 Units

Supplemental Instruction in Chemistry

Hours: 16-18 lab

An Open-Entry, open-exit course for students who seek academic support, through supplemental instruction, to fill in missing prerequisite knowledge and strengthen their problem solving skills in the following course/courses: CHEM 160, 010, 011, 012, 001, 002, 003, 004 at Solano Community College

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CINA - Cinema

CINA 010 Introduction to Cinema Studies

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the close analysis of film texts. Examines the broad questions of form and content, aesthetics and meaning, and history and culture. Explores the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology and critical analysis. Written exams, film screenings, and film discussion are required.

CINA 011 American Cultures in Film

3.0 Units

Course Advisory: ENGL 001

General Education: SCC: Area C, E; IGETC: Area 3A; SCC Cross-Cultural; CSU: Area C1, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

A film studies approach to understanding ethnicity, culture, race, discrimination, gender, class and pluralism in America. Includes screenings of films by and/or about Asian Americans, African-Americans, European Americans, Hispanic Americans, Native Americans, and selected readings, written critical analysis and discussion.

CINA 015 Film Production

4.0 Units

*Prerequisite**:* CINA 010 (may enroll concurrently)

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab by arrangement

An introduction to digital film production equipment, techniques and principles. Includes applications of producing, directing, writing, cinematography, editing and sound recording. Students are required to demonstrate knowledge of the above in student-produced digital films, exercises and written work.

CINA 016 Film Production

4.0 Units

*Prerequisite**:* CINA 015

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

The application of filmmaking principles and techniques in the production of student produced animated, documentary, educational and/or dramatic films. Emphasis is on developing skill and creativity as a producer/director and refining basic technical competence. A final film project is required.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CIS - Computer Information Science

CIS 001 Introduction to Computer Science 3.0 Units

Course Advisory: keyboarding speed 30 wpm

General Education: SCC: Area D3

Transferable to UC/CSU

Hours: 48-54 lecture, 16-18 lab

An introduction to the hardware and software components of basic computer information systems. Also, an examination of information systems and their role in business. A review of historical, social and cultural implications of computer technology in today's society. Course content will include hands-on familiarization with a computer operating system and common application software. Additionally, the course includes an introduction to computer programming using an object-oriented programming language such as Java, Python, C++ or Visual Basic.Net. Students will learn to develop problem specifications, detailed analyses, design algorithms, and construct structured computer programs.

CIS 015 Programming in Visual Basic.NET 3.0 Units

*Prerequisite**:* CIS 001

Transferable to UC/CSU

Hours: 48-54 lecture, 16-18 lab

An introduction to Object Oriented Programming (OOP) using Visual Basic.NET, emphasizing problem-solving techniques using structured design and development. An extensive coverage of the Visual Basic computer language will be conducted using the Microsoft.Net environment. Students will construct forms and define procedures, events, properties, methods and objects to solve a variety of business-oriented problems.

CIS 020 Assembly Programming 3.0 Units

*Prerequisite**:* CIS 015, CIS 022 or CIS 035

General Education: SCC: Area D3

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

A hardware-oriented programming course dealing with programming a computer at the assembler language level. Emphasis will be on the assembly language of computers. (C-ID COMP 142)

CIS 021 3.0 Units

Discrete Structures for Computer Science

*Prerequisite**:* CIS 023 and Math 020

General Education: IGETC: Area 2

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

An introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: Functions, Relations and Sets; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability. (C-ID COMP 152)

CIS 022 Introduction to Programming 3.0 Units

*Prerequisite**:* CIS 001

General Education: SCC: Area D

Transferable to UC/CSU

Hours: 48-54 lecture, 16-18 lab

An introduction to computer programming. The course's content will include 'hands-on' development of structured algorithms and programs through top-down design, modular and object oriented programming, and standardized control structures. Taught using an object-oriented computer programming language such as C++, C#, Java, etc. (C-ID COMP 122)

CIS 023 Data Structures and Algorithms 3.0 Units

*Prerequisite**:* CIS 022

General Education: SCC: Area D3

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

A study of the basic concepts associated with the creation and manipulation of data structures and their related processing algorithms. Topics include software engineering principles, the selection, design, and implementation of data structures including arrays, sequential and random access files, strings, stacks, queues, linked lists, and binary trees, and the development of efficient algorithms for sorting, searching, and manipulating these data structures. Taught using an object-oriented computer programming language such as C++, C#, Java, etc. (C-ID COMP 132)

CIS 035 Introduction to Java Programming 3.0 Units

*Prerequisite**:* CIS 015, CIS 022 or CIS 023

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Introduces Object Oriented Programming (OOP) using the Java programming language. Includes hands-on development of Java applets and Java applications using objects, classes, interfaces and Graphical User Interface (GUI) components.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CIS - Computer Information Science

CIS 049

1.0 to 3.0 Units

Computer and Information Science Honors

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of C; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

Designed for honor students who intend to major in one of the Computer and Information Science options. Students are expected to design their own projects and must submit them to the instructor for approval. Students may take this course up to the maximum number of units over multiple semesters.

CIS 050 Microcomputer Applications

3.0 Units

Course Advisory: Basic keyboarding skills at 30 wpm

Transferable to CSU

Hours: 48-54 lecture

An introduction to microcomputers and the more frequently used applications software. The course is designed for the microcomputer user who is not a computer science major. The purpose of this course is to help students to understand the concepts and fundamentals of working with: an operating system with its associated graphical user interface, word processing, spreadsheets, databases and presentation software.

CIS 052 UNIX Operating System

3.0 Units

Course Advisory: CIS 055

Transferable to CSU

Hours: 48-54 lecture

An analysis of the UNIX operating system, its terminology, user utilities, file structure, file security, commands, shells, shell programming, system architecture, and system administration. Emphasis will be placed on the shell environment, shell programming and utilities. The course will include hands-on exercises for the students to complete using the UNIX operating system (Currently taught using LINUX).

CIS 055 MS Windows Operating Systems

3.0 Units

Course Advisory: CIS 001; basic keyboarding skills

Transferable to CSU

Hours: 48-54 lecture

How to use the Graphical User Interface (GUI) and the command line interface in carrying out system tasks in the MS Windows operating systems. Topics include file management, hard disk management, system tools, batch files, connectivity, and the registry.

CIS 060 Introduction to the Internet

1.5 Units

Transferable to CSU

Hours: 24-27 lecture

Prepares students to use the Internet, a world wide computer network. Emphasis is on introducing features of the Internet, including electronic mail, the World Wide Web, Gopher, FTP (file transfer protocol), Telnet, and Usenet, as well as other Internet services and utilities. Students will explore hands-on the vast resources of the Internet, learn to access information using a variety of methods, and will construct a simple Web page.

CIS 061 Creating Web Pages

3.0 Units

Course Advisory: CIS 001

Transferable to CSU

Hours: 48-54 lecture

Prepares students to develop web sites that interact with databases. Emphasis is on the creation of Web sites with interactive Web pages, data access Web pages, and web pages with interactive components. Students will explore hands-on access to the Internet and an HTML editor to create and maintain Web sites.

CIS 062 Creating Web Interactivity

3.0 Units

Course Advisory: A minimum grade of C in both CIS 001 and CIS 061

Transferable to CSU

Hours: 48-54 lecture

Covers the creation of vector-based graphics, animation, and interactivity within the Web environment. Emphasis will be placed on applying design principles to the elements of motion and interactivity. The basic operating principles of Adobe Animate will be applied in order to create Web content with animation, interactive buttons, and sound. Issues of optimal delivery and web accessibility will also be covered. A portfolio-quality professional level capstone project will be developed and presented.

CIS 066 Microsoft Word

3.0 Units

Course Advisory: CIS 001 or CIS 050 with a minimum grade of C;

ability to keyboard at 30 wpm

Transferable to CSU

Hours: 48-54 lecture

An in-depth study of the functions of the word processing program. Students will learn how to use basic and advanced program features to create and design business documents.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CIS - Computer Information Science

CIS 069 Multimedia For the Web

3.0 Units

*Course Advisory: CIS 061 with a minimum grade of C
Transferable to CSU
Hours: 48-54 lecture*

An in-depth look at designing multimedia for the Web. Topics include developing graphic elements such as buttons, background textures and images for a Web site, using Cascading Style Sheets to position graphics, using Adobe Animate CC to create web site interactivity, adding audio and/or video to a Web site, and manipulating Web multimedia file formats.

CIS 070 Adobe Photoshop for the Web

3.0 Units

*Course Advisory: CIS 001 or CIS 050 with a minimum grade of C
Transferable to CSU
Hours: 48-54 lecture*

Emphasizes the use of computer technology to create and manipulate raster and vector digital images. Students use Photoshop techniques to produce digital creations for the web. Layers, filter effects, blending modes, and other editing tools will be used to produce digital images appropriate for print and electronic reproduction. The elements of Photoshop for use in industry-standard web and print production will be explored.

CIS 073 Microsoft Excel

3.0 Units

*Course Advisory: CIS 001 with a minimum grade of C; ability to keyboard at 30wpm
Transferable to CSU
Hours: 48-54 lecture*

A thorough study of spreadsheet operation and enables the student to use the spreadsheet to perform mathematical computations and analysis. Students will create graphic representations of the information contained in a spreadsheet, perform list management routines, use functions, perform 'what if' analysis, customize toolbars and menus, and create macros using Visual Basic for Applications.

CIS 078

Access - Database Management System

3.0 Units

*Course Advisory: CIS 001 with a minimum grade of C
Transferable to CSU
Hours: 48-54 lecture*

An introduction to relational database management using microcomputers. Microsoft's Access database management program is used. Students will learn how to create and maintain relational database structures, organize and manipulate data, ask questions of the data, create custom forms for entering data and custom reports for printing the data. How to publish objects on the Internet's World Wide Web is presented. The student will learn how to construct a complete application combining previously created tables, queries, forms, and reports. Visual BASIC Applications (VBA) and Structured Query Language (SQL) are introduced. Advanced database design is explored and the student learns how to 'normalize' a database structure.

CIS 080 SQL Database Management Systems

3.0 Units

*Course Advisory: CIS 001; CIS 078
Transferable to CSU
Hours: 48-54 lecture*

Provides knowledge and skills in advanced database systems that use the SQL language such as IBM's DB2, Oracle, Sybase and Microsoft's SQL Server. This course is designed for the end user, the database designer and the database administrator. Microsoft SQL Server 2008 is the database system currently used for this course.

CIS 081 Server-Side Web Programming

3.0 Units

*Course Advisory: A minimum grade of C in both CIS 001 and CIS 061
Transferable to CSU
Hours: 48-54 lecture*

Emphasizes the creation of interactive web sites using a server-sided scripting language such as ASP.Net, CGI, or Perl. Topics include core features of the server-side scripting language, control structures, functions, arrays, form validations, regular expressions, environmental variables, and database-driven web applications.

CIS 083 Web Server Administration

3.0 Units

*Course Advisory: CIS 001 and CIS 061 with a minimum grade of C
Transferable to CSU
Hours: 48-54 lecture*

Web server installation and administration for the internet and intranet. Topics covered include the installation, configuration, management and tuning of web services, security, online transaction processing, and FTP services.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CIS - Computer Information Science

CIS 085 Digital Publishing with InDesign 3.0 Units

Course Advisory: CIS 001 or CIS 050 with a minimum grade of C
Transferable to CSU
Hours: 48-54 lecture

An introduction to the graphics software program, Adobe InDesign. Students will learn to produce and publish publications, employing vector graphics, and typography as well as color and print management. This course will establish an understanding of the basic features in Adobe InDesign for use in both print and digital media.

CIS 087 Adobe Illustrator for the Web 3.0 Units

Course Advisory: CIS 001 or CIS 050 with a minimum grade of C
Transferable to CSU
Hours: 48-54 lecture.

An introduction to the graphics software program, Adobe Illustrator. Students will learn to create vector shapes, import, export and modify graphics, and use Illustrator tools. This course will establish an understanding of the basic features in Adobe Illustrator for use in digital media.

CIS 089 Essential Networking Technologies 3.0 Units

Course Advisory: CIS 001 with a minimum grade of C
Transferable to CSU
Hours: 48-54 lecture

A general introductory overview of networking. Network design, media, protocols, architectures, operations, and administration will be discussed. Local area networks, wide area networks, and network connectivity (including Internet) are covered. This course is the foundation of all other network classes and helps prepare the student to be successful when taking various certified examinations.

CIS 090 Introduction to PowerPoint 1.5 Units

Course Advisory: CIS 001 or CIS 050 with a minimum grade of C; ability to keyboard 30 wpm
Transferable to CSU
Hours: 24-27 lecture

An introduction to features and design concepts utilized in developing powerful presentations using a package software such as Microsoft PowerPoint.

CIS 091 Microsoft Outlook 1.5 Units

Course Advisory: CIS 001 or CIS 050 with a minimum grade of C; basic keyboarding skills
Transferable to CSU
Hours: 24-27 lecture

An introduction to Outlook's features. Students will work with the Contact address book; Inbox and e-mail; Journal; Notes; Tasks; use Calendar to track and schedule appointments, events and meetings; work with forms and templates; use Outlook with other applications.

CIS 106 Computer Literacy 1.0 Unit

Hours: 16-18 lecture, 8-9 lab.

A brief introduction to information technology for novices. Including an introduction to computer components, as well as hands-on activities utilizing the Windows operating system, word processing and spreadsheet software and the internet.

CIS 110 Wireless LANs 1.5 Units

Course Advisory: CIS 001 with a minimum grade of C
Hours: 24-27 lecture, 8-9 lab

Planning, designing, installing and configuring wireless LANs. The course offers in-depth coverage of wireless networks with extensive step-by-step coverage of IEEE 802.11b/a/g/pre-n implementation, design, security, and troubleshooting.

CIS 162 A+ Computer Hardware Technology 4.0 Units

Hours: 48-54 lecture, 48-54 lab

Presents the structure of modern personal computer architecture including the names, purpose, and characteristics of components such as motherboards, CPUs, RAM, disk drive storage, printers and networks. This course also addresses upgrading computer components, optimizing computer performance, preventative maintenance, safety, and computer hardware troubleshooting. Prepares the student for CompTIA A+ Hardware Service Technician Certification.

CIS 164 4.0 Units

A+ Computer Operating Systems Technology

Course Advisory: CIS 162
Hours: 48-54 lecture, 48-54 lab

Presents the purpose and capabilities of computer operating systems, operating system components and utilities. The course emphasizes initial investigation of personal computer operating systems and demonstrates the uses of the operating system and other software for isolating troubles and completing the repair of personal computers. Prepares the student for CompTIA A+ Operating Systems Technologies certification.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CIS - Computer Information Science

CIS 166 Computer Network+ Technology 4.0 Units

Hours: 48-54 lecture, 48-54 lab

Presents the architecture of computer networks, including the names, purpose, and characteristics of network components such as network interface card (NIC), hubs, routers, cabling and connectors; as well as topologies, protocols and standards. This course also addresses network implementation, network support and troubleshooting. Prepares the student for CompTIA Network+ Computer Network Certification. As a team, in a laboratory environment, the class will assemble and implement a complete network, with a server running a Microsoft server network operation system (NOS) and several computers running the Microsoft Windows XP Professional Operating System. All of the required cabling will be assembled in the lab by the students under the supervision of the instructor.

CIS 168 Computer Security+ Technology 4.0 Units

*Prerequisite**:* CIS 166

Hours: 48-54 lecture, 48-54 lab

Presents the vulnerability, threats, and risks to data and other computer assets from spyware, Trojan horses, viruses, worms, and other security attacks. This course also addresses the fundamental policies and procedures for maintaining the security of a computer network. Prepares the student for the Computing Technology Industry Association's (CompTIA) Security+ Certification.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CJ - Criminal Justice

CJ 001 Introduction to Criminal Justice

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C
General Education: SCC: Area B2; IGETC: Area 4;
CSU: Area D

Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. (C-ID AJ 110)

CJ 002 Concepts of Criminal Law

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C
Transferable to UC/CSU
Hours: 48-54 lecture

A study of the history, philosophy and development of law and various legal systems; case law and legal research; corpus delicti, mental elements, capacity to commit crimes, and defenses; classification of crimes and penalties; elements of major crimes. (C-ID AJ 120)

CJ 011 Community Relations

3.0 Units

Transferable to UC/CSU
Hours: 48-54 lecture

Examines the complex, dynamic relationship between the justice system and the community in addressing crime and conflict. The emphasis is on the challenges and prospects of administering justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution and ethics. (C-ID AJ 160)

CJ 051 Criminal Investigation

3.0 Units

Course Advisory: CJ 001
Transferable to CSU
Hours: 48-54 lecture

Addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. Introduces the fundamentals of investigation, crime scene search and recording, collection and preservation of evidence, scientific aid, interviews and interrogation, follow-up and case preparation. (C-ID AJ 140)

CJ 052 Investigative Report Writing

3.0 Units

Course Advisory: CJ 001; CJ 002; CJ 051
Transferable to CSU
Hours: 48-54 lecture

Presents investigative report writing in criminal justice relative to police, probation, institutional and parole activities. Includes practical experience in preparing field notes, statements, and reports.

CJ 053 Legal Aspects of Evidence

3.0 Units

Course Advisory: CJ 001
Transferable to CSU
Hours: 48-54 lecture

A study of the origin, development, philosophy and constitutional basics of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds of degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. (C-ID AJ 124)

CJ 056 Juvenile Procedures

3.0 Units

Transferable to CSU
Hours: 48-54 lecture

Presents the organization, function, and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures. (C-ID AJ 220)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CJ - Criminal Justice

CJ 057 Criminal Justice Career Development 3.0 Units

Course Advisory: CJ 001

Transferable to CSU

Hours: 48-54 lecture

Examines criminal justice career positions, employment standards and current occupational opportunities in the field. Includes practical aspects of various jobs and provides information and practice in entrance examination taking, oral interviews, and general preparation for various occupations within the criminal justice field.

CJ 058 Fundamentals of Crime and Delinquency 3.0 Units

Course Advisory: CJ 001

Transferable to CSU

Hours: 48-54 lecture

Introduction to major types of criminal behavior, patterns of career offenders, factors which contribute to the production of criminality of delinquency. Includes methods used in dealing with violators in the justice system; the changing roles of police courts and after-care process of sentence, probation, prisons, and parole; changes of the law in crime control and treatment processes.

CJ 059 Interviewing and Counseling 3.0 Units

Course Advisory: CJ 001

Transferable to CSU

Hours: 48-54 lecture

Overview of the interviewing and counseling techniques available to practitioners in law enforcement, the courts, and corrections emphasizing communication and practical skills.

CJ 060 Probation and Parole 3.0 Units

Course Advisory: CJ 001; CJ 058

Transferable to CSU

Hours: 48-54 lecture

Presents the philosophy and history of correctional services. A survey of the correctional sub-systems of institutions by type and function, probation concepts and parole operations. A discussion of correctional employee responsibilities as applied to offender behavior modifications through supervisory control techniques. Covers rehabilitation goals as they affect individual and intimate cultural groups in both confined and field settings.

CJ 062 Legal Aspects of Correction 3.0 Units

Course Advisory: CJ 058

Transferable to CSU

Hours: 48-54 lecture

Presents the legal aspects of corrections and code provisions relative to all phases of the correctional system.

CJ 064 Principles and Procedures of the Criminal Justice System 3.0 Units

Course Advisory: CJ 001

Transferable to CSU

Hours: 48-54 lecture

A detailed study of the role and responsibility of each sub-system within the criminal justice system; an examination of the philosophy, history, structure, operation and interrelation of each sub-system component; a description of procedure from initial entry of the individual into the system to the final disposition.

CJ 070A Forensic Crime Scene Investigation - Basic 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

An introduction to the basic methods and processes used during a forensic examination of a crime scene. This course includes topics such as crime scene and evidence photography, methods of searching for and determining items of evidentiary value, scene sketching and measuring techniques, best practices for evidence collection and packaging, establishing chain of custody, scene integrity, field processing techniques for developing forensic evidence, and crime scene report writing. This course is intended for students seeking a career in forensic science, crime scene investigation, or law enforcement. Field trips may be offered to labs at local or regional forensic labs, coroner's office, or related law enforcement venues.

CJ 070B Forensic Crime Scene Investigation - Advanced 3.0 Units

*Prerequisite**:* CJ 070A

Transferable to CSU

Hours: 48-54 lecture

Advanced forensic examination techniques for crime scene and evidence examination. This course includes topics such as blood spatter reconstruction, shooting trajectory and reconstruction, forensic vehicle examinations, collection of forensic evidence at autopsies, nighttime photography, and crime scene court testimony. This course is intended for students seeking a career in forensic science, crime scene investigation, or law enforcement.

*C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

CJ - Criminal Justice

CJ 080

3.0 Units

The Criminal Justice System Viewed Through a Multi-Cultural Lens

Hours: 48-54 lab

Examines the interaction of law enforcement with various cultures in their respective communities with emphasis on intercultural communications and historical interactions with diverse cultures, races, ethnicities, genders and sexual orientations.

CJ 082

3.0 Units

Victimology: Victims and The Criminal Justice System

Hours: 48-54 lab

A study of crime victims and their interaction with various components of the criminal justice system focusing on the victim's experience within the system. Students will examine data research, various methodologies and victim precipitation theories. The tangible and intangible costs of victimization will also be examined as well as victim services and current trends in the field of victimology.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

COMM - Communication Studies

COMM 001 Introduction to Public Speaking 3.0 Units

General Education: SCC: Area D3; IGETC: Area 1C; CSU: Area A1

Transferable to UC/CSU

Hours: 48-54 lecture

A public speaking course which includes instruction and practice in the various forms of public address and the techniques for orally presenting ideas clearly, concisely, and coherently. Students are required to outline speeches frequently and/or complete a detailed manuscript of the speech; to read a college-level public speaking textbook and apply its principles in the preparation of their speeches; to critically analyze public speeches of various types. (C-ID COMM 110)

COMM 002 3.0 Units

Fundamentals of Persuasive Speaking

General Education: SCC: Area D3; IGETC: Area 1C; CSU: Area A1, A3

Transferable to UC/CSU

Hours: 48-54 lecture

Instruction and practice in the various forms of persuasive speaking including, but not limited to, sales presentations, speeches of praise/blame, propaganda, and opposing viewpoints. Students are required to outline persuasive speeches frequently; to read a college-level persuasive speaking textbook and apply its principles in the preparation of their persuasive speeches; to critically analyze persuasive speeches; and to deliver persuasive speeches of various types. These speeches will be presented in class, in person, to an audience of peers. Faculty evaluation will be done in the classroom in person. (C-ID COMM 190)

COMM 006 Argumentation and Debate 3.0 Units

General Education: SCC: Area D3; IGETC: Area 1C; CSU: Area A1, A3

Transferable to UC/CSU

Hours: 48-54 lecture

Instruction and practice in the principles of argumentation and in the various forms of debate including the analysis of propositions, research, evidence and reasoning. Students are required to practice various forensic debating techniques through the presentation of their outlined advocate/government and opposition cases after investigating major contemporary issues; to read a college level argumentation and debate textbook and apply its principles in the preparation of their cases, and to critically analyze debate cases. These debates will be presented in class, in person, to an audience of peers. Faculty evaluation will be done in the classroom in person. (C-ID COMM 120)

COMM 008 Group Communication 3.0 Units

Transferable to UC/CSU

Hours: 48-54 lecture

Increases students' understanding of group communication behaviors related to problem-solving, decision-making, leadership, group roles, norms and conformity and to prepare students to function more effectively in groups. This course is for students majoring in speech communication, business, international business, education, nursing, and all fields of study and certifications that require group and team-building skills. (C-ID COMM 140)

COMM 010 Interpersonal Communication 3.0 Units

General Education: SCC: Area D3

Transferable to UC/CSU

Hours: 48-54 lecture

Communication principles as applied to different interpersonal communication situations including verbal and non-verbal communication, listening, overcoming barriers to communication, and conflict resolution. (C-ID COMM 130)

COMM 012 Intercultural Communication 3.0 Units

General Education: SCC: Area E; IGETC: Area 4, SCC Cross-Cultural;

CSU: Area D, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the challenges and promises of intercultural communication with application to American culture, subcultures, and different cultures of the world. Specific focus will be development of the ability to acknowledge and understand the unique voice of people from the African, Asian, Latina, Middle Eastern, and Pacific Island cultures as well as co-cultures within the United States. Through lectures, readings, films, group discussions, written and oral assignments, students will learn the skills necessary to achieve positive outcomes when communicating with others that are perceived as different. (C-ID COMM 150)

COMM 015 Oral Interpretation of Literature 3.0 Units

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lecture

Study of literature through oral performance that includes development of skills in the analysis and interpretation of prose, poetry, and dramatic literature. Emphasis on vocal and physical techniques to orally communicate understanding of the literature performed. (C-ID COMM 170)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

COMM - Communication Studies

COMM 049 Speech Honors

1.0 to 3.0 Units

*Prerequisite***: Completion of 30 or more units of transferable college credit including 6 units of transferable COMM; ENGL 001 with a minimum grade of B; an ability to work independently; and permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

An independent study program designed for students who have completed the available Communication Studies offerings and wish to continue work in one of these areas, or work with an instructor in a specialized area of oral communication. The student and instructor design an outlined program of study. Students may take this course up to the maximum number of units over multiple semesters.

COMM 050

1.0 to 4.0 Units

Forensics/Speech Workshop

Transferable to CSU

Hours: 16-18 lecture, 0-162 lab

Provides training in the principles of all forms of competitive speaking, oral interpretation and debate, including participation in intercollegiate competitions and appearances before campus and community groups. Students attend intercollegiate forensic tournaments and festivals or speak before campus or community audiences. Participation may include weekends and off campus travel. This is an Open entry/Open exit course. (C-ID COMM 160)

COMM 060

3.0 Units

Business and Professional Communication

General Education: SCC: Area D3

Transferable to CSU

Hours: 48-54 lecture

Presents practical communication skills to allow students to achieve effective verbal communication in business situations, community activities and other areas of daily life. Areas of discussion include basic practical communication skills. Assignments and exercises are employed to allow students to achieve effective verbal communication in business situations, community activities, and other areas of daily life, including giving and receiving instructions, interviewing, verbal and non-verbal communication.

COMM 075A

3.0 Units

Sports Broadcasting - Fall Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

A professional approach to the basics of on-air and internet sports broadcasting of football, soccer, volleyball and tennis. Areas of concentration include performance training for play-by-play description, color commentary, compiling and organizing statistical data for football, soccer, volleyball and tennis broadcasts. The course includes an in-depth approach to careers in broadcast communication with concentration on all aspects of research preparation and delivery presentation to establish and sustain a career in sports broadcasting in one or more of the following sports: football, soccer, volleyball and/or tennis. Students will be required to attend weekly athletic events to fulfill activity hours. Events typically on TWRF.

COMM 075B

3.0 Units

Sports Broadcasting - Spring Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

A professional approach to the basics of on-air and internet sports broadcasting of baseball, softball, basketball, hockey and swimming. Areas of concentration include performance training for play-by-play description, color commentary, compiling and organizing statistical data for baseball, softball, basketball, swimming and hockey broadcasts. The course includes an in-depth approach to careers in broadcast communication with concentration on all aspects of research preparation and delivery presentation to adequately and effectively establish and sustain a career in sports broadcasting in one or more of the following sports: baseball, softball, basketball, hockey and/or swimming. Students will be required to attend weekly athletic events to fulfill activity hours. Events typically on TWRFS.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

COMM - Communication Studies

COMM 080A

3.0 Units

TV Sports Production - Fall Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Instruction and training in the fundamentals of televised sports productions, both in the studio and on location. The course focuses on all aspects of production: directing, board operation, computer graphics, videography, instant replay and pre- and post-production editing as it pertains to football, soccer, tennis and volleyball. Students required to attend weekly athletic events to fulfill activity hours. Events typically on TWRF afternoons and/or evenings.

COMM 080B

3.0 Units

TV Sports Production - Spring Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Instruction and training in the fundamentals of televised sports productions, both in the studio and on location. The course focuses on all aspects of production: directing, board operation, computer graphics, videography, instant replay and pre- and post-production editing as it pertains to basketball, baseball, softball, basketball, hockey and swimming. Students required to attend weekly athletic events to fulfill activity hours. Events typically on TWRFS afternoons and/or evenings.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

COSM - Cosmetology

COSM 100 Cosmetology I

17.5 Units

Hours: 80-90 lecture, 600-675 lab

The first course in a series that provides the fundamental training towards the state mandated minimum hours designed to prepare the student for the California State Board of Cosmetology examination for licensure. A combination of both lecture and laboratory activities introduces the student to theoretical concepts, principles and practice in the beauty industry. Critical thinking skills are developed in the areas of communication, hair care, nail care, record keeping, and business decorum. Students enrolling in this course must attend the Mandatory Information Sessions. See the schedule of classes for location, dates and times. The cost of start-up materials, uniforms, textbooks, and equipment kit is approximately \$1,000.00. To qualify for the State Board of Cosmetology examination for a cosmetology license, students must have completed all state mandated clocked time including the following: designated subject areas of technical instruction, designated subject areas of practical operations, completed the 10th grade or the equivalent, be at least 17 years of age, and current state or federally issued photographic identification. For more information; www.barbercosmo.ca.gov.

COSM 101 Cosmetology II

17.5 Units

*Prerequisite**:* COSM 100

Hours: 80-90 lecture, 600-675 lab

The second in a series of courses in Cosmetology to provide the training towards the state mandated hours of intensive training and study designed to prepare the student for the California State Board of Cosmetology examination for cosmetology licensing. Focus is on the continued study of the beauty industry. This course provides the students with the opportunity to synthesize and utilize cosmetology knowledge and skills in providing more advanced services for multiple clients.

COSM 102 Cosmetology III

8.5 Units

*Prerequisite**:* COSM 101

General Education: Cosmetology

Hours: 40-45 lecture, 288-324 lab

The third in a series of courses in Cosmetology designed to provide the training towards the state mandated hours and prepare the student for the California State Board of Cosmetology examination for license. Topics include the principles and practices of cosmetology with emphasis on the essential knowledge and skills for license and working within the cosmetology industry. Students are able to increase practical application skills and processes by providing multiple clients with hair care, skin care and nail care services in the client laboratory.

COSM 106 Cosmetology IV

0.5 to 3.0 Units

*Prerequisite**:* COSM 100

Hours: 24-162 lab

Meets the needs of students who are preparing to take the state examination for cosmetology licensure or have not completed state mandates to qualify for the cosmetology state examination. This course reviews basic skills and mandates required by the state board. Reinforcement of entry level industry skills is emphasis of this course. This course is designed to give Cosmetology students a chance to make up hours for Board of Cosmetology certification requirements. Open entry/Open exit.

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COUN - Counseling

COUN 005 Career/Life Planning

3.0 Units

General Education: SCC: Area B2; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lecture

Helps students demonstrate an understanding and appreciation of the impact and significance of career choices on their social, psychological and physiological experiences throughout the life span. This course is also designed to help students identify their interests, skills, values and personality traits (self-assessment profile), conduct career research and exploration, and learn current job seeking skills. Students will analyze the relationship between themselves, their life choices and the ongoing process of career planning and self-development throughout the life span. UC limitation of credit: 3 units Counseling courses numbered 001-009.

COUN 006 University Transfer Success

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture

Provides students with a concrete plan for understanding and succeeding in transferring to a four-year college or university. Topics include the following: Major selection; college options; application processes; academic preparation and student education plans. UC limitation of credit: 3 units Counseling courses numbered 001-009.

COUN 007 Student Life Success

3.0 Units

General Education: CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lecture

An exploration of the sociological, physiological, psychological, and intellectual factors that impact student's academic and personal success over a lifetime. Topics include: accepting personal responsibility, discovering self-motivation, mastering self-management, employing interdependence, increasing self-awareness, adopting life-long learning, developing emotional intelligence, and believing in one's self. UC limitation of credit: 3 units Counseling courses numbered 001-009.

COUN 008

Math, Engineering and Science Achievement (MESA) Enrichment

Transferable to UC/CSU

Hours: 16-18 lecture

Assists students in acquiring the knowledge and skills necessary to reach their educational goals in mathematics, engineering and science-related fields. Topics to be covered include: strengths assessment; math and science study skills; transfer preparation and career strategies. Students will synthesize and compare and contrast information to draw conclusions on course topics. UC limitation of credit: 3 units Counseling courses numbered 001-009.

COUN 015 Valuing Diversity

3.0 Units

General Education: SCC: Area B2, E; IGETC: Area 4;

CSU: Area D, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

An examination of the complexities of interpersonal relationships among several cultures in our society including self-concept, values, beliefs, communication and lifestyle. This course will invite exploration of individual cultural perception in order to promote respect for differences and to develop a sense of community. Examination requirements include written essays that demonstrate critical thinking.

COUN 023 Psychology for Modern Life

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Examines the fundamental concepts of psychology as they relate to daily life. Topics include methods of psychology, stages of personality development, personal relationships, values, communication, motivation, emotions, lifestyle and attitudes. Concepts will be introduced to foster the student's understanding of his/her own personal development. Theories and research will be applied across a diversity of settings.

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COUN - Counseling

COUN 058 Life Management

General Education: SCC: Area B2; CSU: Area E

Transferable to CSU

Hours: 48-54 lecture

A survey of the areas of life which influence decision-making. Students are introduced to areas of human development (emotional, intellectual, physical, and social) which influence decision making. They will analyze and evaluate differences in values, motivation, and goals. Includes introduction to financial, time and stress management, and communication skills. Requires written papers and problem-solving exercises.

3.0 Units

COUN 062

Helping Skills: Creating Alliances & Facilitating Change

Transferable to CSU

Hours: 48-54 lecture

An introduction to the basic helping skills that enable the student to build an alliance, effect change and empower others within a multicultural society. A helping model is introduced and helping skills such as attending, active listening, demonstrating empathy, assessment and referral are discussed, role played and applied in an experiential manner to a number of common challenges. In addition, the pertinent legal and ethical guidelines of the professional helping relationship are presented, discussed and applied throughout the course.

3.0 Units

COUN 064A Practicum I

Prerequisite***: A minimum grade of D in COUN 062, HS 051, and HS 053

Transferable to CSU

Hours: 32-36 lecture, 96-108 lab by arrangement

The first of a two-course sequence in a supervised Human Services practicum experience at an approved agency or educational setting. In order to develop and apply culturally sensitive and ethically sound helping skills, students will work a minimum of 100 hours and participate actively in a two hour weekly seminar. Placement at most sites will involve a criminal background check.

4.0 Units

COUN 064B Practicum II

Prerequisite***: COUN 064A with a minimum grade of D

Course Advisory: HS 055

Transferable to CSU

Hours: 32-36 lecture, 96-108 lab by arrangement

The second semester of a two-course sequence in a supervised Human Services Practicum, required for Human Services majors. Students will further develop culturally and ethically competent helping skills as they continue to work in their approved site or work in a new approved site. Students will continue to hone and apply more advanced and educationally informed helping skills. This additional 100 hours in an approved site and its supporting 2 hour weekly seminar will meet the Human Services certificate and Associate degree requirement and will help students further clarify their potential for a longer range educational and career path in Human Services, Social Work or Counseling. Practicum Sites often require students to pass a criminal background check.

4.0 Units

COUN 091 Foundations for College Success 0.5 Unit

Course Advisory: Possession of all relevant academic records and other test results and transcripts including SAT, ACT, AP and IB

Transferable to CSU

Hours: 8-9 lecture

Provides an in-depth introduction to college and the required initial student education plan. It seeks to maximize the new student's successful experience by introducing Solano College's student support services; certificate, associate degree and transfer preparation requirements; and the essential personal motivators for college success. Students will provide their academic records, e.g. high school and college transcripts, assessments and tests such as SAT/ACT/AP/IB which will assist them in creation of the initial student education plan.

0.5 Unit

COUN 098 Performance Psychology

General Education: CSU: Area E

Transferable to CSU

Hours: 48-54 lecture

Explores the psychological, social and physiological factors influencing optimal performance in life's endeavors including academics, performing arts, sport, and in interpersonal and business relationships. Topics include student evaluation of self care, life balance, confidence, arousal management, motivation, goal attainment, concentration, positive self talk, commitment, uses of imagery and visualization, active listening and demonstrating empathy. Briefly listed as 009 for 2016-2017 catalog.

3.0 Units

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COUN - Counseling

COUN 102A

0.5 Unit

Time Management & Goal Setting

Hours: 8-9 lecture

Introduces goal setting and time management techniques such as analyzing time usage, prioritizing and developing a schedule to assist students to achieve their educational and career goals. Other COUN 102 series courses may be taken concurrently. NOTE: Not open for credit to students who have completed COUN 007 with a minimum grade of C.

COUN 102B

0.5 Unit

Test Taking, Test Anxiety & Memory

Hours: 8-9 lecture

Introduces test taking, test anxiety and memory concepts and techniques to assist students in achieving their educational and career goals. Other COUN 102 series courses may be taken concurrently. Note: Not open for credit to students who have completed COUN 007 with a minimum grade of C.

COUN 102C Study Systems

0.5 Unit

Hours: 8-9 lecture

Introduces note-taking, reading and study environment concepts/strategies and identifies attitudes and learning styles to assist students in achieving their educational and career goals. Other COUN 102 series courses may be taken concurrently. Note: Not open for credit to students who have completed COUN 007 with a minimum grade of C.

COUN 103 Disability and Success

3.0 Units

Hours: 48-54 lecture

College, career, and life preparation course to assist students with disabilities in accessing services and completing their community college and career goals. It includes the SCC Disability Service Program, the College community, community agencies serving people with disabilities, laws and disabilities, coping with a disability, self advocacy, success in the classroom, and a final "Plan for Personal Disability Management." Student will receive a letter grade.

COUN 310

1.0 Unit

Transition to College for Students with Disabilities

Hours: 16-18 lecture

Transition course for high school seniors who are planning on entering the Community College system and receiving Disability Services. It includes the Student Support and Success Program process of entering into college, the difference between college and high school for students with disabilities. Students will obtain a beginning understanding of how to navigate successfully through the Community College system and Disability Services. Pass/No-Pass Only.

COUN 510 Assessment/Orientation/Planning 0.0 Units

Hours: 1 lecture, 2 lab

Mandatory new student assessment, orientation and initial counseling. Includes reading, writing and mathematics assessments; overview of the programs and services that support student retention and success, time management practices, policies and procedures of Solano College and a preliminary Student Education Plan (SEP).

CS - Computer Science

CS 104 Programming in Linux

0.5 Unit

Hours: 24-27 lab

An initial lab to prepare the student for the intense programming language classes using the Linux operating system. The student will learn how to navigate the Linux operating system as a programmer, install a development environment and utility programs, compile and execute programs, and submit completed assignments for grading.

CS 105 Programming in Windows

0.5 Unit

Hours: 24-27 lab

An initial lab to prepare the student for the intense programming language classes using the Windows operating system. The student will learn how to navigate Windows as a programmer, install a development environment and utility programs, compile and execute programs, and submit completed assignments for grading.

CS 110 C++ 1: Fundamentals

3.0 Units

*Prerequisite**:* CS 104 or CS 105 (may enroll concurrently)

Hours: 32-36 lecture, 48-54 lab

An introduction to programming using the C++ language using modern tools in a modern operating system. Course includes hands-on programming of structured algorithms, the study of C++ syntax, and an introduction to structured programming with data definitions and use.

CS 112

3.0 Units

C++ 2: Program Design and Data Structures

*Prerequisite**:* CS 110

Hours: 32-36 lecture, 48-54 lab

A further study of the C++ programming language with design principles of object oriented programming and data structures used in process algorithms. Topics include class and pointer instantiation, virtual functions and templates, overloading, linked lists and vectors, stacks and queues, searching and sorting, binary trees, and quality assurance using exception handling.

CS 114 C++ 3: Project Management

3.0 Units

*Prerequisite**:* CS 112

Hours: 32-36 lecture, 48-54 lab

The application of the C++ programming language in the business, scientific, and entertainment industries. Topics include problem analysis and project design, data and code security, group projects, and project completion and publication. Students will delve deeper into industry specific programming techniques that involve code logic, financial modelling, database interaction, encryption, graphs and trees, and interactive graphics.

CS 120 Python 1: Fundamentals

3.0 Units

*Prerequisite**:* CS 104 or CS 105 (may enroll concurrently)

Hours: 32-36 lecture, 48-54 lab

An introduction to Python programming using modern tools in a modern operating system. Course includes hands-on programming of structured algorithms, the study of Python++ syntax, and an introduction to object-oriented programming with class definitions and instantiation.

CS 122

3.0 Units

Python 2: Program Design and Data Structures

*Prerequisite**:* CS 120

Hours: 32-36 lecture, 48-54 lab

A further study of the Python programming language with design principles of object oriented programming and data structures used in process algorithms. Topics include class and pointer instantiation, virtual functions and templates, overloading, linked lists and vectors, stacks and queues, searching and sorting, binary trees, and quality assurance using exception handling.

CS 124 Python 3: Project Management

3.0 Units

*Prerequisite**:* CS 122

Hours: 32-36 lecture, 48-54 lab

The application of the Python programming language in the business, scientific, and entertainment industries. Topics include problem analysis and project design, data and code security, group projects, and project completion and publication. Students will delve deeper into industry specific programming techniques that involve code logic, financial modelling, database interaction, encryption, graphs and trees, and interactive graphics.

CS 130 Java 1: Fundamentals

3.0 Units

*Prerequisite**:* CS 104 or CS 105 (may enroll concurrently)

Hours: 32-36 lecture, 48-54 lab

An introduction to programming using the Java programming language using modern tools in a modern operating system. Course introduces the student to object oriented programming, Java language syntax, data definitions and use, language components and libraries, and interface and Graphical User Interface (GUI) components.

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CS - Computer Science

CS 132

Java 2: Program Design and Data Structures

*Prerequisite***: CS 130

Hours: 32-36 lecture, 48-54 lab

A further study of the Java programming language with design principles of object oriented programming and data structures used in process algorithms. Topics include class and pointer instantiation, virtual functions and templates, overloading, linked lists and vectors, stacks and queues, searching and sorting, binary trees, and quality assurance using exception handling.

3.0 Units

CS 134 Java 3: Project Management

3.0 Units

*Prerequisite***: CS 132

Hours: 32-36 lecture, 48-54 lab

The application of the Java programming language in the business, scientific, and entertainment industries. Topics include problem analysis and project design, data and code security, group projects, and project completion and publication. Students will delve deeper into industry specific programming techniques that involve code logic, financial modelling, database interaction, encryption, graphs and trees, and interactive graphics.

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DANC - Dance

DANC 004 Dance Appreciation

3.0 Units

General Education: IGETC: Area 3A, 3B; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lab

Explores the development of dance in Western Europe and the United States from ancient times to the present. Explores dance as an emerging art form from the Renaissance to the 20th century. Emphasizes the contemporary dance heritage of the United States. Field Trip may be requested. (Formerly KINE 004)

DANC 004A

1.0 Unit

Beginning Contemporary Modern Dance

*General Education: SCC: Local District Requirements, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 48-54 lab

Introduction to basic contemporary modern dance techniques. This class will focus on proper contemporary modern dance alignment, terminology, center work, movement across the floor, composition and self-expression through movement. Students will study posture and alignment for dance, alignment reference points and basic postural muscles. Students will develop physical strength, flexibility, coordination, and an increase in movement memory. Students will study the basic components of fitness as they relate to dance training and basic health guidelines for nutrition and injury care and prevention. Students will explore a variety of common accompaniments for contemporary modern dance. Basic music notation will be presented in preparation for future dance composition. The history of Modern Dance is included. Interval skills exams and written exams serve to measure student achievement. (Formerly KINE 004A)

DANC 004B Beginning Tap Dance

1.0 Unit

*General Education: SCC: Local District Requirements, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 48-54 lab

Introduction to body placement, body balance, rhythm, coordination, musicality, and a repertoire of the traditional tap (foot) techniques. This course presents lecture information on music, music analysis, understanding basic components of fitness as related to dance, nutrition and basic first aid and injury prevention. History of tap dance as an indigenous American dance form is included. Skills exams and written exams are used to evaluate student achievement. (Formerly KINE 004B)

DANC 004C Intermediate Tap Dance

1.0 Unit

*Prerequisite**:* DANC 004B

*General Education: SCC: Local District Requirements, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 48-54 lab

Explore intermediate tap dance step, patterns, combinations, and choreography. Music theory concepts as they apply to the syncopated rhythms of tap dance are included. The history of tap dance as an indigenous American dance form is discussed. Interval performance exams are used to evaluate student achievement. Written exams are used to evaluate the student's knowledge of technique, music theory, rhythmic patterns, and the historical and cultural significance of tap dance in America. Students will learn to appreciate this dance form via attendance at a dance concert or musical theater performance. (Formerly KINE 004C)

DANC 004D Advanced Jazz Dance

1.0 Unit

*Prerequisite**:* DANC 004P

*General Education: SCC: Local District Requirements, *A; CSU: Area E*

Transferable to UC/CSU

Hours: 48-54 lab

For students who have vocational or avocational interests in dance. Course emphasis is on the skill development and analysis of intermediate-level and advanced-level techniques and patterns. Selected technique syllabi of various dance artists will be presented and studied. Jazz idioms, styles, and the historical and cultural development are included. Participation in the annual dance concert is encouraged. Interval skills exams and written exams serve to evaluate student achievement. Recommended for Kinesiology and Theatre Arts majors.

DANC 004E Dance Production

3.0 Units

*General Education: SCC: Local District Requirements, *A*

Transferable to UC/CSU

Hours: 16-18 lecture, 96-108 lab by arrangement

Designed for dance students interested in public performance. Experiences in student choreography are included in addition to participation in the annual college dance concert. Interval skills exams and written exams serve to evaluate student achievement. Recommended for Theatre Arts Majors. (Formerly KINE 004E)

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DANC - Dance

DANC 004F Beginning Hip-Hop Dance 1.0 Unit

*General Education: SCC: Local District Requirements, *A; CSU: Area E*
Transferable to UC/CSU
Hours: 48-54 lab

Introduction to the fundamentals of beginning hip-hop dance style. Students will learn general patterns as well as the basics of creating their own style and routines. Information describing the history and cultural development of hip-hop as a dance form will be presented. (Formerly KINE 004F)

DANC 004G Dance Choreography 2.0 Units

*General Education: SCC: Local District Requirements, *A*
Transferable to UC/CSU
Hours: 16-18 lecture, 48-54 lab

An overview of the field of choreography and a study of the elements of dance composition as related to a specific form of dance, such as Jazz, Modern, Ballet, Hip-Hop, Ballroom, and Tap, based on individual student need. Students will choreograph dance studies applying a variety of choreographic approaches and techniques. Students will participate in a class, community and/or college performance. Recommended for Kinesiology, Dance/Theatre, or related arts majors. Dance experience recommended. (Formerly KINE 004G)

DANC 004H Beginning Jazz Dance 1.0 Unit

*General Education: SCC: Local District Requirements, *A; CSU: Area E*
Transferable to UC/CSU
Hours: 48-54 lab

Introduces basic jazz techniques, styles, terminology, and history. This course presents lecture information on posture for the dancer, music analysis, understanding basic components of fitness as related to dance, nutrition and injury prevention, and choreography dance notation. The course focuses on sequential development of basic jazz patterns in preparation for future dance composition. Interval skills exams and written exams serve to evaluate student achievement. (Formerly KINE 004H)

DANC 004J Beginning Ballroom Dance 1.0 Unit

*General Education: SCC: Local District Requirements, *A; CSU: Area E*
Transferable to UC/CSU
Hours: 48-54 lab

Introduction to the basic skills and techniques of ballroom dance. This course will also provide a short history, demonstration, and instruction of popular ballroom dances. Following good practice of exercise in dance execution, the students benefit from the activity and the cultural experiences. Dances selected from the following: Cha-Cha, Rumba, Nightclub Two-Step, East & West Coast Swing, Lindy-Hop, Salsa, Tango, Waltz, Samba, Rumba and Merengue. Attention on proper techniques in both lead and follow dance positions, including proper form, footwork, alignment, and correct posture. Music is varied to broaden the experience with different tempo and styles. No prior experience in dance required; partner not required. (Formerly KINE 004J)

DANC 004K Beginning Ballet 1.0 Unit

*General Education: SCC: Local District Requirements, *A; CSU: Area E*
Transferable to UC/CSU
Hours: 48-54 lab

An introduction to beginning classical ballet dance forms, positions, body alignment, patterns, and barre work. The lesson is conducted with the associated French terminology for all movements and steps. The history of ballet is presented and significant choreographers and ballets are discussed. Students will study proper dance posture, the muscular system as it relates to ballet movement and proper nutritional guidelines for the dancer. Basic first aid and injury prevention and treatment for self-care injuries will also be included in lectures. Performance exams and written exams are given to evaluate student achievement. Students will be required to submit a term project on the history of Ballet. (Formerly KINE 004K)

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DANC - Dance

DANC 004M Intermediate Ballet

1.0 Unit

*Prerequisite**:* DANC 004K

*General Education: SCC: Local District Requirements, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

Exposes students to intermediate ballet skills and will expand technical development for artistic growth. Emphasis is on style and the aspects of interpretation of movement needed for development of the classical dancer. Skills exams and written exams are given to evaluate student achievement leading to studio recital or performance. (Formerly KINE 004M)

DANC 004N Beginning Swing Dance

1.0 Unit

*General Education: SCC: Local District Requirements, *A;*

CSU: Area C1, E

Transferable to UC/CSU

Hours: 48-54 lab

An introductory experience of the popular American social dances known as "Swing" and an exploration of the cultural scene that created them. The course surveys historical dance varieties and East Coast/West Coast regional differences as well as the latest trends and styles. Instruction, history, and open dancing will be included in class. Attention is paid to proper technique in both lead and follow dance positions, footwork alignment and posture. (Formerly KINE 004N)

DANC 004P Intermediate Jazz Dance

1.0 Unit

*Prerequisite**:* DANC 004H

*General Education: SCC: Local District Requirements, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

Intermediate-level jazz techniques, styles, and terminology. Students will gain increased knowledge of dance posture and of the muscular functions of the major muscles that affect basic dance movements. Intermediate musical analysis will include 8 count phrasing. The course focuses on sequential development of intermediate jazz dance patterns in preparation for dance composition. Interval skills exams and written exams serve to evaluate student achievement. (Formerly KINE 004P)

DANC 004S Intermediate Swing Dance

1.0 Unit

*Prerequisite**:* DANC 004N

*General Education: SCC: Local District Requirements, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

Gain a higher level of understanding of terminology, music, and history of swing dance and improve their technique around steps, lifts, patterns, and rhythms. A partner is not required. (Formerly KINE 004S)

DANC 004T Intermediate Ballroom Dance

1.0 Unit

*Prerequisite**:* DANC 004J

*General Education: SCC: Local District Requirements, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

Intermediate techniques and styles of ballroom dance. Students will gain improved rhythm, skills, and an increased knowledge of patterns and variations of popular ballroom dances: American Style Waltz, Tango, Cha-Cha, Nightclub Two-Step, Rumba, East Coast Swing, West Coast Swing, Salsa, and Merengue. Increased attention on proper techniques in both lead and follow dance positions including proper form, footwork, alignment, and correct posture. Music is varied to broaden the experience with different tempo and styles. (Formerly KINE 004T)

DRFT - Drafting

DRFT 045

4.0 Units

Introduction to Computer-Aided Drafting (CAD)

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

Introduces the drafting student to CAD (AutoCAD) technology and terminology. The student shall complete a series of related drawing problems using a CAD work station. Fundamentals of creating and modifying engineering and architectural related drawings. This course also introduces students to blocks and advanced layering concepts.

DRFT 055 Mechanical Drafting - Level I

3.0 Units

*Prerequisite**:* DRFT 058 or DRFT 151 (which student may enroll concurrently) and DRFT 045

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Techniques and standards of mechanical drafting. Main topics include orthographic drawings, sections, pictorials, threads, fasteners, basic tolerance concepts, ANSI standards and working drawings. Basic mechanical design principles, with a special emphasis on electro-mechanical packaging, are introduced.

DRFT 058 Solid Modeling with Solidworks

3.0 Units

Course Advisory: knowledge of drafting concepts

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Teaches the basic concepts and skills necessary to create, view, and manipulate objects and engineering drawings in three dimensional space using Solidworks software. Student will create models in 3D printer, output support documentation and drawings, and incorporate design process concepts in designs.

DRFT 060 Architectural Drafting I

3.0 Units

*Prerequisite**:* DRFT 045

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Basic methods and practices of architectural drafting and design. Students will design a complete set of plans for a single family dwelling in accordance with local building regulations. Course includes an introduction to the Title 24 energy requirements and standards. Recommended for non-majors and drafting majors.

DRFT 075 Electronic Drafting

3.0 Units

*Prerequisite**:* DRFT 045

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Designed for drafters to develop skill in reading and drawing plans related to electronics. Topics include terminology, component identification, schematic symbols, cable drawings, electro-mechanical design from the electronic perspective. Special emphasis is placed on basic printed circuit board design. Students will design through-hole and surface mount printed circuit boards.

DRFT 079 Blueprint Reading

3.0 Units

Transferable to CSU

Hours: 40-45 lecture, 24-27 lab

Provides an understanding and interpretation of a variety of blueprints. Emphasizes the ability to recognize and identify features of mechanical blueprints and architectural blueprints. Also includes basic development of freehand sketching abilities.

DRFT 080 Civil Drafting I

3.0 Units

*Prerequisite**:* DRFT 045

Course Advisory: IT 151 with a minimum grade of C

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

An introduction to civil drawing with emphasis on land division, breakdown of survey notes, office procedures and related math computations. Includes instruction in a variety of industry standard maps, including subdivision maps, assessors parcel maps and topographic maps.

DRFT 140 Surveying

3.0 Units

*Prerequisite**:* DRFT 080

Course Advisory: IT 151 with a minimum grade of C

Hours: 32-36 lecture, 48-54 lab

Presents the principles and practices of surveying. Topics include measurement of directions, distances and elevations. Students will learn the use and care of electronic survey equipment, transits, tapes and levels and be introduced to topics that include transverse calculations, horizontal and vertical curves, measuring standards and mapping.

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DRFT - Drafting

DRFT 145 AutoCAD Basics

1.0 Unit

Hours: 16-18 lecture, 8-9 lab

Introduction to AutoCAD (ACAD) software including basic draw and edit commands, file standards, and file printing. Other commands covered include basic layering tools and manager, drawing scales, entity properties and printing. A basic course for anyone wanting to complete simple drawings for work or 2D applications such as a laser cutter. The course is also beneficial to individuals that are required to make minor edits to engineering drawings.

DRFT 151 3D Modeling with Fusion 360

1.5 Units

Hours: 16-18 lecture, 24-27 lab

Covers the use of Fusion 360's 3-Dimensional modeling and editing capabilities. Students will learn to develop 3D objects and assemblies through sketching, modeling and editing tools, before creating drawings and outputting models for 3D printing. This course is especially designed for students interested in Maker Technology. Fusion 360 is a web based program that is free to students and home based inventors. Companies who use Fusion 360 purchase licenses.

DRFT 161

3.0 Units

Introduction to REVIT Architectural Software

Course Advisory: DRFT 060

Course Advisory: Understand architectural concepts and terminology as it relates to a single story house

Hours: 32-36 lecture, 48-54 lab

Introduction to REVIT architectural software, basic commands and software workflow. Students will learn to design architectural structures in 3-Dimensions. Students will create building models using 3D design concepts, incorporate schedules, details and sections, add dimensions and produce working drawings and documentation.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ECON - Economics

ECON 001

3.0 Units

Principles of Economics (Macroeconomics)

*Prerequisite**:* MATH 330 or recommendation based on a Multiple Measures Evaluation

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory course focusing on aggregate economic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth. Online work may be required. (C-ID ECON 202)

ECON 002

3.0 Units

Principles of Economics (Microeconomics)

*Prerequisite**:* MATH 330 or recommendation based on a Multiple Measures Evaluation

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory course focusing on choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure. Online work may be required. (C-ID ECON 201)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

EDUC - Education

EDUC 001 Elementary Teacher Education

2.0 Units

Corequisite: One unit of OCED 090

Course Advisory: ENGL 001 with a minimum grade of C

Transferable to UC/CSU

Hours: 32-36 lecture

Introduction to careers in elementary teacher education. Students will study education from historical, philosophical, and ethical perspectives in K-12. Students will examine pedagogy; California content standards and frameworks; professional performance standards for elementary education; and approaches to teaching diverse learners in contemporary and complex learning environments. Concurrent enrollment in a one-unit OCED 090 class required, with 60 hours fieldwork in an approved elementary education setting.

(EDUC 001 + OCED 090 = C-ID EDUC 200)

EDUC 050 Introduction to Education

3.0 Units

Transferable to UC/CSU

Hours: 48-54 lecture

Survey of American education as a social institution. The course is designed for, but not limited to, students who are considering entering the teaching profession.

EMT - Emergency Medical Technician

EMT 112

Emergency Medical Technician (Basic)

*Prerequisite***: EMT 128

Hours: 80-90 lecture, 96-108 lab

Based on state Emergency Medical Services Association regulations, the goal of the EMT (Basic) course is to acquire essential assessment and treatment skills for the delivery of prompt, efficient and safe pre-hospital emergency patient care. Application of these emergency care skills can minimize the risk of permanent disability to an individual. The course has lecture/discussion sessions and skills practice time. Students will attend a combined minimum of twenty-four (24) hours of observation time with an emergency department and an ambulance service. This clinical experience must include a minimum of ten (10) documented patient contacts wherein a patient assessment and other EMT skills are performed. Students successfully completing the course are eligible to take the National Registry Emergency Medical Technician (Basic) Exam as required by the state of California for certification. Certification enables students to qualify for employment with ambulance services, fire or rescue services, search and rescue crews, ski patrol or related pre-hospital emergency care positions. NOTE: By law, applicants for certification must be at least 18 years of age. Students must present current Basic Life Support for Healthcare Providers course completion card at the mandatory information session in order to enroll in the course. Can be repeated every 2 years.

7.0 Units

EMT 128 Emergency Medical Responder

3.0 Units

Hours: 40-45 lecture, 24-27 lab

Provides the student with the basic emergency care procedures for sick and injured victims as a first responder including but not limited to: cuts, abrasions, broken bones, trauma injuries, burns and respiratory/cardiovascular emergencies.

EMT 213

1.0 Unit

Emergency Medical Technician (Basic) Refresher

*Prerequisite***: A minimum grade of D in EMT 112 or previous EMT 213

Hours: 13.5-15.17 lecture, 13.5-15.17 lab

A review and update of EMT 112 course content and focuses on hands-on practice of all pre-hospital emergency skills, meeting the education requirements for EMT renewal. Topics and skills include: legal issues (including HIPAA), trauma, triage, use of airway/ventilation equipment with CPR, automated external defibrillation (AED), patient exam (medical & trauma), assessments and treatments for breathing, cardiovascular, neurologic, musculoskeletal, soft tissue injury, childbirth and environmental emergencies. Students apply assessments and treatments during pre-planned patient care skills scenarios to meet EMSA requirements for skills verification. May repeat every 1-2 years, *ad infinitum* (as stipulated by EMSA regulations for EMT I refresher and renewal).

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ENGL - English

ENGL 001 College Composition

4.0 Units

Corequisite: LR 010

*Prerequisite**:* Multiple measure criteria based on the recommendation of the English department; or a minimum grade of C+ in AP English; or a minimum score of 90 on the sentence skills section of the assessment test; or a minimum SAT verbal score of 500; or a minimum ACT score of 23; or a grade of Pass in ENGL 370 or 348E or 380 or 348G; or a minimum grade of B in English 360; or concurrent enrollment in English 310D or ESL 094 with a minimum grade of B

General Education: SCC: Area D; IGETC: Area 1A; CSU: Area A2

Transferable to UC/CSU

Hours: 64-72 lecture

A writing course which emphasizes critical reading, expository and argumentative writing, and mastery of library research techniques. It includes instruction and practice in critical thinking, in analytical reading and evaluation of written work, and in the methods of clearly communicating and supporting ideas in organized, coherent essays (min 750 words each). Students are required to write an average of 7500 formal words, including a research paper, based on essays, literature read in class, personal experience, and college-level research. (C-ID ENGL 100)

ENGL 002

4.0 Units

Critical Thinking and Writing About Literature

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 1B; CSU: Area A3

Transferable to UC/CSU

Hours: 64-72 lecture

The development of critical thinking, reading, and writing skills as they apply to the analysis of fiction, poetry and drama, literary criticism, and related non-fiction from diverse cultural sources and perspectives. Emphasis is on the techniques and principles of effective written argument as they apply to literature. (C-ID ENGL 110)(C-ID ENGL 120)

ENGL 004

4.0 Units

Critical Thinking and Composition: Language in Context

*Prerequisite**:* ENGL 001

General Education: SCC: Area D; IGETC: Area 1B; CSU: Area A3

Transferable to UC/CSU

Hours: 64-72 lecture

A study of the process of thought and its representation in writing, focusing on the formation of responsible opinions and their presentation in written argument. This course offers practice in the intellectual skills necessary for critical thinking, including observation, analysis, and research; it provides instruction in the organization, arrangement, and stylistic presentation of informative and argumentative writing; it examines the informative and argumentative writing of others and requires students to write their own analytical and argumentative essays. (C-ID ENGL 105)

ENGL 006 Creative Writing I

3.0 Units

*Prerequisite**:* ENGL 001

General Education: CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory study of creative writing techniques in multiple genres. Students develop self-expression through writing and through individual and class criticism of student work. (C-ID ENGL 200)

ENGL 007 Creative Writing II

3.0 Units

*Prerequisite**:* ENGL 006

General Education: CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

An intermediate study of creative writing techniques. Students refine skills of self-expression through individual and class criticism of student work. Frequent writing and intense individual and class criticism of student work are requirements.

ENGL 010 Creative Writing III

3.0 Units

*Prerequisite**:* ENGL 007

Transferable to UC/CSU

Hours: 48-54 lecture

An advanced study of creative writing skills. Students will be expected to show proficiency in at least one genre (poetry, short story, drama, and novel). Frequent writing, intense individual and class criticism, and the compilation of an individual portfolio of genre-specific creative work are requirements.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ENGL - English

ENGL 018 Introduction to Mythology 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A survey of the major elements of mythology, its history and development as part of the human experience with a central focus on Western mythology, its origins and development as well as its appearance in and influence on literature.

ENGL 021 Introduction to Poetry 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A study of poetry as a form of literature and art. This course examines the elements of poetry, the historical development of the genre, and the major themes treated by poetry.

ENGL 023 Introduction to the Modern Novel 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A study of selected novels written during the 20th Century, including the development of the modern novel as a form of literature and the specific techniques and themes employed by novelists.

ENGL 024 Introduction to the Short Story 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A study of the short story as a form of literature, examining the historical development of the short story, the literary elements of the genre, and the major themes treated by the short story.

ENGL 030 Survey of American Literature I 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A survey of literature written in the United States from the time of early settlement to the end of the Civil War. Through focus on significant works of diverse writers, attention is given to major literary movements and to understanding, comparing, and contrasting the diverse political, religious, social, and cultural elements of literature in the United States. (C-ID ENGL 130)

ENGL 031 Survey of American Literature II 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A survey of literature written in the United States from the end of the Civil War to the present. Through focus on significant works of diverse writers, attention is given to significant literary movements and to understanding, comparing and contrasting the diverse political, religious, social and cultural elements of literature in the United States. (C-ID ENGL 135)

ENGL 036 Multi-Ethnic Literature in America 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area E; IGETC: Area 3B, SCC Cross-Cultural;

CSU: Area C2, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

A study of representative literature by various American multicultural writers: Asian American, African American, European American, Latina/o, and Native American.

ENGL 040 Survey of English Literature I 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A study of major works of British authors from the Anglo-Saxon period through the Eighteenth Century, in poetry, prose, and drama. The course focuses on the development of a literature in English and explores how this literature responds to and shapes its historical and cultural context. It introduces students to the use of critical theory in the analysis of literature. (C-ID ENGL 160)

ENGL 041 Survey of English Literature II 3.0 Units

*Prerequisite**:* ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A study of major works in poetry, prose, and drama from approximately 1798 to the present. The course focuses on the Romantic Movement, the Victorian Age, early 20th Century, modernism, postwar literature, post-colonial literature, and late 20th Century post-modernism. It examines the shifting relationship between literature and its historical and cultural contexts. It introduces students to questions of canon formation and the use of critical theory in the analysis of literature. (C-ID ENGL 165)

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ENGL - English

ENGL 044 Introduction to Shakespeare

3.0 Units

*Prerequisite***: ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Hours: 48-54 lecture

An introduction to Shakespearean drama and poetry through a study of representative comedies, histories, tragedies, and sonnets. Students will be concerned with dramatic and poetic principles as well as with an understanding of the historical context into which Shakespearean drama fits.

ENGL 049 English Honors

1.0 to 3.0 Units

*Prerequisite***: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

An independent study project which generally results in a critical examination of literature of significant creative and/or analytical writing. Students may take this course up to the maximum number of units over multiple semesters. Three to nine hours by arrangement with instructor and School Dean.

ENGL 058

3.0 Units

Creative Writing: The Literary Magazine I

*Prerequisite***: ENGL 001

General Education: SCC: Area C; CSU: Area C2

Transferable to CSU

Hours: 48-54 lecture

A study of the contemporary American literary magazine and the practice of producing its own literary magazine, *The Suisun Valley Review*: requesting submissions, reviewing them, selecting material, arranging contents and determining the format. Students may write creatively and make their work available for class commentary, as well as for possible inclusion in the magazine.

ENGL 059

3.0 Units

Creative Writing: The Literary Magazine II

*Prerequisite***: ENGL 058.

Transferable to CSU

Hours: 48-54 lecture.

An advanced study of the contemporary American literary magazine and the practice of publishing its own literary magazine, *The Suisun Valley Review*, where the student is expected to assume a lead editorial role. Students may write creatively and make their work available for class commentary, as well as for possible inclusion in the magazine.

ENGL 062 Analytical Reading

3.0 Units

*Prerequisite***: Eligibility for ENGL 370

Course Advisory: ENGL 353

Transferable to CSU

Hours: 48-54 lecture

A college-level reading course designed to improve and enhance the student's ability to understand inferential reading passages. Emphasis is on the development of critical reading skills, including the ability to understand the author's point of view and to engage in textual analysis. In addition, the student should develop the ability to successfully critique college-level reading material by analyzing a variety of prose structures.

ENGL 310 Writing Skills Lab

0.5 to 1.5 Units

Hours: 16-54 lab by arrangement

Upon registration, each student's writing sample will be used to identify his/her individual writing problems, and an individualized program will be designed to provide instruction in those problem areas. Credit will be earned upon successful completion and mastery of the student's course of study and an appropriate number of hours as specified in each student's contract. Students may take this course up to the maximum number of units over multiple semesters. This is an Open Entry/Open Exit, Pass/No Pass only course.

ENGL 310A

1.5 Units

Introductory Reading and Writing Skills

Hours: 32-36 lab, 40-45 lab by arrangement

Intensive instruction in developmental language processing skills, reading and writing skills, and general college survival skills. Success in this lab will be based on attendance, satisfactory completion of in-class reading and writing assignments. This is a Pass/No Pass only course.

ENGL 310D Advanced English Skills Lab

1.0 Unit

Corequisite: ENGL 001

Hours: 48-54 lab.

Intensive instruction in advanced reading and writing skills for students who are currently taking ENGL 001 or other transfer-level content courses. This class is designed to help students further hone their craft as writers and readers. Success in this lab will be based on attendance and satisfactory completion of in-class reading and writing assignments. This is a pass/no pass course.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ENGL - English

ENGL 360 Focused English Fundamentals 5.0 Units

*Prerequisite**:* A score of 0-89 on the sentence skills section of the assessment test; OR recommendation of a counselor or English instructor based on a Multiple Measures Evaluation (decided upon by the English department)

Hours: 80-90 lecture

An intensive English course which gives students the tools to read and write the sort of sophisticated texts required of them in transfer level courses.

ENGL 400 5.0 Units

Advanced Technical Writing: Writing in the Scientific Professions

*Prerequisite**:* Admission into the Biomanufacturing Baccalaureate degree program. ENGL 001

Advanced study in technical writing with a focus on writing for the sciences, including memos, forms, resumés, proposals, formal and informal reports, and peer review strategies. Emphasis is on understanding the differences between academic and technical writing, including techniques for organizing, evaluating, and presenting information in the objective style required in modern technical communications, as well as current trends in technology and scientific discourse. Instruction includes writing as a process, from researching a problem to organizing and drafting a document, to testing, revising and editing that document. Students will learn to employ rhetorical strategies for effective visual and document design as well as how to address ethical, cultural, and political issues related to writing in the sciences. Currency in scientific writing and electronic publishing, including peer review, will also be emphasized. This course trains scientists to become more effective, efficient, and confident writers.

ENGR - Engineering

ENGR 001 Introduction to Engineering

2.0 Units

Course Advisory: ENGL 001 with a minimum grade of C
Transferable to UC/CSU
Hours: 16-18 lecture

A first, non-technical course for engineering students and students considering majoring in engineering. Introduction to different engineering fields, the campus life of engineering students, schedule guidelines, opportunities in engineering, engineers' roles in society, ethics in engineering, and strategies and approaches required to survive math, science, and engineering courses. Develops communication skills pertinent to the engineering profession. Possible field trips. (C-ID ENGR 110)

ENGR 003

3.0 Units

Introduction to Ethics in Engineering

General Education: IGETC: Area 3B

Transferable to UC/CSU

Hours: 16-18 lecture

Development of techniques of moral analysis and their application to ethical problems encountered by engineers, such as professional employee rights and whistle blowing; environmental issues; ethical aspects of safety, risk and liability; conflicts of interest. Emphasis on developing the capacity for independent ethical analysis of real and hypothetical cases.

ENGR 014 Introduction to Statistical

4.0 Units

Programming in R for Scientists and Engineers

Course Advisory: A minimum grade of C in MATH 011 (may enroll concurrently) and A minimum grade of C in CIS 001

Hours: 48-54 lecture, 48-54 lab

Advances in computing power have enabled scientists to amass huge amounts of data on everything from genetics to climate science, but there is a need for someone to make sense of this data. In this class we will learn how to perform basic statistical analysis such as writing data frames, creating functions, using variables, statements, and loops and employing statistical concepts such as exploratory data analysis, probabilities, hypothesis tests, regression modeling and data visualization, using the statistical software R.

ENGR 017

5.0 Units

Introduction to Electrical Engineering

*Prerequisite**:* MATH 023 (may enroll concurrently) and PHYS 007

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

A study of basic DC circuit analysis techniques including Kirchhoff's laws, mesh-currents, node-voltages, Thevenin and Norton equivalent circuits, transient and steady-state response of AC passive circuits, power calculations, active circuit elements including operational amplifiers and semiconductor devices. Construction and measurement of electrical circuits using multimeters, oscilloscopes, power supplies, and function generators. Introduction to circuit simulation software.

ENGR 026

4.0 Units

Mathematics and Engineering Problem Solving Using Matlab

*Prerequisite**:* MATH 021 (may enroll concurrently)

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

Covers methodologies for solving mathematics and engineering problems. Students will learn to perform mathematics and engineering computation and visualization using the MATLAB language. Students will write a variety of programs in the MATLAB language. Same as MATH 026. (C-ID ENGR 220)

ENGR 030 Engineering Mechanics: Statics

4.0 Units

*Prerequisite**:* MATH 021 and PHYS 006

General Education: SCC: Area A; IGETC: Area 5A

Transferable to UC/CSU

Hours: 64-72 lecture

A study of the principles of statics of particles and rigid bodies as applied to equilibrium problems of two and three-dimensional structures, and the principles of friction, virtual work, and stability of equilibrium. (C-ID ENGR 130)

ENGR 045 Properties of Materials

4.0 Units

*Prerequisite**:* PHYS 006 and CHEM 001

General Education: IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

Covers the application of basic principles of physics and chemistry to the structure and properties of engineering materials. Special emphasis is devoted to the relationship between microstructure and the mechanical properties of metals, polymers and ceramics, and the electrical, magnetic, and optical properties of materials. Possible field trips. (C-ID ENGR 140 B)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ESL - English as a Second Language

ESL 074

6.0 Units

Intermediate Integrated ESL Skills

*Course Advisory**:* ESL 334 or recommendation to "level 2" according to the ESL guided placement process

Transferable to CSU

Hours: 96-108 lecture

Brings together reading, composition, and grammar skills for intermediate-level ESL students. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph-length compositions, and develop control of a range of sentence structures and verb forms. Not available to students who have completed both ESL 078 and ESL 079. Not available to students who have completed ESL 074A and/or ESL 074B.

ESL 074A

3.0 Units

Intermediate Integrated ESL Skills: Part 1

*Prerequisite**:* ESL 372 and ESL 374; or ESL 334; or ESL 334B; or LOEP

Score: 2/3 scores in the range of 50 - 85

Transferable to CSU

Hours: 48-54 lecture

The first half of a two-part intermediate integrated skills course which brings together reading, composition, and grammar skills for intermediate-level ESL students. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph-length compositions, and develop control of a range of sentence structures and verb forms. Not available to students who have completed ESL 074. Not available to students who have completed both ESL 078 and 079.

ESL 074B

3.0 Units

Intermediate Integrated ESL Skills Part 2

*Prerequisite**:* ESL 372 and ESL 374; or ESL 334; or ESL 334B; or LOEP

Score: 2/3 scores 50-85; or instructor approval

Course Advisory: ESL 074A with a minimum grade of C.

Transferable to CSU

Hours: 48-54 lecture

The second half of a two-part intermediate integrated skills course which brings together reading, composition, and grammar skills for intermediate-level ESL students. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph-length compositions, and develop control of a range of sentence structures and verb forms. Not available to students who have completed ESL 074. Not available to students who have completed ESL 078 and ESL 079.

ESL 077 Conversation/Pronunciation Skills 3.0 Units

Corequisite: ESL 077L

Course Advisory: ESL 373 or recommendation to "level 2" according to the ESL guided placement process

Transferable to CSU

Hours: 48-54 lecture

Offers practice in acquiring patterns of American English grammar and pronunciation for the purpose of conversing clearly and completely. Includes practice in critically evaluating semantic and syntactic contrasts among various languages represented by students.

ESL 077L ESL 077 Lab

0.5 Units

Corequisite: ESL 077

Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions.

Transferable to CSU

Hours: 24-27 lab

Structured listening comprehension and pronunciation practice, basic grammar practice, and elementary word processing practice for students new to the English language who wish to improve their ability to speak and understand clearly. Instruction is individualized. Materials for the lab may be purchased in the bookstore. This is an Open Entry/Open Exit, Pass/No Pass only course.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ESL - English as a Second Language

ESL 094 Advanced ESL Integrated Skills 6.0 Units

Course Advisory: ESL 074 or recommendation to "level 3" according to the ESL guided placement process
Hours: 96-108 lecture

Brings together the reading, composition, and grammar skills offered in the advanced, discrete-skills courses ESL 055, ESL 006, and ESL 087. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph- and essay-length compositions, and practice the grammatical structures necessary to performing a variety of rhetorical tasks. Prepares ESL students for the reading and writing demands of 300-level English courses.

ESL 094A 3.0 Units

Advanced ESL Integrated Skills Part 1

*Prerequisite**:* ESL 078, ESL 079, ESL 074, ESL 074B, or LEOP scores: at least 2/3 scores over 85, or instructor approval

Transferable to CSU

Hours: 48-54 lecture

The first half of a two-semester advanced integrated skills course, bringing together the reading, composition, and grammar skills to prepare non-native English speakers for the reading and writing demands of 300-level English courses. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph- and essay-length compositions, and practice the grammatical structures necessary to performing a variety of rhetorical tasks. Not available to students who have already taken ESL 094. Not available to students who have already taken ESL 055 and ESL 006.

ESL 094B 3.0 Units

Advanced ESL Integrated Skills Part 2

*Prerequisite**:* ESL 074 or both ESL 078 and ESL 079, or both ESL 074A and ESL 074B, or LEOP scores: 2/3 above 85, or instructor approval

Course Advisory: ESL 094A with a minimum grade of C

Transferable to CSU

Hours: 48-54 lecture

The second half of a two-semester advanced integrated skills course, bringing together the reading, composition, and grammar skills to prepare non-native English speakers for the reading and writing demands of 300-level English courses. Students will study vocabulary and comprehension strategies for academic reading, read extensively for fluency, compose paragraph- and essay-length compositions, and practice the grammatical structures necessary to performing a variety of rhetorical tasks. Not available to students who have already completed ESL 094. Not available to students who have already taken ESL 055 and ESL 006.

ESL 330 ESL Lab 0.5 to 1.5 Units

Course Advisory: Familiarity with basic reading and writing skills: English alphabet letter names, numbers, and ability to follow directions
Hours: 24-81 lab

Provides structured listening comprehension and pronunciation practice, basic grammar practice, and elementary word processing practice for students new to the English language who wish to improve their own ability to speak and understand clearly. Students may take this course up to the maximum number of units over multiple semesters. This is an Open Entry/Open Exit, Pass/No Pass only course.

ESL 334 6.0 Units

Introductory Integrated ESL Skills: Reading, Writing, and Grammar

Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions, and ESL recommendation for "Level 1" according to the ESL guided placement process.

Hours: 96-108 lecture.

Introduces reading, writing, and grammar skills for low-intermediate-level ESL students. Students will study vocabulary and comprehension strategies, read for fluency, compose paragraphs, and develop familiarity with basic English sentence patterns and verb forms. Not available to students who have completed ESL 334A or 334B.

ESL 334A 3.0 Units

Introductory Integrated ESL Skills: Reading, Writing, and Grammar Part 1

*Prerequisite**:* LOEP Assessment test score up to 30.

Hours: 48-54 lecture.

The first half of a two-semester introductory integrated skills course, introducing the reading, writing and grammar skills for low-intermediate level non-native English speakers. Students will study vocabulary and comprehension strategies, compose paragraphs and develop familiarity with basic English sentence patterns and verb forms. Not available to students who have completed ESL 334.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

ESL - English as a Second Language

ESL 334B

3.0 Units

Introductory Integrated ESL Skills: Reading, Writing, and Grammar Part 2

*Prerequisite***: LOEP Assessment test scores up to 30.
Course Advisory: ESL 334A with a minimum grade of C.
Hours: 48-54 lecture

The second half of a two-semester introductory integrated skills course, introducing the reading, writing and grammar skills for low-intermediate level non-native English speakers. Students will study vocabulary and comprehension strategies, compose paragraphs and develop familiarity with basic English sentence patterns and verb forms. Not available to students who have completed ESL 334.

ESL 373 ESL Basic Oral Communication Skills 3.0 Units

Corequisite: ESL 373L

Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions and recommendation to "level 1" according to the ESL guided placement process

Hours: 48-54 lecture

For students still developing fluency in spoken English, this course offers practice in mastering the patterns of spoken American English through study of the English sound system (pronunciation), conversation strategies, related grammar, writing, and spelling at a high-beginning level of proficiency with oral communication and listening as the focus.

ESL 373L ESL 373 Lab

0.5 Unit

Corequisite: ESL 373

Hours: 24-27 lab

Provides structured listening comprehension and pronunciation practice, basic grammar practice, note taking practice and elementary word processing practice for students new to the English language who wish to improve their ability to speak and understand clearly. Instruction is individualized. Materials for the Lab may be purchased in the Solano College Bookstore.

ESL 374 Fundamentals of ESL Grammar 3.0 Units

Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions and
ESL Assessment Test Score: Level 3

Hours: 48-54 lecture

Increase fluency and comprehension in speaking, listening, reading and writing English through the careful, guided study of grammar: Present, future and past verb tenses, singular and plural nouns, constructing simple sentences, special verbs and patterns, idioms to facilitate communication, spelling and study skills for learning a language.

ESL 534

0.0 Units

Introductory Integrated ESL Skills: Reading, Writing, and Grammar

Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions, and intake assessment results indicating readiness

Hours: 96-108 lecture

Introduction to reading, writing, and grammar skills for low-intermediate-level ESL students. Students will study vocabulary and comprehension strategies, read for fluency, compose paragraphs, and develop familiarity with basic English sentence patterns and verb forms.

ESL 534A

0.0 Unit

Introductory Integrated ESL Skills: Reading, Writing and Grammar Part 1

Course Advisory: Familiarity with basic reading and writing skills, English alphabet letter names, numbers, and ability to follow directions, and ESL test score for "Level 1."

Hours: 48-54 lecture

The first half of a non-credit, two-semester introductory integrated skills course. This course introduces reading, writing and grammar skills for low-intermediate level English learners. Students will study vocabulary and comprehension strategies, compose paragraphs and develop familiarity with basic English sentence patterns and verb forms.

ESL 573 Oral Communication Skills

0.0 Units

Hours: 48-54 lecture

For students developing fluency in spoken English, this course offers practice in mastering the patterns of spoken American English through study of the English sound system (pronunciation); conversation strategies; and related grammar, writing, and spelling at a high-beginning level of proficiency with oral communication and listening as the focus.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

FIRE - Fire Technology

FIRE 050 Principles of Emergency Services 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

An overview of fire protection; career opportunities in the fire service and related fields; history of fire service and fire protection; fire organization and management; function of public and private protection services; fire departments as part of local government; fire prevention and investigation; building construction; specific fire protection functions; fire and emergency service apparatus and facilities; and introduction to fire protection systems. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

FIRE 051 Fire Behavior & Combustion 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Provides the student with fundamental information and knowledge of the physical and chemical characteristics of matter, fire, hazardous materials, weapons of mass destruction identification and basic extinguishment theory. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology. *Field trip may be required.*

FIRE 053 Fire Prevention Applications 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau. It will also discuss the use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention to fire safety education and detection and suppression systems. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

FIRE 054 Fire Protection Systems 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Provides information relating to the features of design and operation of fire detection and alarm systems and heat and smoke control systems. It will discuss special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. This is a Fire Technology core course and must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

FIRE 056 3.0 Units

Building Construction as it Relates to the Fire Service

Transferable to CSU

Hours: 48-54 lecture

Intended to provide basic information about how buildings are designed and constructed. Through a basic understanding of building construction, the student will acquire an understanding of how buildings will behave under fire conditions. This course will aid in decision making related to fire prevention and fire control with the goal of successful fire ground operations. This course must be completed with a minimum grade of C in order to receive an Associate Degree or Certificate of Achievement in Fire Technology.

FIRE 101 3.0 Units

Principles of Fire and Emergency Services Safety and Survival

Course Advisory: ENGL 001

Hours: 48-54 lecture

Introduction to basic principles and history related to the firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

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FIRE - Fire Technology

FIRE 103 Introduction to the Fire Services 1.0 Unit

Hours: 48-54 lab

An activity course for students who are considering a career as a firefighter or first responder. This course includes instruction on various positions and opportunities that are available in the fire service. Students will become familiar with basic facilities, equipment, tools and tasks that are performed by firefighters.

FIRE 104 Introduction to Emergency Medical Services (EMS) 1.0 Unit

Hours: 48-54 lab

An activity course for students who are considering a career as a firefighter or first responder. The course will include skills in basic first aid, Cardiopulmonary Resuscitation (CPR), bleeding control, and splinting fractures.

FIRE 105 Introduction to Earthquake and Disaster Preparedness 1.0 Unit

Hours: 48-54 lab

This course will provide information about how students should prepare for, and respond appropriately to earthquakes and other disasters.

FIRE 140 Fire Technology Academy 24.0 Units

*Prerequisite**:* FIRE 050, FIRE 101, EMT 128 and a passing grade on the CPAT or PACK test as evidenced by a certificate of completion
Hours: 224-252 lecture, 480-540 lab

A course containing the contents of State Fire Marshal FF1 (2019) curriculum, I-200, IS-700, IS-800, Fire Control I, Fire Control 3A or 3B, Confined Space Awareness, Low Angle Rope Rescue Operational, Hazardous Materials for the First Responder, Auto Extrication, FF1 certification psychomotor and cognitive testing, State Fire Marshal Certified Wildland courses of S-190, S-130, and CALFIRE 56 Hour Basic Course. Successful students who maintained at least an 80% score on each unit and subject covered in this course may become eligible for certification by the State Fire Marshal as a Firefighter I. Additional fees are associated with this course. Fees may include and are not limited to purchase of uniforms, physical fitness attire, State Fire Marshal certificates, and other related costs.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

Foreign Languages

FLNG 101 Cross Age Teaching

2.0 Units

Corequisite: 1 unit of OCED 090

*Prerequisite**:* FREN 002 or SPAN 002

Hours: 32-36 lecture

Weekly seminars will explore how children learn and develop understanding in French and Spanish. Working with a peer partner or partners, students will prepare lesson plans and develop curriculum. Through co-requisite OCED 090, students will work in elementary school classes in Solano County to provide language instruction based on the lesson plans developed.

French

FREN 001 First Semester French

5.0 Units

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2

Transferable to UC/CSU

Hours: 80-90 lecture

An introduction to the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have had two or more years of high school French with a minimum grade of B within the last three years or to students who have completed FREN 031 and/or 032.

FREN 002 Second Semester French

5.0 Units

*Prerequisite**:* FREN 001; FREN 032; or two years of high school French

General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU

Hours: 80-90 lecture

A continuation of FREN 001 introducing the fundamentals of French (listening, speaking, reading, writing and culture) with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Francophone culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress.

FREN 003 Third Semester French

5.0 Units

*Prerequisite**:* FREN 002; or three years of high school French

General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU

Hours: 80-90 lecture

A continuation of FREN 002. This course teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students will continue to interact with authentic language in context and express personal meaning, using different strategies and techniques that go beyond casual conversations, in order to express opinions, make suggestions on familiar topics, discuss some abstract issues, and make plans. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. Students will demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. This course will be taught in French.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

FREN - French

FREN 004 Fourth Semester French

5.0 Units

*Prerequisite**:* FREN 003

General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU

Hours: 80-90 lecture

A continuation of French 003. Reviews and expands knowledge of elements previously learned, while introducing new material. Exposure to the culture and thinking of the French-speaking world. Extensive work is done in reading, writing and conversing in French. Regular quizzes, exams, written and oral assignments required.

FREN 011 Conversational French

3.0 Units

*Prerequisite**:* FREN 002 or FREN 034

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Designed to promote competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. This course emphasizes the practical application of the language, not grammar acquisition or review.

FREN 012 Intermediate French Conversation

3.0 Units

*Prerequisite**:* FREN 011

General Education: IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A continuation of FREN 011 designed to promote competency in the oral use of the language and to increase fluency by expanding beyond previously learned materials, vocabulary and patterns of speech. The course emphasizes the practical application of the language, not grammar acquisition or review, exposing students to global awareness through a rich variety of Francophone cultural sources.

FREN 031 First Semester French, Part I

3.0 Units

General Education: SCC: Area C; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Francophone culture. Exams, quizzes, written and oral assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one semester of FREN 001 requirement of some universities, transfer students must complete the sequence of FREN 031-032. NOTE: Not open for credit to students who have received credit for FREN 001 or to students who have had two or more years of high school French with a minimum grade of B within the past three years.

FREN 032 First Semester French, Part II

3.0 Units

*Prerequisite**:* FREN 031 or one year of high school French

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A continuation of FREN 031 introducing the fundamental elements of the language (listening, speaking, reading, writing and culture) with continued emphasis on language production, grammar, syntax, vocabulary building, and exposure to the French culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester FREN 001 requirement of some universities, transfer students must complete the sequence of FREN 031 and FREN 032. NOTE: Not open for credit to students who have completed FREN 001 or who have had two or more years of high school French with a minimum grade of B within the last three years.

FREN 049 French Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24.0 units of college credit with a

minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study and research, by arrangement with the instructor, in specified fields of study in French or creative writing in French. Students may take this course up to the maximum number of units over multiple semesters.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

GEOG - Geography

GEOG 001 Physical Geography

3.0 Units

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

A spatial study of the Earth's dynamic physical systems and processes. Topics include: Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere.

Emphasis is on the interrelationships among environmental and human systems and processes and their resulting patterns and distributions. Tools of geographic inquiry are also briefly covered; they may include: maps, remote sensing, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). Field trips may be required.

(C-ID GEOG 110)

GEOG 001L Physical Geography Laboratory

1.0 Units

*Prerequisite**:* GEOG 001 (may enroll concurrently)

General Education: IGETC: Area 5C; CSU: Area B3

Transferable to UC/CSU

Hours: 48-54 lab

Designed to provide supplemental exercises in topics covered in Physical Geography lecture. Lab experience will include map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. One or more field trips are required and may occur outside of class time. *(C-ID GEOG 111)*

GEOG 002 Cultural Geography

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success. *(C-ID GEOG 120)*

GEOG 004 World Geography

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions. *A Field trip may be required* with the course. However, if a student cannot attend the trip, there will be an optional research paper assignment. *(C-ID GEOG 125)*

GEOG 006 California Geography

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

A thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical and human landscapes that have evolved as a result of the human-environment interface. A field trip is required.

(C-ID GEOG 140)

GEOG 010

3.0 Units

Introduction to Geographic Information Systems

Course Advisory: Basic computer literacy

General Education: CSU: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Same course as GEOL 010. Not open to students who have completed GEOL 010. Field trips may be required.

(C-ID GEOG 155)

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

GEOL - Geology

GEOL 001 Physical Geology

3.0 Units

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to the principles of geology with emphasis on Earth processes. This course focuses on the internal structure and origin of the Earth and the processes that change and shape it. Online work may be required.
(C-ID GEOL 100)

GEOL 002 Geology Laboratory

1.0 Unit

*Prerequisite**:* GEOL 001 or GEOL 005 (may enroll in either course concurrently).

General Education: IGETC: Area 5C; CSU: Area B3
Transferable to UC/CSU
Hours: 48-54 lab.

Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success. (C-ID GEOL 100L)

GEOL 005 Geology of California

3.0 Units

Course Advisory: GEOL 001
General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to the geology of California, including tectonic processes, geologic structures, physiographic provinces, local rocks and minerals, landforms, natural resources, geologic history, and natural hazards in the state. Field trip will be taken to areas of geologic interest and a field trip report will be required. If the student cannot attend the trip, they will have make-up work.
(C-ID GEOL 200)

GEOL 006 Earth Science

3.0 Units

General Education: IGETC: Area 5A; CSU: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate. (C-ID GEOL 120)
(GEOL 006 + GEOL 006L = C-ID GEOL 120L)

GEOL 006L Earth Science Laboratory

1.0 Unit

*Prerequisite**:* GEOL 006 (may enroll concurrently)
General Education: IGETC: Area 5C; CSU: Area B3
Transferable to UC/CSU
Hours: 48-54 lecture

The laboratory component to Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather, and climate.
(GEOL 006 + GEOL 006L = C-ID GEOL 120L)

GEOL 010

3.0 Units

Introduction to Geographic Information Systems

General Education: CSU: Area B1
Transferable to UC/CSU
Hours: 48-54 lecture

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Same course as GEOG 010. Not open to students who have completed GEOG 010. (C-ID GEOG 155)

GEOL 049 Geology Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.0; completion with a minimum grade of B in GEOL 001, GEOL 005, or GEOL 010; an ability to work independently; and permission of the School Dean based on instructor availability
Transferable to CSU
Hours: 48-162 lab by arrangement

Requires students to engage in an independent student project. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. This project requires the approval of a faculty member sponsor. Students may take this course up to the maximum number of units over multiple semesters.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

HED - Health Education

HED 002 Health Education

3.0 Units

*General Education: SCC: Local District Requirement; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lecture*

A survey course with a multifaceted view of health with physical, mental, and social dimensions. The course extends beyond the structure and function of one's body to include feelings, values, and reasoning. Examinations and a project are required. Satisfies one-half of the Health, Physical Education graduation requirement.

HED 003 Women's Health Issues

3.0 Units

*General Education: SCC: Local District Requirement; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lecture*

A study of health issues that are unique to women with a focus on women's health maintenance and care, and the development of skills and acquisitions of knowledge necessary to make informed choices in health matters of concern to women. Open to all students. Satisfies one-half of the Health, Physical Education graduation requirement.

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HIST - History

HIST 002 World History to 1500

3.0 Units

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D
Transferable to UC/CSU
Hours: 48-54 lecture

An integrated study of world civilizations from their beginnings to 1500. Emphasis will be placed on a critical assessment of the cultural achievements, belief systems and economic, political and social structures of the major global civilizations. We will also study the interconnections that linked these cultures into an integrated world system during the early modern period. (C-ID HIST 150)

HIST 003 World History Since 1500

3.0 Units

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D
Transferable to UC/CSU
Hours: 48-54 lecture

An integrated study of modern global history since 1500. Emphasis will be placed on the emergence of an interconnected world system in the modern era and the impact of that system on societies and cultures around the globe. The ongoing tension between tradition and modernity 'shaped by wars, revolutions, and economic transformations' forms the central theme of the course. (C-ID HIST 160)

HIST 004

3.0 Units

History of Western Civilization to 1500

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D
Transferable to UC/CSU
Hours: 48-54 lecture

Survey of the history of the development of western culture and civilization to the Reformation. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped European societies. (C-ID HIST 170)

HIST 005

3.0 Units

History of Western Civilization Since 1500

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D
Transferable to UC/CSU
Hours: 48-54 lecture

Survey of the history of western civilization from 1500 to the present. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped modern European history. (C-ID HIST 180)

HIST 010 California History

3.0 Units

General Education: SCC: Area B2; IGETC: Area 3B, 4; CSU: Area C2, D
Transferable to UC/CSU
Hours: 48-54 lecture

Survey of California history from the pre-colonial, Native American period to the modern state. Particular emphasis will be placed on the interplay of geographic, economic, political, social and cultural forces that shaped both the development of this diverse state and the experiences of a wide range of peoples who have inhabited it.

HIST 017 History of the United States to 1877

3.0 Units

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2;
CSU: Area C2, D, CSU 2
Transferable to UC/CSU
Hours: 48-54 lecture

Survey of the history of the United States from its Native American, African and European origins through the period of Civil War and Reconstruction. Emphasis is placed on analyzing the major economic, social, political, and cultural events, movements and trends that shaped historical developments, examining cause and effect relationships and interpreting primary and secondary sources. (C-ID HIST 130)

HIST 018

3.0 Units

History of the United States from 1865

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2;
CSU: Area C2, Area D, CSU 2
Transferable to UC/CSU
Hours: 48-54 lecture

Survey of the history of the United States from Reconstruction to the present. Examines the major economic, social, political, and cultural events that shaped the United States and their impact on American life. This course also examines the United States' increasing involvement in world affairs. Special emphasis is placed on analyzing the cause and effect relationships in U.S. history and on the historical interpretation of events and trends in U.S. history. (C-ID HIST 140)

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HIST - History

HIST 028 African American History to 1877 3.0 Units

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2;

CSU: Area C2, D, CSU 2 Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Survey of the African American experience in the United States from African origins to 1877. An emphasis is placed on the role of Africans in the settlement of North America, a comparison of colonial slave systems, and African American strategies of resistance and self-help. The course will examine the contributions of African Americans to the social, political, and economic development of the United States.

HIST 029 African American History Since 1865 3.0 Units

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2;

CSU: Area C2, D, CSU 2

Transferable to UC/CSU

Hours: 48-54 lecture

Survey of the political, social, and economic history of African Americans from Reconstruction (1865) to the present. An emphasis is placed on the transition of African Americans from slavery to freedom, segregation, migration and urbanization, black ideology and leadership, and African American protest movements of the twentieth century. The course will closely examine the role of African Americans in shaping the American nation.

HIST 031 Mexican American/Chicano History 3.0 Units

General Education: SCC: Area B2; IGETC: Area 3B, 4; CSU: Area C2, D

Transferable to UC/CSU

Hours: 48-54 lecture

Survey of Mexican American/Chicano history from the pre-Columbian civilizations of Mexico to the present. The course will emphasize the economic, social, cultural, and political conditions and events that have shaped the history of Mexican Americans/Chicanos in the United States. Special attention is given to the contributions of Mexican Americans and Mexican immigrants to the multi-cultural development of the United States.

HIST 037 Women in American History 3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C

General Education: SCC: Area B1, E; IGETC: Area 3B, 4, CSU 2, SCC Cross-Cultural; CSU: Area C2, D, CSU 2, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

A multi-cultural survey of American history from pre-colonial times to the present examining the impact of ethnic and cultural diversity, class, and gender on the lives of women.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

HORT - Horticulture

HORT 006 Identification and Ecology of Landscape Plant Materials <i>Course Advisory: HORT 050</i> <i>Transferable to UC/CSU</i> <i>Hours: 48-54 lecture, 48-54 lab</i> Study of the identification, growth habits, cultural requirements, and evaluation of landscape plant materials used for ornamental purposes in Western landscapes. Laboratory experience will emphasize the identification and use of the plant materials in various landscape settings. A collection will be required.	4.0 Units	HORT 055 Soils and Fertilizers <i>Transferable to CSU</i> <i>Hours: 32-36 lecture, 48-54 lab</i> Study of the relationships of soils and fertilizers to proper plant growth and emphasizing analysis of soils and fertilizers. Field laboratories will develop management techniques in testing and application through exercises and field trip observations.	3.0 Units
HORT 030 Landscape Design I <i>Course Advisory: HORT 006; HORT 050</i> <i>Transferable to UC/CSU</i> <i>Hours: 32-36 lecture, 48-54 lab</i> Introduction to the skills and techniques of landscape design principles and practices. Laboratories will stress drafting techniques through design projects. Field trips required.	3.0 Units	HORT 056 Landscape Pest Control and Management <i>Transferable to CSU</i> <i>Hours: 48-54 lecture, 48-54 lab</i> Study of horticultural pests, insects, weeds, diseases and other non-pathogenic causes common to the Solano County area emphasizing identification, cultural, rotational, natural and chemical control methods. Mandatory field trips and laboratory experiences will provide experiences in detection, identification and techniques necessary to manage and control various species of plant pests. A collection is required.	4.0 Units
HORT 031 Landscape Design II <i>Prerequisite**:</i> HORT 030 <i>Course Advisory: HORT 050</i> <i>Transferable to UC/CSU</i> <i>Hours: 32-36 lecture, 48-54 lab</i> Presents the association of plant materials according to design principles and their environmental requirements with attention to groupings, arrangements and planting about buildings and other landscape structures. Landscape drafting will be stressed in the laboratory projects culminating in a term design project. Mandatory field trips.	3.0 Units	HORT 070 Landscape Construction and Estimation <i>Course Advisory: HORT 050</i> <i>Transferable to CSU</i> <i>Hours: 32-36 lecture, 48-54 lab</i> Study of the construction of patios, decks, walks, retaining walls, raised planters, mowstrips, fences, overhead structures, masonry work, sprinkler layout and other landscape features with emphasis on building code specifications. Previews contractor's licensing. Site development and construction skills will be developed during the laboratory.	3.0 Units
HORT 050 Introduction to Horticulture <i>General Education: SCC: Area A</i> <i>Transferable to CSU</i> <i>Hours: 32-36 lecture, 48-54 lab</i> Introduction and preview of the nursery, florist, and landscaping industries including elemental landscape design, flower arranging, plant identification, plant propagation, landscape tools, turf care, pest control, soil testing and basic botany. Laboratory experience will develop beginning techniques in propagation, soil testing, and turf and shrub maintenance. Mandatory field trips will be taken to various phases of the industry.	3.0 Units	HORT 071 Irrigation Principles <i>Course Advisory: HORT 055</i> <i>Transferable to CSU</i> <i>Hours: 32-36 lecture, 48-54 lab</i> Study of the principles and management of water development and use in agricultural and horticultural production with special emphasis on water supplies, measurement, movement through soils, application methods, amounts needed and problems of distribution. The field laboratories will develop management techniques through exercises and field trip observations.	3.0 Units

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HORT - Horticulture

HORT 101 Plant Propagation and Production 2.0 Units

Course Advisory: HORT 050

Hours: 16-18 lecture, 48-54 lab

Plant propagation and production practices with emphasis on vegetable crops, greenhouse and nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production.

HORT 301A 2.0 Units

Adaptive Horticulture - Basic Skills and Practices

Hours: 16-18 lecture, 64-72 lab

A horticulture pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn basic horticultural skills in a garden, nursery, greenhouse, and landscape setting. Students will develop an understanding of the cultural requirements of plants and how to care for them. Appropriate workplace skills will be emphasized, safety training and proper tool usage will be incorporated throughout the course. Field trips may be required.

HORT 301B 2.0 Units

Adaptive Greenhouse Management

Hours: 16-18 lecture, 64-72 lab

A greenhouse skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn greenhouse management skills for employment preparation. Field trips may be required.

HORT 301C 2.0 Units

Adaptive Nursery and Landscape Management

Hours: 16-18 lecture, 64-72 lab

A nursery and landscape skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn nursery and landscape management skills for employment preparation. Field trips may be required.

HORT 301D 2.0 Units

Adaptive Vegetable and Orchard Management

Hours: 16-18 lecture, 64-72 lab

A vegetable and orchard skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn vegetable and orchard management skills for employment preparation. Field trips may be required.

HORT 301E Adaptive Plant Propagation 2.0 Units

Hours: 16-18 lecture, 64-72 lab

A Plant propagation skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn propagation management skills for employment preparation. Field trips may be required.

HS - Human Services

HS 001 Introduction to Human Services

3.0 Units

General Education: CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An overview of the history and purpose of human services. Students will familiarize themselves with skills needed to provide culturally responsive services to diverse consumer populations in areas such as social welfare, mental health, substance use, rehabilitation, and child, adult and elder care. Political and economic aspects inclusive of roles and functions of local human services agencies systems will be examined.

HS 053 Serving Special Populations

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

The study of the values, problems, issues, concerns and counseling needs of special population groups including, but not limited to age, gender, ethnicity, socioeconomic status, physical or psychiatric disability, sexual orientation, and chemical dependency characteristics. The course provides students with the insight, knowledge and skills necessary to work with diverse populations in human services settings.

HS 054 Introduction to Group Processes

3.0 Units

*Prerequisite**:* HS 001

Course Advisory: COUN 062 with a minimum grade of C

Transferable to CSU

Hours: 48-54 lecture

An introduction to the theory and dynamics of group interaction including psychoeducational, support and therapeutic context. The various stages and processes of group development are studied using both a conceptual and experiential approach. This course is intended to assist persons who will function as leaders in a variety of small group situations.

HS 055 Introduction To Case Management

3.0 Units

*Prerequisite**:* COUN 062 with a minimum grade of D

Transferable to CSU

Hours: 48-54 lecture

An introduction to the basic concepts and skills of case management. Focusing on the history and purpose of case management, case management concepts, legal and ethical considerations of case management, service planning and delivery, careers in case management and other topics.

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HUMN - Humanities

HUMN 001 What It Means To Be Human 3.0 Units

*Prerequisite***: ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Exploration of what it means to be human by examining human life in several ways such as humans as social beings, language users, thinkers, myth makers, aggressors and peace makers, revolutionaries, scientists, and creators, and media creators and consumers. Inquiry into each category will involve critical thinking, artistic sensitivity, and historical perspective.

HUMN 002 3.0 Units

Humans As Creators: The Media of Creativity

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Exploration of the varieties of ways in which humans demonstrate their creative ability ranging from a study of the creative process itself to an examination of creativity in the arts, in the sciences, and in human organization.

HUMN 003 3.0 Units

Journey In a Multicultural Landscape

General Education: SCC: Area C, E; IGETC: Area 3B, SCC Cross-Cultural;

CSU: Area C2, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

Interdisciplinary course to help students recognize and explore sites of multicultural interaction and conflict in the U.S. by examining at least three different American ethnic cultures as well as cultural issues of gender, disability, sexual orientation, and age. Inquiry into the process of the making and representation of cultural artifacts will enable critical appraisal and appreciation, interpersonal sensitivity and multicultural perspective.

IT - Industrial Technology

IT 050 Alternative Energy Technologies 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Introduces the topics of power generation, transmission, and consumption of both conventional and alternative energy sources. Students will be exposed to an in-depth analysis of the design and use of fossil fuel based systems and then compare those systems to alternatives. Energy use in transportation, industrial, commercial, and residential applications will be examined.

IT 101 Introduction to Mechatronics 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Provides an understanding of how mechatronic technology in our lives works using only basic science and math concepts. This course explores basic mechatronic systems commonly found in industry and focuses on their principles of operation, histories, and relationships to one another. Topics will include an exploration of and science behind basic mechanics, fluid power, electrical power, and control systems. Students will learn about these mechatronic technologies through lecture, classroom discussion, and laboratory experiments and projects.

IT 110 Modern Welding 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Acquaints the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques.

IT 111 Modern Welding 3.0 Units

*Prerequisite**:* IT 110 with a minimum grade of D

Hours: 32-36 lecture, 48-54 lab

Acquaints the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques.

IT 120 Electrical Safety 1.0 to 3.0 Units

Hours: 16-54 lecture

A survey of the proper use, handling, and hazards associated with electrical and electronic equipment. The student will be introduced to the current generally accepted (National Electrical Safety Code) safety practices and procedures associated with power transmission, industrial, and consumer electrical and electronic equipment. This is an Open Entry/Open Exit course. Students may take this course up to the maximum number of units over multiple semesters.

IT 140 Industrial Materials 3.0 Units

Hours: 32-36 lecture, 48-54 lab

A broad overview of the characteristics and comparative qualities of naturally occurring, alloyed and man-made materials used in industry. Testing and practical use of materials are required.

IT 151 Vocational Mathematics 3.0 Units

Hours: 48-54 lecture

Focuses on mathematical functions, plane and solid geometry, measurement systems, algebra, and trigonometry applied to specific vocational areas.

IT 171 Making Things 1 - 3D Technology 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

A hands-on course using 3-Dimensional Computer Aided Drafting (CAD) tools to create objects with a 3D printer and Computer Numeric Controlled (CNC) machine. Students will gain a basic understanding of design to product workflow as well as the basics of 3D printing and CNC machines, including applications and use in industry.

IT 172 Making Things 2 - 2D Technology 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

A hands-on course using 2-Dimensional Computer Aided Drafting (CAD) tools to create objects with a laser cutter and vinyl cutter. Students will gain a basic understanding of safety, design, and project workflow as well as the basics of each machine's uses in industry.

IT 173 Making Things 3 - Tool Use and Safety 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

Introduction to Maker Space terminology and safety standards for hand and power tools in a laboratory setting. Students learn proper usage and applications of common hand and power tools pertinent to Maker Space laboratory and some industrial settings.

IT 174 Making Things 4 - Basic Electronics 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

A hands-on introduction to basic electronics and microcontrollers used in a Maker Space environment. Students will learn basic soldering techniques, electronic terminology and circuitry, and simple programming of devices such as Arduino and Raspberry Pi.

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IT - Industrial Technology

IT 175 Maker Space Technology Lab

1.5 Units

*Prerequisite**:* IT 171, IT 172, IT 173, and IT 174

Hours: 72-81 lab

Utilize the full range of Maker Space equipment to create and design projects in the Maker Space laboratory. Students will create designs using instructor-given parameters in order to gain more skill on machines used in IT 171, IT 172, IT 173 and IT 174.

IT 176 Maker Space Technology Lab II

1.5 Units

*Prerequisite**:* IT 175 and IT 179

Hours: 72-81 lab

Utilize the full range of Maker Space equipment to create and design projects in the Maker Space laboratory. An emphasis will be given to multiple tooled projects (3D printing and electronics or laser cutting and woodworking, for example). Students will create designs using instructor-given parameters, plan projects and analyze results.

IT 179

1.0 Unit

Making Things 5 - Sewing Fundamentals

Hours: 16-18 lecture, 8-9 lab

Introduces students to industry sewing techniques with an emphasis on safe and appropriate operation of consumer and industrial sewing machines and tools. Students produce projects by applying the techniques taught in the course as a foundation to the understanding of pattern construction, manufacturing, and production. Designed for students with little to no sewing experience.

IT 181 Introduction to Drones

3.0 Units

Hours: 48-54 lecture

An introduction to Drones and Unmanned Aerial Vehicles. Provides a starting point to use drones for multiple purposes and careers. Topics include the basics of aviation and flight, classes of drone systems, applications, required equipment, maintenance, mission planning, control systems, recovery systems and regulations. Intended for those looking to become licensed to use drones for commercial purposes such as aerial cinematography, photography, surveying, and imaging.

IT 182 Basic Drone Operations

3.0 Units

*Prerequisite**:* IT 181

Hours: 32-36 lecture, 48-54 lab

Basic flight operation, drone controls, and equipment as well as safety procedures. Students will understand the varied uses of unmanned aviation vehicles (UAV) and learn the Federal Aviation Administration (FAA) guidelines for commercial usage.

IT 183 Drone Photography and Video

3.0 Units

*Prerequisite**:* IT 182

Hours: 32-36 lecture, 48-54 lab

Covers the use of cameras and sensors to capture and analyze aerial photos and video. Camera and sensor mounting, settings, accessories, image analysis, options, software, and best practices will be explored.

IT 184 Remote Pilot Exam Prep

1.5 Units

*Prerequisite**:* IT 182

Hours: 24-27 lecture.

Covers the aeronautical knowledge required to fly drones for commercial purposes. Prepares the student to take the Federal Aviation Administration (FAA) Part 107 examination.

JOUR - Journalism

JOUR 001 Newswriting & Reporting

3.0 Units

*Prerequisite***: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation

Transferable to UC/CSU

Hours: 48-54 lecture

Theory and practice of writing news stories for the media. The student learns effective writing and interviewing strategies, common story structures, grammar and style rules, libel and privacy laws. (C-ID JOUR 110)

JOUR 002

3.0 Units

Introduction to Feature and Magazine Writing

*Prerequisite***: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation

Transferable to UC/CSU

Hours: 48-54 lecture

Theory and practice of feature writing, including profiles, critical reviews, opinion columns, travel, news features and trend stories. Students learn research and reporting methods, grammar and style rules, libel and privacy laws, and tools for marketing their stories.

JOUR 011

3.0 Units

Introduction to Mass Communication

*Prerequisite***: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation

General Education: SCC: Area B2; IGETC: Area 4; CSU:

Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Study of the mass media including newspapers, magazines, radio, television, motion pictures and advertising which examines the standards, ethics, and rights of the media and the relationship of government and the public to the various media forms. Emphasis is on the functions, limitations, and responsibilities of the press, as well as the past, present and future impact on society and the individual. Attention will be given to theories of persuasion, the symbolic power and manipulation of images, and the relationship between information and knowledge. Essay examinations and critical papers are required. (C-ID JOUR 100)

JOUR 050 Grammar & Style for Media Writers 1.0 Unit

*Prerequisite***: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation

Transferable to CSU

Hours: 16-18 lecture

Intensive review of grammar, word use, spelling, and principles of clear, concise writing for the media. This course is a Pass/No Pass only course.

JOUR 059 News Media Laboratory

1.0 Unit

Transferable to CSU

Hours: 48-54 lab

Intended for non-journalism majors to learn the fundamentals of media reporting while working as a staff member of the student news publications, *The Tempest* newspaper and the **SolanoTempest.net** website. Students may work in the areas of writing, photography, illustration or multimedia, and will be introduced to: journalistic laws and ethics, opinion and news writing, covering the campus community, working on deadline, visual communication, and working on a team to produce a journalistic product for distribution to a campus-wide audience. Students are limited to four classes within the Publications Laboratory family. Journalism majors should enroll in Journalism 060.

JOUR 060 Publications Laboratory

3.0 Units

*Prerequisite***: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation

Transferable to CSU

Hours: 144-162 lab

Focuses on creating content and producing the student news publications, *The Tempest* newspaper and the **SolanoTempest.net** website, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in one of the following areas: researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family. (C-ID JOUR 130)

JOUR 061 Publications Laboratory II

3.0 Units

*Prerequisite***: JOUR 060

Transferable to CSU

Hours: 112-126 lecture, 32-36 lab

Intermediate journalism students will broaden their newsgathering skills while creating content for and producing the student news publications, *The Tempest* newspaper and the **SolanoTempest.net** website. This is a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in two of the following areas: researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family. (C-ID JOUR 131)

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JOUR - Journalism

JOUR 062 Publications Laboratory III 2.0 to 3.0 Units

*Prerequisite**:* JOUR 061

Transferable to CSU

Hours: 96-162 lab

Intermediate journalism students will provide editorial leadership and in-depth coverage for the student news publications, *The Tempest* newspaper and the **SolanoTempest.net** website, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in three of the following areas: editorial leadership, in-depth coverage, researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family.

JOUR 064 Publications Portfolio 1.0 Unit

*Prerequisite**:* JOUR 062

Transferable to CSU

Hours: 48-54 lab

Students with prior instruction in reporting, editing, photography, illustration, design or digital media will integrate their journalism skills to provide editorial leadership and/or create published works for the student news publications, *The Tempest* newspaper and the **SolanoTempest.net** website, while learning the basic principles of preparing a professional portfolio. An intermediate class for students preparing for employment in journalism and related fields. Students are limited to four classes within the publications family.

JOUR 075

Intermediate Newswriting and Reporting

*Prerequisite**:* JOUR 001

Transferable to CSU

Hours: 48-54 lecture

A continuation of the introductory newswriting/reporting course and focuses on beat coverage including government, public safety, courts, and education for various news media platforms. Students will learn research and reporting methods and how to report for a variety of news purposes including: news, opinion, social issues, and feature or investigative pieces.

JOUR 099

1.0 to 3.0 Units

Journalism Honors: Field Study

*Prerequisite**:* Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; and permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study course designed for students who have successfully completed at least two journalism classes and wish to do field work. The student works by arrangement with the instructor.

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KINE - Kinesiology

KINE 002A Beginning Swimming

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lab*

Fundamental techniques of swimming, terminology, water adjustment, fluid mechanics, and water safety. Swimming strokes include freestyle and backstroke. Skills and written exams are used to evaluate student achievement.

KINE 002B Intermediate Swimming

1.0 Unit

*Course Advisory: KINE 002A with a minimum grade of C
General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lab*

Intermediate techniques of swimming, terminology, and fluid mechanics. Swimming strokes include freestyle, backstroke, breaststroke, and butterfly. Racing starts, flip turns, and touch turns are taught on a beginning level. Interval training concepts are introduced. Skills and written exams are used to evaluate student achievement.

KINE 002D Swim for Fitness

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lab*

Provides life-long fitness through cardiovascular endurance training and skill development in basic aquatics skills. The major components which make up a swimming workout and the concepts of interval training and sprint and distance training are included. Skills exams and written exams serve to evaluate student achievement.

KINE 003A Beginning Self Defense

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lab*

Equips the student with basic skills and knowledge for protection against physical assault. Includes basic fighting techniques, falls and recoveries, and disengagements with counter-attacks. Also included are developing a self-defense consciousness and knowledge about self-defense and the law.

KINE 003D Beginning Judo

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lab*

A basic judo course including techniques such as falls, holds, chokes, grips, grip breaks, balance breaks, and application of reverse locks. Strategies for the judo contest are included such as defenses, counters, break-up throws, take-downs, and general mat work. A historical overview of the martial arts is offered with an emphasis on the evolution of modern-day judo. Written and skills exams are used to measure student achievement. *Field trip may be required.*

KINE 003E Intermediate Judo

1.0 Unit

*Course Advisory: KINE 003D with a minimum grade of C
General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lab*

Advanced throwing and grappling techniques. Combinations, transitions, and strategies will also be covered. Competition at the local level tournaments will be an option for interested students.

KINE 005C Fitness for Life

2.0 Units

*General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 16-18 lecture, 48-54 lab*

An individualized approach to fitness with a focus on the individual's personal responsibility for his/her fitness and health throughout life. The study of the physiological changes one undergoes as a result of physical conditioning forms the basis for the development of a lifetime fitness plan. Fitness exams and written exams serve to evaluate student achievement.

KINE 005D Circuit Training

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lab*

A fast-paced circuit where students participate in a balanced strength training program that includes upper body, lower body, and core exercises using free weights, machine weights, resistance bands, and their own body weight.

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KINE - Kinesiology

KINE 005E Cardio Conditioning

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

Designed for students who desire a cardiovascular workout. Students will use cardio equipment including treadmills, stationary bikes, elliptical machines, and stair masters. Students may also perform cardio activity outside. Students will learn the important factor of pace, steadily improve their endurance, and learn how to design their own cardiovascular workout to achieve their own personal fitness goals.

KINE 005J Beginning Body Conditioning

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

An activity course that will include all aspects of a complete fitness program: muscle strength and endurance training, cardio-respiratory endurance training, flexibility training, and body composition analysis. Students will learn to design their own exercise programs to achieve their personal fitness goals.

KINE 005K Intermediate Body Conditioning

1.0 Unit

Course Advisory: KINE 005L with a minimum grade of C
*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

An activity course that will include all aspects of a complete fitness program: muscle strength and endurance training, cardio-respiratory endurance training, flexibility training, and body composition analysis. Students will build on their knowledge and fitness levels achieved in the beginning class.

KINE 005M Beginning Weight Training

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

A comprehensive weight training course for men and women with a focus on strength development and muscle hypertrophy. Resistive exercises via free weights and fixed weights are used for the development of every major muscle group. Students will learn to design their own strength training programs to achieve their personal fitness goals.

KINE 005N Intermediate Weight Training

1.0 Unit

Course Advisory: KINE 005M with a minimum grade of C
*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

A comprehensive weight training course for men and women that will build on strength development and muscle hypertrophy developed in the beginning course. Resistive exercises via free weights and fixed weights are used for the development of every major muscle group. Special emphasis will be directed at helping individuals define and concentrate on personalized fitness goals.

KINE 005P Step Aerobics

1.0 Unit

*General Education: SCC: Local District Requirement, *A Transferable to UC/CSU*

Hours: 48-54 lab

An aerobic exercise program utilizing four inch, six inch, and eight inch step platforms. Class format includes warm-up, pre-aerobics, peak aerobics, aerobic cool down as determined by musical beats per minute (BPM). Body toning, strength building and flexibility components of the workout will be included to provide the student with a well-rounded fitness program.

KINE 005Q Elite Fitness Training

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

A lifelong functional fitness training course designed for students who want to challenge their current level of fitness and performance. This course will increase a student's performance and knowledge through research and current training methods.

KINE 005R Functional & Core Training

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU*

Hours: 48-54 lab

A focus on functional and core conditioning for students in physically demanding sports, fitness activities and professions. This course will help improve performance by utilizing the components of endurance, power, agility, strength, speed, stamina, flexibility, coordination, and balance.

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KINE - Kinesiology

KINE 005S Advanced Elite Fitness

1.0 Unit

Course Advisory: KINE 005Q with a minimum grade of C
*General Education: SCC: Local District Requirement, *A; CSU: Area E*
Transferable to UC/CSU

Hours: 48-54 lab

An advanced lifelong functional fitness training and educational course designed specifically for students who want to reach their highest level of fitness and peak performance. This course will increase a students' performance and knowledge by incorporating current research and advanced training methods to increase strength, stamina, and reduce injury risks.

KINE 006A Cardio Kickboxing

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E*
Transferable to UC/CSU

Hours: 48-54 lab

An aerobic exercise program utilizing non-contact kickboxing techniques. Class format includes warm-up, pre-aerobics, peak aerobics and aerobic cool down as determined by musical beats per minutes (BPM). Hand weights, step boxes, and other equipment may be used for additional lower and upper body strength and conditioning. A flexibility cool-down will conclude the exercise session.

KINE 006C Pilates for Fitness

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E*
Transferable to UC/CSU

Hours: 48-54 lab

Utilizes Pilates techniques that can increase strength, flexibility and endurance. Pilates exercises can improve posture, alignment coordination, and balance. This course is targeted to improve core strength and overall fitness.

KINE 006D Intermediate Cardio Kickboxing

1.0 Unit

Course Advisory: KINE 006A with a minimum grade of C
*General Education: SCC: Local District Requirement, *A*
Transferable to UC/CSU

Hours: 48-54 lab

An aerobic exercise program utilizing non-contact kickboxing techniques. Emphasis will be placed on learning a variety of punches and kicks. Hand weights, step boxes, and other equipment may be used for additional lower and upper body strength and conditioning.

KINE 006E Fundamentals of Yoga

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E*
Transferable to UC/CSU

Hours: 48-54 lab

Development of basic yoga postures, breathing practices, stretching and relaxation techniques as methods to improve flexibility, decrease stress and improve physical and mental well-being.

KINE 006F Intermediate Yoga

1.0 Unit

Course Advisory: KINE 006E with a minimum grade of C
*General Education: SCC: Local District Requirement, *A; CSU: Area E*
Transferable to UC/CSU

Hours: 48-54 lab

Expand upon the techniques and philosophies of beginning yoga. Students will be exposed to intermediate postures, various specific yoga systems and additional philosophies of yoga from the masters.

KINE 007D Beginning Golf

1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E*
Transferable to UC/CSU

Hours: 48-54 lab

Beginning instruction and practice in fundamental golf strokes such as putting, chipping, pitching, and driving with irons and woods. Golf rules, strategies, etiquette, and selection and care of equipment are also covered. A field trip to a municipal golf course and golfing range may be required. Golf clubs are available for student use. Students may be responsible for reasonable greens fees.

KINE 007E Intermediate Golf

1.0 Unit

Course Advisory: KINE 007D

*General Education: SCC: Local District Requirement, *A; CSU: Area E*
Transferable to UC/CSU

Hours: 48-54 lab

Intermediate-level instruction and practice in golf strokes such as putting, chipping, pitching, and driving with irons and woods. Golf rules, strategies, etiquette, and selection and care of equipment are also covered. A field trip to a municipal golf course and golfing range may be required. Golf clubs are available for student use. Students may be responsible for reasonable greens fees.

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KINE - Kinesiology

KINE 007F Beginning Archery 1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

Fundamental techniques of archery, terminology, accessories, and history of the sport. Practice and class competitions are provided to enhance skill development. Written and skills exams serve to evaluate student achievement.

KINE 007G Intermediate Archery 1.0 Unit

Course Advisory: KINE 007F

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

Improve archery skills and introduce field archery and dynamic (moving) target shooting. Students will learn to perform at international and Olympic distances.

KINE 008A Beginning Tennis 1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

The fundamental techniques of tennis: forehand, backhand, basic serve, and volley. Terminology, rules, and history are included. Practice, skill drills, and class competition in both singles and doubles are provided to enhance skill development and game strategy. Skills exams and written exams serve to evaluate student achievement.

KINE 008B Intermediate Tennis 1.0 Unit

Course Advisory: KINE 008A with a minimum grade of C

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

Intermediate techniques of tennis: overhead shot, drop shot, volley, serves, and offensive and defensive lobs. Strategy for competitive play is emphasized. Skills exams and written exams serve to evaluate student achievement.

KINE 008D Advanced Tennis 1.0 Unit

Course Advisory: KINE 008B; 1 year experience high school team tennis and/or club tennis tournament experience

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to CSU

Hours: 48-54 lab

Advanced instruction in the techniques, tactics and strategies associated with competitive tennis. Special emphasis placed on drills and competitive play situations.

KINE 008E Beginning Badminton 1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

Basic skills of Badminton: forehand, backhand, service, the clears and the smash. Also covered are singles and doubles strategy. History, terminology, rules and scoring, and care and selection of equipment are included. Skills exams and written exams serve to evaluate student achievement.

KINE 008F Intermediate Badminton 1.0 Unit

Course Advisory: KINE 008E with a minimum grade of C

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

Intermediate badminton skills: clears-cross court, down the line and reverse cross-court; drops - at the net, from the backcourt and from the mid-court; service - forehand and backhand. Also covered are offensive and defensive techniques of the smash. Training drills, agility, endurance and court coverage for competitive play will be taught. Skill exams and written exams serve to evaluate student achievement.

KINE 009A Beginning Basketball 1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

An activity course for the student who desires to play basketball. Basic drills to improve footwork, shooting, passing, ball handling, and rebounding are performed. Basic offensive and defensive concepts are covered to prepare the student for 3 on 3, 4 on 4, and 5 on 5 competition in class. Basketball rules and terminology are included.

KINE 009B Indoor/Outdoor Soccer 1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU

Hours: 48-54 lab

Fundamental techniques of soccer: terminology, rules, and history. Practice, skills drills, and class competitions are provided to enhance skill development and game strategy. A written final exam and skills exams serve to evaluate student achievement.

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KINE - Kinesiology

KINE 009C Intermediate Soccer

1.0 Unit

*Prerequisite**:* KINE 009B

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Intermediate soccer skills acquired through team competition. Emphasis is placed upon offensive and defensive tactics and strategies. Develop knowledge and understanding of the current collegiate soccer rules and fitness.

KINE 009E Intermediate Basketball

1.0 Unit

Course Advisory: KINE 009A with a minimum grade of C

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab.

An activity course covering advanced basketball drills to improve footwork, shooting, passing, ball handling, and rebounding are performed. More advanced offensive and defensive concepts are covered to prepare the student for 3 on 3, 4 on 4, and 5 on 5 competition in class. Basketball rules and terminology are included.

KINE 009F Beginning Baseball

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Fundamental skills of baseball: throwing, catching, fielding, catching fly balls, hitting, bunting, base running, sliding, and playing defensive positions. Offensive and defensive drills practiced in preparation for controlled competition in class. History, rules, and terminology are included. Skills exams and written exams serve to evaluate student achievement.

KINE 009G Softball

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Fundamental techniques of softball, including terminology, rules and history. Practice, skill drills, and class competitions are provided to enhance skill development and game strategy. Skills exams and a written final exam serve to evaluate student achievement. Students must provide their own glove.

KINE 009H Beginning Volleyball

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A comprehensive course that covers the basic volleyball skills: serve, pass, set attack, and block. Skill development is emphasized. This course presents information on team play, rules, history, and basic game strategy. Physical conditioning is an integral part of the course. Skills exams and written exams serve to evaluate student achievement.

KINE 009P Intermediate Volleyball

1.0 Unit

Course Advisory: KINE 009H

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Fundamental volleyball skills at an intermediate level: serve, pass, set, attack, and block. The course focuses on offensive and defensive tactics and strategies in preparation for high-level competitive play. A comprehensive physical conditioning program is included to prepare the player for the rigors of volleyball activity.

KINE 020A Introduction to Kinesiology

3.0 Units

General Education: SCC: Local District Requirement, *A Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. (C-ID KIN 100)

KINE 020S

3.0 Units

Advanced First Aid and Emergency Care

Transferable to UC/CSU

Hours: 48-54 lecture

Prepares individuals who may administer emergency care to the injured and ill. Upon successful completion of the course, students will be knowledgeable in Advanced First Aid and Emergency Care, cardiopulmonary resuscitation (CPR), and Automatic External Defibrillator (AED) for infants, children, and adults. Upon successful completion of the appropriate exam, the student will be eligible for certification in First Responder First Aid and CPR. Required of Kinesiology majors/minors and Transfer Model Curriculum. An additional fee may be required to receive an official American Red Cross CPR card. An American Heart Association certification is required for students pursuing EMT certification. (C-ID KIN 101)

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KINE - Kinesiology

KINE 020V Introduction to Sports Science 3.0 Units

*General Education: SCC: Local District Requirement; CSU: Area E
Transferable to UC/CSU*

Hours: 48-54 lecture

The basic elements of sport sciences including: kinesiology, motor learning, biomechanics, exercise physiology, sports medicine, sport psychology and training theory.

KINE 020W Principles of Fitness & Sports Training 3.0 Units

*General Education: SCC: Local District Requirement; CSU: Area E
Transferable to UC/CSU*

Hours: 48-54 lecture

A comprehensive fitness course that includes the study of the human organism and its reactions to fitness and physical activity. Focus is on the physiological adaptations, exercise training/prescriptions, nutrition, ergogenic aids, environmental factors, and the major medical and health conditions. Written exams and measurements of activity serve to evaluate student achievement.

KINE 057 Introduction to Sports Psychology 3.0 Units

*General Education: SCC: Local District Requirement
Transferable to CSU*

Hours: 48-54 lecture

Introduction to psychological theories, concepts, strategies and skills designed to help individuals overcome the barriers to optimal athletic performance, exercise performance and general health performance. Mental skills such as imagery, goal setting, cognitive restructuring, attentional focusing, arousal regulation, and coping will be presented. With this course students establish a goal(s) and work toward it while aiming to cultivate the ideal mental state that fosters optimal performance.

KINE 078 Fit Ball Training 1.0 Unit

*General Education: SCC: Local District Requirement, *A; CSU: Area E
Transferable to UC/CSU*

Hours: 48-54 lecture

Utilize fitness ball techniques to increase strength, flexibility, endurance and lean body composition. Fitness ball exercises can help to improve and develop functionality and agility through strengthening weak muscles as well as core muscles. Students will learn to safely and effectively execute flexibility exercises and balancing exercises as well as strengthening exercises for all the major muscle groups with and without hand weights. Skill exams and written exams serve to evaluate student achievement.

LR - Learning Resources

LR 010

Information Skills for College and Beyond

General Education: SCC: Area B2, Area D3

Transferable to UC/CSU

Hours: 16-18 lecture

Introduction to information literacy skills necessary for academic, career, and personal life success in the digital age. Psychological, sociological, and physiological implications of information on daily life, education, work, and social relationships will be explored. Critical skills helpful for managing information needs in college, career, and lifelong learning will be emphasized.

1.0 Unit

LR 011

Internet Explored: Advanced Information Competency

Course Advisory: Computer literacy (familiarity with basic computer functions).

Transferable to UC/CSU

Hours: 24-27 lecture

An advanced information competency course evaluating information and exploring information technology in society including Internet, World Wide Web, search engines (e.g., Google, Ask, Live), retrieval systems, and electronic publishing.

1.5 Units

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MATH - Mathematics

MATH 002

4.0 Units

Algebra for Calculus (College Algebra)

*Prerequisite**:* MATH 104 or a Multiple Measures Evaluation. MATH 104 is highly recommended for students who have not completed Algebra 2 or Integrated Math III in high school with a minimum grade of C.

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 64-72 lecture

Develops the skills and introduces the concepts necessary for further study in mathematics, and facilitate the application of those skills and concepts to other fields.

Included is a review of elementary set algebra; the algebra of functions; the real and complex numbers as a field; algebraic, exponential, and logarithmic functions; equations and inequalities of these functions; solution of linear systems, matrix algebra, and introduction to sequences and series. (C-ID MATH 151)

MATH 004 Precalculus and Trigonometry 6.0 Units

*Prerequisite**:* MATH 103 and MATH 104 or recommendation based on a Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 96-108 lecture

A comprehensive study of mathematics that is prerequisite to the calculus sequence. Topics included are the study of polynomial, absolute value, radical, rational, exponential, and logarithmic functions, analytic geometry, and polar coordinates. The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, and introduction to vectors. Note: Not open for enrollment to students who have completed Math 051 or Math 002 with a minimum grade of C. Assignments may be given to students that require completion in the Math Activity Center.

MATH 011 Elementary Statistics 4.0 Units

*Prerequisite**:* MATH 104 or MATH 112 or Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 64-72 lecture

An introduction to elementary probability and statistics including the basic rules of probability, probability distributions, descriptive statistics, hypothesis testing, estimation, correlation and regression analysis using data from a variety of disciplines and appropriate technology. Assignments may be given that require completion in the Math Activities Center. (C-ID MATH 110)

MATH 012 Mathematical Ideas 3.0 Units

3.0 Units

*Prerequisite**:* MATH 104 or MATH 112 or Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 48-54 lecture, 16-18 lab

An introduction to the diversity of mathematics through the examination of ideas from logic, sets, the numeration systems, and other topics from contemporary mathematics. The emphasis is on problem solving.

MATH 020 Analytic Geometry and Calculus I 5.0 Units

*Prerequisite**:* MATH 002 and MATH 051; or MATH 004

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 80-90 lecture

First of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is the study of the differential and integral calculus of functions of one variable. Topics covered are limits, continuity, differentiation of algebraic and transcendental functions, applications of the derivative, definite and indefinite integrals, fundamental theorem of calculus, and applications of the definite integral. (C-ID MATH 210)

MATH 021 Analytic Geometry and Calculus II 5.0 Units

*Prerequisite**:* MATH 020

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 80-90 lecture

Second of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, continues the study of the differential and integral calculus of functions of one variable. Topics included are introduction to differential equations, computing area and volume, applications and techniques of integration, polar coordinates, infinite series, improper integrals, and L'Hopital's Rule. (C-ID MATH 220)

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MATH - Mathematics

MATH 022

Analytic Geometry and Calculus III

Prerequisite**: MATH 021

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 64-72 lecture

Third of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is a study of three-dimensional analytic geometry, vectors and vector-valued functions, functions of several variables, the calculus of these functions, and vector analysis including Green's and Stokes' theorems. (C-ID MATH 230)

4.0 Units

MATH 023 Differential Equations

4.0 Units

Prerequisite**: MATH 021

Transferable to UC/CSU

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Hours: 64-72 lecture

Ordinary differential equations emphasizing linear differential equations and systems with applications to engineering, physics, and chemistry. Included are Laplace transforms and power series methods of solution. (C-ID MATH 240)

MATH 026

4.0 Units

Mathematics and Engineering Problem Solving Using Matlab

Prerequisite**: MATH 021 (may enroll concurrently)

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab by arrangement

Covers methodologies for solving mathematics and engineering problems. Students will also learn to perform mathematics and engineering computation and visualization using the MATLAB language. Students will write a variety of programs in the MATLAB language. Same course as ENGR 026.

MATH 030 Business Calculus I

3.0 Units

Prerequisite**: Math 104 or placement based on a Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU:

Area B4

Transferable to UC/CSU

Hours: 48-54 lecture, 16-18 lab

A calculus course with emphasis placed on applications of calculus concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied. (C-ID MATH 140)

MATH 031 Business Calculus II

3.0 Units

Prerequisite**: MATH 030 or placement based on a Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 48-54 lecture, 16-18 lab

A continuation of the calculus of functions of one variable (MATH 030). Topics included are the fundamental theorem of calculus, techniques of integration, numerical methods of integration, functions of several variables, elementary differential equations, and infinite series.

MATH 040 Introduction to Linear Algebra

3.0 Units

Prerequisite**: MATH 021

Course Advisory: A relatively high degree of mathematical maturity is required for this course

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to linear algebra, with a focus on finite dimensional real vector spaces. Topics include systems of linear equations and matrices, linear transformations, general vector spaces, eigenvectors and eigenvalues and associated eigenspaces, inner products and orthogonality. (C-ID MATH 250)

MATH 049 Mathematics Honors

1.0 to 3.0 Units

Prerequisite**: MATH 021 with a minimum grade of B

General Education: CSU: Area B4

Transferable to CSU

Hours: 48-162 lab by arrangement

Requires students to complete an independent student project under the supervision of a member of the faculty. The project may involve extensive problem solving, research, or data analysis. In all cases, the final written product should show integration and synthesis of ideas. Students may take this course up to the maximum number of units over multiple semesters. This course requires approval of a faculty member sponsor and the Dean of the School of Math & Sciences.

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MATH - Mathematics

MATH 051 Trigonometry

3.0 Units

*Prerequisite***: MATH 103 and MATH 104 or placement based on a Multiple Measures Evaluation
General Education: SCC: Area D2; CSU: Area B4
Transferable to CSU
Hours: 48-54 lecture

Presents the essentials of plane trigonometry to prepare students for subsequent studies in physics, calculus, or related technical programs. Topics include definitions of the trigonometric functions and inverse trigonometric functions, solutions of triangles and applied problems, graphs, trigonometric identities and equations, and the trigonometric form of complex numbers. (C-ID MATH 851)

MATH 055

3.0 Units

Mathematical Concepts for Elementary School Teachers

*Prerequisite***: MATH 104 or MATH 112 or Successful completion of two years of high school algebra or recommendation based on a Multiple Measures Evaluation.
General Education: CSU: Area B4
Transferable to UC/CSU
Hours: 48-54 lecture.

Focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. (C-ID MATH 120)

MATH 103 Plane Geometry

3.0 Units

Course Advisory: MATH 330 or MATH 330B with a minimum grade of C
Hours: 48-54 lecture

The study of Euclidean (plane) geometry through conjecture, proof, and problem solving. Topics include the mathematical relationships of angles, parallels, triangles, quadrilaterals, circles, and solids. Additionally, coordinate geometry transformations are covered. Assignments may be given that require completion in the Math Activities Center.

MATH 104 Intermediate Algebra

5.0 Units

Course Advisory: MATH 330
General Education: SCC: Area D2
Hours: 80-90 lecture, 16-18 lab

An extension of the fundamental algebraic concepts developed in Elementary Algebra. Additional topics include arithmetic operations on functions; composition of functions; basic graphing techniques; absolute value, exponential, logarithmic, quadratic, linear, and polynomial functions; equations of the second degree and their graphs; complex numbers; and systems of linear equations in two and three variables. Assignments may be given that require completion in the Math Activities Center.

MATH 112

4.0 Units

Intermediate Algebra for Liberal Arts

Course Advisory: A minimum grade of C in MATH 330
General Education: SCC: Area D2
Hours: 64-72 lecture, 16-18 lab

Students will develop their ability to solve problems with algebraic reasoning and learn to effectively communicate their solutions. Topics include number sense, functions, use of linear and exponential functions to model bivariate data, logarithms and an introduction to descriptive statistics and probability. This course is designed to meet the mathematics graduation requirement for an Associate Degree. This course can also be taken by students planning to transfer to a four-year institution and major in an area of liberal arts (non-STEM majors) that requires either Statistics (MATH 011) or Math Ideas (MATH 012). Students who need a calculus course must take MATH 104 in preparation for pre-calculus. All transfer students should consult with a counselor or mathematics instructor for advice on whether to take MATH 112 or MATH 104. Lab hours may be scheduled or TBA depending on the section. Students are expected to complete both the lecture and lab portions of the course.

MATH 160 Math for Nursing School Students **0.5 Unit**

*Prerequisite***: Current acceptance or on the waiting list of an RN Program.
Hours: 8-9 lecture

Focuses on mathematics topics that are critical to success for students entering an RN program. This course provides a review of select mathematics topics for students entering nursing school. It is especially designed for students that have had an extended time period between finishing their pre-nursing requirements and entering nursing school. Pass/No Pass only course.

MATH 305 Prepare for Math Success **0.5 Unit**

Hours: 8-9 lecture

Review basic skills math topics from the last math course previously completed with the online math review program. In addition, students will explore and improve their math study skills. Students will need access to the internet.

MATH 310 Arithmetic

3.0 Units

Hours: 64-72 lecture

A course in basic mathematical computations designed to improve arithmetic skills and prepare the student for a pre-algebra level math course. Major topics include whole numbers, fractions, decimals, percents, simple geometry, measurement, and basic statistics.

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MATH - Mathematics

MATH 311 Elementary Statistics Support

0.5 Unit

Corequisite: MATH 011

Hours: 32-36 lab

A review of the core prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in MATH 011, Elementary Statistics. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Concepts are taught through the context of descriptive data analysis. Additional emphasis is placed on solving and graphing linear equations and modeling with linear functions. Enrollment in the course may occur as a result of the recommendation of a counselor or math instructor based on a Multiple Measures Evaluation. This course is Pass/No Pass only.

MATH 320 Pre-Algebra

4.0 Units

Hours: 64-72 lecture, 16-18 lab

Designed to prepare the student for transition into a beginning algebra course. Major topics include operations on integers and rational numbers, the order of operations, introduction to variables, simplifying and evaluating expressions, solving basic linear equations, proportions, percents, basic geometry, graphing, and application problems.

MATH 330 Elementary Algebra

5.0 Units

Course Advisory: MATH 320 with a minimum grade of C

Hours: 80-90 lecture

Introductory examination of the structure of the number system. Covers such topics as an introduction to set operations, the field axioms of the real numbers, and the properties of the whole number exponents. Emphasizes operations with fundamental expressions, solutions of first-degree equations, inequalities and linear systems. Introduces absolute value, radical and quadratic equations, applied problems involving first and second degree equations in one variable, point-slope and slope-intercept equations of lines and their graphs, and the concepts of relations and functions. Not open to students who have passed MATH 330A.

MATH 330A Elementary Algebra, Part I

3.0 Units

Course Advisory: MATH 320 with a minimum grade of C

Hours: 48-54 lecture

Introductory examination of the structure of the number system. Covers such topics as an introduction to the concept of set operations, the field axioms of the real numbers, order of operations, properties of whole number exponents, variables, variable expressions, operations with monomials, definition of a polynomial, addition and subtraction of polynomials, linear equations, graphing linear equations, linear inequalities, and systems of linear equations, solutions of first degree equations and inequalities in one variable, and applications. A student must take MATH 330B to complete Elementary Algebra. Students who pass MATH 330A are not eligible for MATH 330.

MATH 330B Elementary Algebra, Part II

3.0 Units

Course Advisory: MATH 330A with a minimum grade of C

Hours: 48-54 lecture

Introductory examination of the structure of the number system. Covers such topics as multiplication and division of polynomials, factoring, solving quadratic equations by factoring, operations with rational expressions, simplifying rational expressions, solutions of equations containing rational expressions, roots, radicals and the quadratic formula, and introduction to functions. Successful completion of Math 330B completes Elementary Algebra.

MATH 500 Supervised Tutoring in MATH

0.0 Units

Corequisite: Concurrent enrollment in a MATH course for which tutoring assistance is requested

Hours: 16-180 lab

Provides students with tutorial support for all mathematics courses. Open entry/open exit, ungraded.

MATH 505 Supplemental Instruction: MATH

0.0 Units

Hours: 16-180 lab

An open-entry, open-exit course for students who seek academic support, through supplemental instruction and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: Math 002, 004, 011, 012, 020, 021, 022, 023, 026, 030, 031, 040, 051, 103, 104, 112, 310, 320, 330, 330A, 330B.

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MGMT - Management

MKT - Marketing

MGMT 050 Principles of Management 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

An introduction and comprehensive survey of the theory and practices relevant to the management principles of: planning, organizing, staffing, directing and controlling. The course explores the nature and role of management/supervision in a contemporary environment focusing on the strategic planning, decision-making and problem-solving processes that affect organizational effectiveness and efficiency. Includes quantitative and qualitative methodology used in systems and contingency approach to management.

MGMT 055 Management/Leadership Skills 3.0 Units

Transferable to CSU

Hours: 48-54 lecture

A comprehensive development, analysis, and application of fundamental skills needed for the successful practice of supervision/leadership. This course addresses the quality principles of leadership applied to work processes, decision making and problem solving, communication, stress and time management, and delegating/facilitating in a team environment. The focus of the course is on job-relevant skills. Class exercises are employed to teach the various skills.

MGMT 191 Human Relations 3.0 Units

Hours: 48-54 lecture

A comprehensive study and analysis of the concepts and skills associated with human behavior and relationships. The course stresses effective supervision and leadership practices as applied to human interaction

MGMT 193 Human Resource Management 3.0 Units

Hours: 48-54 lecture

Human resource administration of public and private organizations including personnel and administrative practices. The student will examine the evolution of unions including the various labor relations acts, collective bargaining processes, grievance procedures, and arbitration. Supervisor's and the steward's roles are emphasized for effectively maintaining negotiated contracts. The course focuses on actual personnel problems, principles and methods involved in recruitment, selecting and placement of employees with regard to affirmative action programs, training, experience and aptitude

MKT 171 Introduction to Marketing 3.0 Units

Hours: 48-54 lecture

A comprehensive study and analysis of initiating the marketing process (for both profit and non-profit organizations) with special emphasis on understanding the consumer and detailed studies of demographics and target marketing. Includes the role of marketing research, the process of defining a marketing problem and then systematically collecting and analyzing information to recommend actions to improve an organization's marketing activities.

MKT 172 3.0 Units**Marketing Management and Planning**

Hours: 48-54 lecture.

Marketing methodology related to all channels of distribution including pricing strategies, new product/services, and the development and evaluation of breakthrough opportunities. Practical applications in dealing with government regulations and the career field of sales, promotion/advertising.

MKT 173 Principles of Selling 3.0 Units

Hours: 48-54 lecture

The application of traditional selling skills including the approach, demonstrating the product, answering the customer's objections, and closing the sale to the customer's satisfaction.

MKT 174 Retail Merchandising 3.0 Units

Hours: 48-54 lecture

A comprehensive study of the principles and practices of merchandising management of product/services, with emphasis on store location analysis, layout, customer services, buying, sales promotion, consumer credit, and understanding consumer needs and wants. Course includes practical applications related to start-up of a new business and legal constraints of organizing, selling, advertising, consumer relations and personnel practices.

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MT - Maintenance Technology

MT 120 Principles of Analog Electronics 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of analog electronics as it applies to mechatronics. Studies include an introduction to DC and AC circuitry as well as advanced electronic components, instruments used in the operation, installation, and troubleshooting of electronic systems, schematic diagrams, and breadboarding. Students will construct several kits as part of the class.

MT 121 Electronics 4.0 Units

Hours: 40-45 lecture, 72-81 lab

Introduces the topics of analog and digital electronics. Studies include an introduction to DC and AC circuitry as well as specific analog and digital electronic components, circuits, and instruments used in the operation, installation, and troubleshooting of electronic systems.

MT 122 Principles of Digital Electronics 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of digital electronics as it applies to mechatronics. Studies include an introduction to digital numbering systems, digital codes and logic, registers, memories, Boolean Algebra, and integrated circuits as well as advanced topics in computerized control systems. Students will construct several kits as part of the class.

MT 130 3.0 Units

Principles of Mechanical Power Systems

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of mechanical power systems and mechanical power transmission as it applies to mechatronics. Studies include mechanical theory, mechanical power, thermal systems, hand tools, precision measuring instruments, and mathematics applied to mechanical power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators.

MT 132 Principles of Fluid Power Systems 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of hydraulic and pneumatic systems as they apply to mechatronics. Studies include fluid power systems theory, pumps, actuators, accumulators, filters, meters, valves, control devices, and mathematics applied to fluid power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators.

MT 140 3.0 Units

Principles of Industrial Electrical Systems

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of DC, single-phase and three-phase AC circuits as they apply to mechatronics. Introduces commercial/industrial electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab, electrical and worksite safety is emphasized.

MT 142 Principles of Electrical Machinery 3.0 Units

*Prerequisite**:* MT 120 or MT 140

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of electrical machinery as it applies to mechatronics. Studies include direct-current and alternating-current generators, alternators, transmission equipment, and motors. Students will complete labs and electrical machinery projects. Lab, electrical and worksite safety is emphasized.

MT 162 Robotic Manufacturing Systems 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Presentation of physical principles applied to automated manufacturing systems. Students will develop solutions to manufacturing problems using robots, programmable logic controllers (PLC) and computer numerical control (CNC) manufacturing machines. Students will also apply safety-oriented work habits to the completion of laboratory projects while working individually and in groups.

MT 163 3.0 Units

Advanced Robotics Manufacturing Systems

*Prerequisite**:* MT 162

Hours: 32-36 lecture, 48-54 lab

Advanced programming, vision recognition systems, PLC and HMI integration, and hardware concepts associated with industrial robots. Students in this course will program several robots to work together and with other common automation systems to increase the efficiency and throughput of industrial automation processes. Robot safety procedures including Dual Check Safety (DCS) and other industry standards will be emphasized throughout the course.

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MT - Maintenance Technology

MT 164 Programmable Logic Controllers 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Introduces the student to process control via Programmable Logic Controllers (PLC's). Content includes the popular Allen-Bradley PLC systems and the most common command instructions for the RSLogix 5, RSLogix 500, RSLogix 5000, Micrologix 1000, SLC5 and SLC 500 as well as ControlLogix processors. Troubleshooting and electrical safety are emphasized.

MT 165 3.0 Units

Advanced Programmable Logic Controllers

*Prerequisite**:* MT 164

Hours: 32-36 lecture, 48-54 lab

For PLC (Programmable Logic Controllers) programmers, electricians, maintenance and instrumentation technicians, automation students and professionals that have some experience with basic PLC programming. Topics include Tag-Based programming with ControlLogix PLCs along with the RSLogix 5000 programming suite, process control methods, variable frequency drives, SCADA (Supervisory Control and Data Acquisition), and HMI's (Human Machine Interface).

MT 166 CNC Programming 3.0 Units

Course Advisory: DRFT 151

Hours: 32-36 lecture, 48-54 lab

Operational and theory of Computer Numerical Control (CNC) machinery, with a focus on skill building, safety practices and maintenance to work as an operator. Includes integration of Computer-Aided Design and Computer-Aided Manufacturing (CAM) as well as manual programming techniques.

MT 167 Advanced CNC Programming 3.0 Units

*Prerequisite**:* MT 166 and DRFT 151

Hours: 32-36 lecture, 48-54 lab

Exposes the beginning CNC Machinist to advanced programming techniques for creating basic macro programs, tool and work probing methods, sub programs, sub-routines, 2-axis lathes, 3 + 2 axis mill programming, and 5 axis mill simultaneous programming. Includes preparatory skill and knowledge development in preparation for Haas CNC Operator and/or National Institute for Metalworking Skills (NIMS) certification exams.

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MUSC - Music

MUSC 001 Beginning Theory I

4.0 Units

*Prerequisite**:* MUSC 005 and MUSC 028

Transferable to UC/CSU

Hours: 64-72 lecture

A study of diatonic scales and triads, intervals, diatonic chords, basic harmonic progressions and cadences, part writing, rhythm and meter, sight singing, ear training, dictation, history and performance. Short creative assignments are included to provide experience in the application of materials learned in class. It includes analysis and composition and is required for music majors.

(C-ID MUS 120; MUS 125)

MUSC 002 Beginning Theory II

4.0 Units

*Prerequisite**:* MUSC 001

Course Advisory: MUSC 028

Hours: 64-72 lecture

A continuation of MUSC 001 providing a more in-depth study of scales, triads, diatonic harmonies, part writing, rhythms, sight singing, ear training, dictation, form, history, and performance. It also includes the study of harmonic progression, dominant and non-dominant seventh chords, modulation, secondary function chords, and binary and ternary form. It includes analysis and composition and is required for music majors. (C-ID MUS 130; MUS 135)

MUSC 003 Advanced Theory I

4.0 Units

*Prerequisite**:* MUSC 002

Transferable to UC/CSU

Hours: 64-72 lecture

A continuation of MUSC 002 including the study of 16th- and 18th-century counterpoint, fugue, variation, altered chords, sonata allegro, and rondo forms, and late 19th century writing techniques; practice in rhythmic, melodic, harmonic, and contrapuntal sight singing; ear training, and dictation. This course is required for music majors.

(C-ID MUS 140; MUS 145)

MUSC 004 Advanced Theory II

4.0 Units

*Prerequisite**:* MUSC 003

Course Advisory: MUSC 030

Transferable to UC/CSU

Hours: 64-72 lecture

A continuation of MUSC 003 including a more in-depth study of altered chords and late 19th- and 20th-century writing techniques including: 9th, 11th and 13th chords; altered dominants; chromatic harmony; dodecaphony; set theory; aleatory; minimalism; and analysis techniques. It includes practice in rhythmic, melodic, harmonic and contrapuntal sight-singing, ear-training and dictation. This course is required for music majors.

(C-ID MUS 150; MUS 155)

MUSC 005 Music Fundamentals

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

An Introduction to the elements of music including notation, rhythm and meter, diatonic scales and triads, key signatures, melody, chords and aural skills. Traces the historical and cultural progress of music through the development of musical symbols and their application. No previous musical study is required. (C-ID MUS 110)

MUSC 007

3.0 Units

Jazz and Popular Music in America: Ragtime to Rock

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

A survey of jazz and popular music in America, using an historical approach. Includes listening to and analyzing examples of jazz and popular music in relation to the social, technical and historical trends.

MUSC 008 Music Appreciation

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory examination of how composers and songwriters apply the various elements of music to heighten the expressive impact of a composition. Aspects of melody, rhythm, harmony, tone, and structure are studied through focused listening of works from the Renaissance to contemporary styles of avant-garde and popular music. This course requires no previous musical study. (C-ID MUS 100)

MUSC 009 Wind Ensemble

1.0 Unit

*Prerequisite**:* Ability to play a wind ensemble instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the wind ensemble

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of wind ensemble repertoire. Public performances and/or field trips are required. Repeatable 3 times. (C-ID MUS 180).

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

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MUSC - Music

MUSC 010 Concert Band

1.0 Unit

*Prerequisite**:* Ability to play a concert band instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the concert band

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of concert band literature.

Public performances and/or field trips are required.

Repeatable 3 times. (C-ID MUS 180)

MUSC 011 Symphonic Band

1.0 Unit

Transferable to UC/CSU

General Education: SCC: Area C

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of various styles of symphonic band literature. Symphonic band literature, rehearsal technique, and performance practices are examined.

Public performances and/or field trips are required.

Repeatable 3 times. (C-ID MUS 180)

MUSC 013 Multicultural Music in America **3.0 Units**

General Education: SCC: Area C, E; IGETC: Area 3A, SCC Cross-Cultural; CSU: Area C1; SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

A survey of multicultural music in America; listening to and analyzing examples of multicultural music in relation to social, technical, and historical trends, including the role of music in influencing American attitudes toward ethnic identity, stereotyping, and racial prejudice. This course also examines the uniquely American style resulting from the interaction among musicians of many cultural, racial, national, and ethnic backgrounds.

MUSC 014 Jazz Ensemble

1.0 Unit

*Prerequisite**:* Ability to play at least one instrument commonly used in jazz ensemble.

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement.

The study and performance of jazz ensemble repertoire encompassing a wide variety of music in the jazz style. Public performances and field trips are required.

Repeatable 3 times. (C-ID MUS 180)

MUSC 015 Stage Band

1.0 Unit

*Prerequisite**:* Ability to perform on one or more instruments in the stage band. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the stage band.

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab. 16-18 lab by arrangement

An instrumental ensemble class analyzing and performing stage band music. Public performance required.

Repeatable 3 times. (C-ID MUS 180)

MUSC 016 Symphony Orchestra

1.0 Unit

*Prerequisite**:* Ability to play an orchestral instrument

Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the symphony orchestra.

Transferable to UC/CSU

Hours: 8-9 lecture, 16-18 lab, 8-9 lab by arrangement

The study and performance of orchestral repertoire.

A wide variety of musical literature is covered. Public performances and/or field trips are required. Repeatable 3 times. This is an Open Entry/Open Exit course.

(C-ID MUS 180)

MUSC 017 Chamber Orchestra

1.0 Unit

*Prerequisite**:* Ability to play an orchestral instrument.

Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the chamber orchestra.

General Education: SCC: Area C; IGETC: Area 3A

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of chamber orchestra repertoire.

Public performances and/or field trips are required.

Repeatable 3 times. (C-ID MUS 180)

MUSC 018 Beginning Steel Drum Band

2.0 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab, 16-18 lab by arrangement

An ensemble class with emphasis on music from the Caribbean. Regular rehearsal and performances using steel drums. This class also presents a comparison of Caribbean musical performance styles. Public performances and/or field trips required. Repeatable 3 times.

MUSC 019 Instrumental Ensemble

2.0 Units

Course Advisory: Ability to read music and play an instrument

Transferable to UC/CSU

Hours: 32-36 lecture, 16-18 lab

The study and performance of representative music literature for strings, woodwinds, brass and small mixed group ensembles. Includes improvisation, reading, ensemble practice and outside performance when possible. Repeatable 3 times.

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MUSC - Music

MUSC 020 Choir

1.0 Unit

*Prerequisite**:* Ability to sing in a choir. Students must demonstrate an adequate level of proficiency to participate and perform with the choir.

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

A performing mixed choir (S.A.T.B.) that studies and performs a variety of a cappella and accompanied choral literature. This course teaches fundamentals of reading choral music, using examples from choral literature. Attendance at and involvement in public performances required. Field trips may be required. Repeatable 3 times. (C-ID MUS 180)

MUSC 021 Chorus

1.0 Unit

*Prerequisite**:* Students must demonstrate an adequate level of vocal proficiency to participate in and perform with the Chorus. Audition required.

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

A performing mixed choir (S.A.T.B.) that sings a variety of music, both historical and contemporary. This course teaches fundamentals of reading choral music, using examples from choral literature. Repeatable 3 times. (C-ID MUS 180)

MUSC 023 Handbell Ensemble

2.0 Units

Course Advisory: Previous musical experience is helpful

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab, 16-18 lab by arrangement

Presents the study and performance of music for handbells. Music reading skills, techniques of handbell ringing, and musicianship skills are taught through lecture, rehearsal and performance of various styles of music arranged for handbells. Public performance is required. Repeatable 3 times.

MUSC 024 Master Works Chorale

1.0 Unit

*Prerequisite**:* Audition to assess ability of music reading and vocal skills.

Students must demonstrate an adequate level of vocal proficiency to participate and perform with the Master Works Chorale. Audition required

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 by arrangement

A performing mixed choir (S.A.T.B.) that sings a variety of music, both historical and contemporary, with an emphasis on large choral forms such as oratorios and cantatas, accompanied by instruments. Designed for singers with previous choral experience. Public performance required. Repeatable 3 times. (C-ID MUS 180)

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MUSC 025 Chamber Choir

1.0 Unit

*Prerequisite**:* Audition required to assess ability of music reading and vocal skills. Students must demonstrate an adequate level of vocal proficiency to participate and perform with the Chamber Choir.

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

Advanced study and performance of choral works for the small ensemble. Public performance required. Highly recommended for music majors, especially voice majors. Participation in public performances required. Field trips are required. Repeatable 3 times. (C-ID MUS 180)

MUSC 026 Vocal Jazz Ensemble

1.0 Unit

*Prerequisite**:* Ability to sing in a vocal jazz ensemble. Students must demonstrate an adequate level of proficiency singing in a cappella choral ensembles, reading music and a good concept of the vocal jazz ensemble idiom

General Education: SCC: Area C

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of choral works in the jazz idiom, including development of reading and improvisation skills. Vocalists work with a jazz rhythm section and instrumentalists. Participation in public performance required. Repeatable 3 times. (C-ID MUS 180)

MUSC 027 Elementary Piano Part I

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

An introduction to beginning piano techniques, including hand position, posture, fingering, technical exercises, note reading, sight reading, and performance of piano literature. Numerous examples are assigned to demonstrate the essentials of reading and counting skills, coupled with the presentation of major and minor scales, chords, and other fundamentals of piano playing.

MUSC 028 Elementary Piano Part II

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 027 expanding on the elementary piano techniques by exploring a progressive series of pieces and exercises which develop the reading skills and other concepts used in performance practice. Stresses use of all major and minor scales, arpeggios in exercise form, sight reading, chromatic fingering, and performance.

MUSC - Music

MUSC 029 Intermediate Piano Part I

1.0 Unit

*Prerequisite**:* MUSC 028 with a minimum grade of D
Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

Presents the intermediate level of piano technique and literature. Emphasis is on interpretation, fingering, phrasing, technical studies and exercises including performance. Sight reading and continued development through the mastery of progressive pieces enables the pianist to reach a greater overall skill level and confidence during performance.

MUSC 030 Intermediate Piano Part II

1.0 Unit

*Prerequisite**:* MUSC 029 with a minimum grade of D
Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

Presents more difficult techniques for the intermediate pianist. Emphasizes the culmination of reading skills, motor coordination, knowledge of harmony, exercises and fingering, overall interpretation, dynamics, attention to form, advanced technical problems concerning performance of the literature. Recommended for students seeking a working knowledge in piano, comparable to second year level in the literature.

MUSC 031 Class Lessons in Woodwinds

1.0 Unit

Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

Class instruction in woodwind instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice.

MUSC 032 Class Lessons in Brass

1.0 Unit

Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

Class instruction in brass instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice.

MUSC 033 Class Lessons in Strings

1.0 Unit

Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

Class instruction in strings. Transfer students are required to study four semesters in their major instrument.

MUSC 034 Class Lessons in Percussion

1.5 Units

Transferable to UC/CSU
Hours: 16-18 lecture, 32-36 lab

Class instruction in percussion instruments. Music majors are required to take one unit of instruction in their major instrument. Transfer majors are required to study four semesters in their major instrument. This class requires outside practice.

MUSC 035A Beginning Voice I

1.0 Unit

Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

Group work on the fundamental techniques of singing, including literature of traditional/folk, art, musical theater and popular classics. Includes analysis of individual problems and the opportunity for solo performance. Transfer voice majors should study voice each semester.

MUSC 035B Beginning Voice II

1.0 Unit

*Prerequisite**:* MUSC 035A with a minimum grade of D
Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 035A. Group work on the fundamental techniques of singing, including study of standard vocal literature for solo performance, with increased emphasis in developing vocal and performance skills.

MUSC 036A Intermediate Voice I

1.0 Unit

*Prerequisite**:* MUSC 035B with a minimum grade of D
Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 035B with emphasis on the development of vocal technique and interpretation. Repertoire includes classical compositions from the English, Italian, and German languages. Analysis of individual vocal problems and performance skills is included.

MUSC 036B Intermediate Voice II

1.0 Unit

*Prerequisite**:* MUSC 036A with a minimum grade of D
Transferable to UC/CSU
Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 036A with emphasis on vocal technique and interpretation. Solo repertoire appropriate to intermediate level includes standard voice literature. Analysis of individual vocal problems and performance skills is included.

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MUSC - Music

MUSC 038 Class Lessons in Beginning Guitar 1.5 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab

Presents the principles and techniques of fundamental guitar performance. The course stresses first position techniques, note reading, scales, fingerboard knowledge, chord positions, picking and strum techniques, and performance of selected musical literature appropriate to the beginning level. NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4 units.

MUSC 039 1.5 Units

Class Lessons in Intermediate Guitar

*Prerequisite**:* MUSC 038 or equivalent as assessed by instructor and ability to read simple guitar music

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab

Presents the intermediate instruction level in guitar performance techniques and musical skill. The course covers 3rd and 5th positions, solo performance, musical notation exercise and application, musical interpretation and style, and intermediate literature. NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4 units.

MUSC 040A Applied Music I 0.5 Unit

Corequisite: Student must be concurrently enrolled in a large performance ensemble (MUSC 009, 010, 011, 014, 015, 016, 017, 020, 021, 024 or 025) AND in a music theory class (MUSC 001, 002, 003 or 004)

*Prerequisite**:* Audition: Student must meet the performance standards of an entering first semester college music major as determined by an entrance audition

Hours: 8-9 lab, 16-18 lab by arrangement

Transferable to CSU

The first course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, master classes, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance majors. (C-ID MUS 160)

MUSC 040B Applied Music II 0.5 Unit

Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003, 004)

*Prerequisite**:* MUSC 040A; Audition: Students must meet the performance standards of an entering second-semester college traditional music major as determined by an entrance audition

Transferable to CSU

Hours: 8-9 lab, 16-18 lab by arrangement

The second course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, masterclasses, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance and jazz music majors. (C-ID MUS 160)

MUSC 040C Applied Music III 0.5 Unit

Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 018, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003 or 004)

*Prerequisite**:* MUSC 040B; Audition: Student must meet the performance standards of an entering third-semester college traditional music major as determined by an entrance audition

Transferable to CSU

Hours: 8-9 lab, 16-18 lab by arrangement

The third course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, masterclasses, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance and jazz music majors. (C-ID MUS 160)

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

MUSC - Music

MUSC 040D Applied Music IV

0.5 Unit

Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 018, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003 or 004)

*Prerequisite**:* MUSC 040C; Audition: Student must meet the performance standards of an entering third-semester college traditional music major as determined by an entrance audition

Hours: 8-9 lab, 16-18 lab by arrangement

This final course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, masterclasses, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance and jazz music majors. (C-ID MUS 160)

MUSC 041A Music Majors Piano

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Instruction, practice and application of the techniques of piano performance. Emphasis will be placed on a variety of keyboard skills including harmonic progressions, scales, fingerings, drills and exercises, sight reading, and keyboard ear-training. The course will present musical analysis, performance strategies, suggested rehearsal techniques, independent coordination, and memorization. The course is specially designed to accompany the music major and, therefore, is very specific in harmonic understanding, theory, melodic development and usage, and piano practice.

MUSC 041B Music Majors Piano

1.0 Unit

*Prerequisite**:* MUSC 041A with a minimum grade of D

Hours: 16-18 lecture, 16-18 lab

Instruction, practice and application of the techniques of piano performance at the intermediate level designed for music majors. Emphasis will be placed on continuation of keyboard skills including simple and complex modulation, harmonic progressions using seventh chords and larger sonorities, all major and minor scales plus other forms, exercises and drills, sight reading, rehearsal techniques, accompanying skills, arrangement and advanced ear-training. The course specifically relates to advanced theoretical concepts realized at the keyboard with a continued attention to performance and the use of the piano as a teaching tool.

MUSC 042A Jazz and Pop Piano

1.0 Unit

*Prerequisite**:* A minimum grade of D in both MUSC 027 and MUSC 028, or equivalent as determined by instructor

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Instruction, practice, performance, and application of the techniques of Jazz and Pop piano performance. Emphasis will be placed on establishing the foundations for an improvised approach as well as a review of available literature. The course will focus on the concepts of jazz and popular styles involving the realization of lead sheets, chord voicing, applied scale theory, rhythmic structure, arrangement techniques, improvisation, and accuracy in the development of all styles considered.

MUSC 042B Jazz and Pop Piano

1.0 Unit

*Prerequisite**:* A minimum grade of D in both MUSC 027 and MUSC 028, or equivalent as determined by instructor

Course Advisory: MUSC 042A

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Instruction, practice, performance, and application of the techniques and principles of intermediate jazz and popular piano styles and skills. Emphasis will be directed to continuing the presentation made in 042A. Focus will be centered around arranging, improvisations, voicings, dialogue, hand formats, performance of literature, written projects and a further introduction to styles. The realization of lead sheets, sight reading, ear training, transcriptions of solos, fingerings, scale theory, exercises, and performance strategies will all be discussed.

MUSC 045 History of Rap and Hip-Hop

3.0 Units

General Education: CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

An in-depth exploration of the history of rap and hip-hop through its origins in African and Black-American oral traditions to its current standing as the preeminent popular musical genre in America. Students will be introduced to a myriad of artists, performers, and figures that helped shape this ever-expanding genre. Additionally, students will explore the racial, social, and cultural implications and controversies that have been prevalent throughout the genre's history. Finally, students will be introduced to an extensive list of musical examples that illustrate this history.

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MUSC - Music

MUSC 049 Music Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

An independent study course in a selected musical area for sophomore students. The student works by arrangement with the instructor on an outlined program of study. A contract between student and instructor which details the specific area of interest including goals and schedule for project completion is required. Students may take this course up to the maximum number of units over multiple semesters.

MUSC 051 Jazz and Popular Solo Voice

1.0 Unit

Transferable to CSU

Hours: 16-18 lecture, 16-18 lab

The study and performance of songs in the popular and jazz idiom. Areas covered will include musical phrasing, emotional expression, popular vocal styling, stage presence and the use of sound reinforcement systems. This course requires public performance and/or field trips.

MUSC 052 Sound Recording

2.0 Units

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Designed for musical performers and students interested in recording specifically. Development of recorded performances in the studio environment. Emphasis on acoustics, vocal and instrumental recording requirements, control board management, microphone techniques, organization and supervision of the recording session, mixing and mixdown. Particular attention is given to the hands-on experience in recording engineering and the overall recording process, including production, musical arrangement, mixdown, and studio demeanor.

MUSC 053 Advanced Sound Recording

2.0 Units

*Prerequisite**:* MUSC 052 with a minimum grade of D

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Advanced recording techniques with particular attention given to hands-on techniques.

MUSC 055

Introduction to Jazz Improvisation

Course Advisory: Knowledge of music fundamentals and basic instrumental skills.

Transferable to CSU

Hours: 32-36 lecture, 16-18 lab, 16-18 lab by arrangement.

Techniques and literature of improvisation including application of scales, modes, harmonic progressions, solo shape, form, and dynamic, rhythmic, and melodic development and interpretation of concepts and materials in the jazz style. Provides development and understanding of these techniques in the occupational areas of music through the concepts and performance of improvisation.

MUSC 056 Jazz Improvisational Ensemble

3.0 Units

Course Advisory: MUSC 055

Transferable to CSU

Hours: 32-36 lecture, 16-18 lab, 16-18 lab by arrangement

Presents the principles and techniques of improvisational materials, combo performance, individual solo skills, advanced playing concepts, group dynamics, and increased performance ability. The class will perform a wide variety of arrangements and the overall performance standards are directed to feature individual soloists. Provides the occupational musician with an opportunity to develop confidence and advanced skills from performance in this ensemble. Repeatable 3 times.

MUSC 060 Sound Recording Lab

1.0 to 4.0 Units

Corequisite: MUSC 052, MUSC 061, MUSC 062, MUSC 063, or MUSC 066A-G

Transferable to CSU

Hours: 48-216 lab

Introduces or further develops recording skills through practical application of techniques learned in related courses. The course is designed to allow recording students additional time outside of other classes to work on sound recording projects. Course may be taken up to the maximum number of units over multiple semesters.

MUSC 061

2.0 Units

MIDI and Computer Music Sequencing And Scoring

Course Advisory: MUSC 027 with a minimum grade of C

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

An introduction to MIDI (Musical Instrument Digital Interface) and the hardware and software components of music sequencing and scoring. The course content will include hands-on familiarization with the Macintosh computer, practical use of sequencing and scoring software, and an understanding of MIDI terminology.

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MUSC - Music

MUSC 066A

1.5 Units

Advanced Sound Recording - Signal Processing

*Prerequisite**:* MUSC 052

Transferable to CSU

Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on treatment of recorded audio files (signal processing), including applying reverberation, compression, equalization. This course is designed for students particularly interested in mixing audio.

MUSC 066B

1.5 Units

Advanced Sound Recording - Microphone Technique

*Prerequisite**:* MUSC 052

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on understanding microphone construction, operating principles and uses. This course is designed for students particularly interested in microphone design and placement technique.

MUSC 066C

1.5 Units

Advanced Sound Recording - Mixing and Mastering

*Prerequisite**:* MUSC 052

Transferable to CSU

Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on mixing and mastering recorded music. This course is designed for students particularly interested in balancing audio that has been recorded and finalizing it in preparation for duplication.

MUSC 066D

1.5 Units

Advanced Sound Recording - Analog Recording

*Prerequisite**:* MUSC 052

Transferable to CSU

Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on recording music with analog equipment. This course is designed for students particularly interested in learning to record without computers.

MUSC 066E

1.5 Units

Advanced Sound Recording - Home Studio Recording

*Prerequisite**:* MUSC 052

Transferable to CSU

Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on learning how to adapt an existing home to accommodate a small recording studio. This course is designed for students particularly interested recording in a home studio.

MUSC 066F

1.5 Units

Advanced Sound Recording - Studio Design and Equipment

*Prerequisite**:* MUSC 052

Transferable to CSU

Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on learning how to physically design and equip any recording studio. This course is designed for students particularly interested in designing, building and equipping a recording studio. Off-campus *Field trip may be required.*

MUSC 066G Sound Recording Project

1.5 Units

*Prerequisite**:* MUSC 052

Transferable to CSU

Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on practical application of recording skills. This course is designed for students particularly interested in applying recording skills in real-world situations. Required attendance at up to three recording sessions which take place outside of normal classroom hours.

MUSC 067A Introduction to Pro Tools

1.5 Units

Course Advisory: MUSC 052

Hours: 8-9 lecture, 48-54 lab

Covers basic Pro Tools principles; providing everything students need to complete a Pro Tools project - from initial set up to final mixdown. This course is an introduction to AVID's Pro Tools digital audio workstation software application. It includes how to record, edit, and mix music and Musical Instrument Digital Interface (MIDI) tracks within the Pro Tools application. This course is the first in a series of four courses leading to certification as a Pro Tools Operator.

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MUSC - Music

MUSC 067B Pro Tools Production

1.5 Units

*Prerequisite**:* MUSC 067A

Hours: 8-9 lecture, 48-54 lab

Provides a more detailed look at the Pro Tools system above and beyond the knowledge gained in Introduction to Pro Tools. It covers all the key concepts and skills needed to operate a Pro Tools system at the user level. This is an intermediate course in Digidesign's Pro Tools digital audio workstation hardware and software application. Concepts and skills needed to operate large sessions in a project studio environment are covered. It includes managing large track counts, multiple channels of simultaneous inputs and outputs, and the use of specialized plug-ins for specific music and post-production tasks. This course is the second in a series of four courses leading to certification as a Pro Tools Operator.

MUSC 071 Business of Music I

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Covers the processes of the music industry including record contracts as well as the responsibilities of record producers, agents, managers, and performing artists.

MUSC 072 Business of Music II

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

One course in a series of Music Industry core courses building upon MUSC 071 skills; focusing on the duties of attorneys, publishers, and radio stations regarding musical and financial matters. The course defines and analyzes publishing agreements, merchandising contracts, trademark and servicemark points, as well as radio and record-industry relations and sales and distribution.

MUSC 073 Artist Management

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

The definitions, duties, and agreements of artist management. Topics include the functions of a personal manager, guidelines to career planning, choosing managers and clients, record company negotiations, and selecting other team players. The course also analyzes the personal manager agreement and how to organize an artist's tour.

MUSC 074 Music Promotion

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

The process of music promotion. Topics include definitions of promotion, developing media/industry fan lists, and assembling a promotion packet. The course also discusses current internet strategies and new technologies developed for promotion. In addition, a campaign for album release and distribution is discussed and planned. Field trips may be required.

NURS - Nursing

NURS 052 Pharmacology for Nursing

3.0 Units

*Prerequisite**:* BIO 005

Course Advisory: Basic computer navigation skills and frequent internet access is required

Transferable to CSU

Hours: 48-54 lecture

Nursing or Pre-nursing Students. Designed to focus on nursing pharmacology by presenting a firm theoretical foundation. The course presents general principles, theories, and facts about medicinal agents. General characteristics of major classifications of medications are discussed. Specific information regarding action, dosage, side effects, adverse reactions and contraindications of selected medications within each classification is addressed. Practical information is presented on how the nursing process is integrated with pharmacology. Specific drug information is discussed in relation to assessment, client monitoring, interventions, client education, and evaluation of safe and effective drug therapy.

NURS 065 Role Transition in Practice

2.5 Units

Corequisite: NURS 064

*Prerequisite**:* NURS 063

Course Advisory: Basic computer navigation skills and frequent internet access is required.

Transferable to CSU

Hours: 120-135 lab

The final course in the nursing sequence. The focus of this course is on nursing care and first level management / leadership skills in caring for groups of hospitalized patients. Emphasis is placed on team management skills in acute care settings. The registered nurse preceptor directly supervises the student under the guidance of the nursing faculty liaison. Professional development skills, as well as current issues in nursing, are applied. This course focuses on managing groups of patients with respect to the individual's cultural / religious beliefs related to wellness, illness and health care practice. Clinical application of both previously learned theory and skills are applied in various healthcare agencies.

NURS 071A Foundations of Nursing I

6.0 Units

*Prerequisite**:* Admission to the Registered Nursing Program

Corequisite: NURS 071S

Transferable to CSU

Hours: 64-72 lecture, 96-108 lab

Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population across the lifespan. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms, and nursing equipment.

NURS 071B Foundations of Nursing II

6.0 Units

*Prerequisite**:* NURS 071A

Corequisite: NURS 071S

Transferable to CSU

Hours: 56-63 lecture, 120-135 lab

Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

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NURS - Nursing

NURS 071S Nursing Simulation and Skills Lab I 2.0 Units

*Prerequisite**:* Admission to Registered Nursing Program

Corequisite: NURS 071A and NURS 071B

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Presents the basic skills and simulations used in nursing practice for safe, humanistic, patient-centered care to a diverse patient population. The student will learn and practice these psychomotor skills in preparation for application in the clinical setting. As the skills are learned, consideration is given to the legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072A Medical/Surgical I and Geriatrics 5.0 Units

*Prerequisite**:* NURS 071A, NURS 071B and a grade of Pass in

NURS 071S

Corequisite: NURS 072S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B. This course applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the medical/surgical units and the elderly. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the medical/surgical units and the elderly. Application of knowledge and skills occurs in a variety of clinical settings providing care to the elderly and adults experiencing acute conditions requiring medical/surgical interventions. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072B Maternal-Newborn Nursing 5.0 Units

*Prerequisite**:* NURS 071B and NURS 071S

Corequisite: NURS 072S. Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the Maternal/Child Units. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the maternal/child. Application of knowledge and skills occurs in a variety of clinical settings providing care to the childbearing family experiencing conditions requiring interventions. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072S Nursing Simulation and Skills Lab II 2.0 Units

*Prerequisite**:* NURS 071B and a grade of Pass in NURS 071S

Corequisite: NURS 071A and NURS 071B

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Building on the content presented in Nursing Skills Lab I with a focus on developmentally and culturally appropriate therapeutic interventions in the care of the childbearing family, patients requiring medical/surgical interventions, and the elderly. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

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NURS - Nursing

NURS 073

Issues and Leadership in Health Care Today

*Prerequisite**:* NURS 072A, NURS 072B; and a grade of Pass in NURS 072S

Corequisite: NURS 073S

Transferable to CSU

Hours: 32-36 lecture

Facilitates the nursing student's entry into the profession of nursing. Topics include current issues, trends and leadership theories in the registered nurse's scope of practice in an ever-changing health care delivery system. Included is the delineation of the major functions of professional nursing organizations, accountability in nursing practice (quality improvement and risk management), identification of socio-political factors as well as leadership and management issues influencing professional nursing practice and their nursing implications. Legal and ethical concepts and responsibilities related to registered nursing practice are further considered. This is a non-clinical course. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents.

NURS 073A Medical/Surgical II

5.0 Units

*Prerequisite**:* NURS 072A and NURS 072B; and a grade of Pass in NURS 072S

Corequisite: NURS 073S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071 and 072 and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute (stable and unstable) and chronic conditions of patients requiring medical/surgical interventions. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

2.0 Units

NURS 073B

Psychiatric and Mental Health Nursing

*Prerequisite**:* NURS 072A and NURS 072B

Corequisite: NURS 073S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071 & 072 A & B and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on acute and chronic conditions of patients requiring mental health interventions. The focus of this course is to provide students opportunities to evaluate and address the biopsychosocial needs of the psychiatric patient. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilize online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

5.0 Units

NURS 073S

1.0 Unit

Nursing Simulation and Skills Lab III

*Prerequisite**:* NURS 072A and NURS 072B; and a grade of Pass in NURS 072S

Corequisite: NURS 073A and NURS 073B

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Builds on the content presented in NURS 071S and 072S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute (stable and unstable) and chronic medical and psychiatric conditions requiring medical/surgical and mental health interventions. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet Access required. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

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NURS - Nursing

NURS 074A Medical/Surgical III

6.0 Units

*Prerequisite**:* NURS 073A and NURS 073B; and a grade of Pass in NURS 073S

Corequisite: NURS 074S

Transferable to CSU

Hours: 48-54 lecture, 360-405 lab

Applies the concepts of nursing practice presented in NURS 071, 072 & 073 A& B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and patients with acute, complex conditions requiring medical/surgical interventions. The focus of NURS 074A is to provide students opportunities to integrate all program concepts to the care of adult patients with complex healthcare needs. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 074B Pediatric Nursing

5.0 Units

*Prerequisite**:* NURS 073A and NURS 073B; and a grade of Pass in NURS 073S

Corequisite: NURS 074S

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071, 072, and 073 A&B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness for a pediatric patient. This course also applies nursing concepts to the care of children. The focus is to provide students opportunities to integrate all program concepts to the care of pediatric patients. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 074S

Nursing Simulation and Skills Lab IV

*Prerequisite**:* NURS 073A and NURS 073B; and a grade of Pass in NURS 073S

Corequisite: NURS 074A and NURS 074B

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Builds on the content presented in NURS 071S, 072S & 073S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute and chronic complex conditions requiring medical/surgical interventions and the care of children. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

1.0 Unit

NURS 103 Certified Nursing Assistant

6.5 Units

*Prerequisite**:* Applicants must be at least 16 years old

Hours: 64-72 lecture, 128-144 lab

Basic computer navigation skills and frequent internet access is required. Prepares the student to function in the role of Certified Nursing Assistant in the acute care, long-term care, and home health settings. Students must apply to the CNA program through Solano Community College's Office of Admissions and Records, as well as attend a mandatory information session prior to the beginning of class.

NURS 104 Home Health Aide

2.0 Units

*Prerequisite**:* NURS 103 (may enroll concurrently)

Hours: 24-27 lecture, 24-27 lab.

An extension of the nursing assistant training. It is a didactic model that addresses the transition of skills from an institutional environment to the home setting. The course consists of nine modules, 20 hours classroom instruction including use of state curriculum, lectures, videos and discussion.

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NURS - Nursing

NURS 105 Acute Care Nursing Assistant

2.0 Units

*Prerequisite**:* NURS 103

Hours: 24-27 lecture, 30-33.75 lab

A focus on patients with acute illness or short-term illness or injury. This course prepares current CNAs to work in an emergency room or other short-term care facility, assisting registered nurses (RNs) and other health care personnel. Students refine skills learned in the general or long-term care CNA courses, such as measuring vital signs. Certified nursing assistants in this class become skilled at observing patients for discomfort, pain and learning how to apply basic knowledge and skills to delivery quality patient care. The CNA acute care curriculum also covers anatomy and physiology, infection control and safety procedures in an acute care setting. This course is typically taken by current CNAs. It is commonly referred to as a CNA level 2 course. The nurse assistant is an important member of the health care team. The nurse assistant, under the direct supervision of licensed nursing personnel, provides direct care to the resident; promotes comfort measures, and collects, records and reports data.

NURS 111 Medical Terminology

3.0 Units

Hours: 48-54 lecture

Basic computer navigation skills and frequent internet access is required. A study of the language of medicine. The student will develop a working knowledge of terms, word roots, and abbreviations related to structure and functioning of the systems of the body as they pertain to medical practice.

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NUTR - Nutrition

NUTR 010 Nutrition

General Education: SCC: Area A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lecture

Study of the scientific concepts of human nutrition. Essential nutrients, functions, chemical compositions of foods and their utilization in the body will be covered. The course will emphasize topics such as weight loss, sports nutrition, food safety, the diet-disease relationship, global nutrition, and analysis of special nutritional requirements during the lifecycle among others. Students utilize computer technology and nutritional assessment methods to evaluate personal dietary habits. (C-ID NUTR 110)

3.0 Units

NUTR 054 Child Health, Safety, and Nutrition 3.0 Units

Course Advisory: CDFS 038; CDFS 062

General Education: CSU: Area E

Transferable to CSU

Hours: 48-54 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. This is the same course as CDFS 054.

NUTR 012

0.5 to 2.0 Units

Evaluating Current Topics in Nutrition

Transferable to CSU

Hours: 8-36 lecture

Methods of evaluating current nutritional topics, determining reliable and unreliable sources of information and judging validity of experimental design. This course provides opportunities to study current, controversial topics in nutrition. Course topics include, but are not limited to, vitamin and mineral supplements, weight loss fads, phytochemicals and foods as medicine.

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OCED - Occupational Education

OCED 070 Occupational Soft Skills

1.5 Units

Transferable to CSU

Hours: 24-27 lecture

Covers the critical tools to help occupational students develop the employability or soft skills needed for a smooth transition to the work force based on the Secretary's Commission on Achieving Necessary Skills (SCANS). Topics include practical elements required to meet employer expectations, create cooperative co-worker interactions and development of positive personal characteristics. This is not a work experience course.

OCED 071

1.5 Units

Occupational Portfolio Development

Transferable to CSU

Hours: 24-27 lecture

Students will identify personal strengths and weaknesses in key skill areas and develop a plan for obtaining the skills they need. Professional and educational samples will be collected, categorized, and evaluated. Students will analyze how the career portfolio can be used as a tool for the job search as well as career advancement. An electronic career portfolio will be completed by the end of this course. Students will be learning a portfolio development software tool (Portfolium or similar tool) and will be required to have and be able to upload documentation of work and educational achievements.

OCED 090

1.0 to 16.0 Units

Occupational Work Experience

Corequisite: Student must be working (paid or unpaid) from 5 to 40 hours per week for a licensed business for a total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Duties must be directly related to student's declared major.

Transferable to CSU

Supervised employment extending classroom-based occupational learning at an on-the-job learning station related to the student's educational or occupational goal. Student must be working (paid or unpaid) in a job, volunteer, or internship position for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work must be directly related to the declared major. Students will attend a weekly coordination seminar and develop job-oriented objectives at their worksite. Students will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 8 units per semester. Students wishing to continue OCED 090 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 12 units of Occupational Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

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OCED - Occupational Education

OCED 091 General Work Experience 1.0 to 16.0 Units

Corequisite: Student must be working from 5-30 hours or more per week for a licensed business for a semester total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Job does not need to be related to major.

Transferable to CSU

Supervised employment that is intended to assist students in acquiring desirable work habits, attitudes, and career awareness. The student must be working (paid or unpaid) for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work does not need to be related to declared major. Student will attend a weekly coordination seminar and develop job-oriented objectives at their work-site. Student will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 6 units per semester. Students wishing to continue OCED 091 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 6 units of General Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

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OT - Office Technology

OT 054A Beginning Keyboarding A

1.5 Units

Transferable to CSU

Hours: 24-27 lecture

An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 20 words per minute.

Students may test out of the course if they can meet a minimum of 20 wpm with proper technique.

OT 054B Beginning Keyboarding B

1.5 Units

*Prerequisite**:* OT 054A or permission of faculty

Transferable to CSU

Hours: 24-27 lecture

An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 30 words per minute.

Materials studied include production of documents such as correspondence, memos, reports and tables in standard formats.

OT 055A

1.5 Units

Intermediate Keyboarding/Word Processing A

*Prerequisite**:* OT 054B or permission of faculty

Course Advisory: CIS 066 with a minimum grade of C

Transferable to CSU

Hours: 24-27 lecture

A keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 35 words per minute.

OT 055B

1.5 Units

Intermediate Keyboarding/Word Processing B

*Prerequisite**:* OT 055A or permission of faculty

Transferable to CSU

Hours: 24-27 lecture

An individualized keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 40 words per minute.

OT 056

2.0 Units

Business Grammar and Proofreading

Transferable to CSU

Hours: 32-36 lecture

Prepares students for professional work in an office with a heavy emphasis on business grammar and proofreading.

OT 060 Administrative Medical Assistant

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Introduction to the responsibilities of an Administrative Medical Office Assistant including: HIPPA (legal and ethical considerations), interpersonal-skills, scheduling appointments in person and by telephone, records and file management, written communications, and financial duties.

OT 061 Health Insurance

3.0 Units

Transferable to CSU

Hours: 48-54 lecture

Introduction to health insurance claims processing and reimbursement issues. Discusses the major health care insurance programs and the impact of federal regulations. The course introduces the use of diagnosis and procedures coding. Teaches the student how to accurately complete a claim.

OT 100

1.0 Unit

Skill Building on the Computer Keyboard

Course Advisory: Ability to touch type at 20 wpm

Hours: 16-18 lecture

Individualized skill building keyboarding course taught on the microcomputer. Speed and accuracy skills are enhanced on the alphabet, punctuation, and numbers. The unit of study includes identifying the specific needs of the individual and then assigning diagnostic drills, skill-development practice and pre-and post-testing. The skill building goal will be to increase typing speed or straight copy 3- to 5-minute timed writings between 5 to 10 words per minute above the starting rate with an accuracy level of not more than one error per minute.

OT 101

3.0 Units

Study of Human Diseases for Medical Assistants

Hours: 48-54 lecture

Study of the pathological process, imparting basic knowledge to paramedical personnel. The student will study the basic concepts, terminology, etiology and characteristics of pathological processes. Diseases are classified according to both causative agents and the body system to which they relate.

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OT - Office Technology

OT 151 Office Systems & Procedures

3.0 Units

Corequisite: One unit of OCED 090

*Prerequisite**:* Typing rate of 45 words per minute and microcomputer word processing skills

Hours: 48-54 lecture

An advanced level course designed to complete the training of Office Technology program students in office systems and procedures. Course should be taken during the student's final semester of the program or as a refresher for experienced business students. One unit of work experience will be required in the specialty area of the student's major.

OT 158 Medical Office Computer Applications

3.0 Units

Corequisite: NURS 111 with a minimum grade of C

Hours: 48-54 lecture

Navigates through the operations of a web-based Electronic Health Record/Total Practice Management program.

OT 162 Ten-Key

1.0 Unit

Hours: 16-18 lecture

Individualized course offering the fundamentals of operating the ten-key microcomputer number keypad. The touch system of operation and continuous speed and accuracy development are emphasized throughout the course.

OT 163 Introduction to Diagnostic Coding

3.0 Units

*Prerequisite**:* OT 101 and NURS 111

Course Advisory: A minimum grade of C in BIO 016 and BIO 016L

Hours: 48-54 lecture

Introduction to the basic principles of coding disease and procedures using the INTERNATIONAL CLASSIFICATION OF DISEASE, Clinical Modification (ICD-CM) and the ICD-CM coding handbook for the entry-level coders. Current ICD-CM books only will be utilized in this course. The accuracy of coding using the ICD-CM manual is the focus of this course. The impact of coding on reimbursement will be discussed.

OT 164 Intermediate ICD PCS Coding

3.0 Units

*Prerequisite**:* OT 101 and NURS 111.

Hours: 48-54 lecture

Explores the guidelines, conventions, and process for selecting procedural codes for inpatient claims. The course will focus on Procedural Coding System (PCS) coding in compliance with The Centers for Medicare and Medicaid Services (CMS) and the National Center for Health Statistics (NCHS) guidelines for coding and reporting using the International Classification of Diseases, Procedure Coding System (ICD-PCS). ICD-PCS is a procedure classification published by the United States for classifying procedures performed in hospital inpatient health care settings.

OT 166 Current Procedural Coding

3.0 Units

*Prerequisite**:* A minimum grade of D in both NURS 111 and OT 101

Course Advisory: A minimum grade of C in OT 063 and 064

Hours: 48-54 lecture

Covers the principles and mechanics of coding professional services rendered using the CURRENT PROCEDURAL TERMINOLOGY (CPT-IV) coding system.

PHIL - Philosophy

PHIL 001

3.0 Units

Introduction to Critical Thinking and Reasoning

Course Advisory: ENGL 001

General Education: SCC: Area D3; CSU: Area A3

Transferable to UC/CSU

Hours: 48-54 lecture

Study of logical thinking and reasoning in everyday life. Emphasis is on informal logic in contrast to formal symbolic logic. Special attention is given to 'computer literacy' and 'educational television.' Critical reading and writing is required. The course does not fulfill the IGETC critical thinking requirement.

PHIL 003 Introduction to Philosophy

3.0 Units

Course Advisory: ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

General introduction to the central methods and recurring problems in the Western philosophical tradition. Topics of inquiry are theories of knowledge, theories of existence, philosophy of religion, free will and determinism, and the mind-body problem. (C-ID PHIL 100)

PHIL 004 Introduction to Moral Philosophy

3.0 Units

Course Advisory: ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to moral philosophy and major ethical theories of the Western philosophical tradition. Critical reading and writing are required.

PHIL 005

3.0 Units

Critical Thinking: The Philosophic Grounds of Literacy

Prerequisite**: ENGL 001 with a minimum grade of D

General Education: SCC: Area C; CSU: Area A3

Transferable to UC/CSU

Hours: 48-54 lecture

Educates students in the fundamental principles of sound and cogent thinking and reasoning expressed primarily in argumentative essays. More specifically, the course is a practicum in critical literacy, i.e., the written practice and refinement of fundamental skills and dispositions required in effective argumentation, critical analysis and evaluation, conceptual inquiry, and discursive expression in general. The study of exemplary argumentative writings from a variety of philosophical, social, and political sources is integral. Objective exams and critical essays are required. This course fulfills the IGETC critical thinking requirement.

PHIL 006 Introduction to Political Philosophy

3.0 Units

Course Advisory: ENGL 001

General Education: IGETC: Area 3B, 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticisms, and methods in political inquiry relevant to the life and education of citizens. Critical reading and writing is required.

PHIL 400 Bioethics

3.0 Units

Prerequisite**: Admission into the Biomanufacturing degree program; Permission of faculty; ENGL 001 and MATH 011

Hours: 48-54 lecture

Builds upon a philosophical and critical thinking foundation to train students to be able to model sound ethical decision making in the life science and medical fields. The course requires application of moral theory to a variety of problems in the life science and medical fields such as: genetic engineering, stem cells, allocation of resources, medically assisted dying, genetic screening, genetic alteration, abortion and reproductive rights, and experiments on human or animal subjects. Enrollment in this upper division General Education course is limited to students enrolled in the Bachelors of Science in Biomanufacturing program.

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PHOT - Photography

PHOT 029 Introduction to Photography 3.0 Units

Hours: 32-36 lecture, 48-54 lab

An introduction to photography, including a brief history and discussion of image composition, camera usage, workflow and output options. Most of the course will concern digital cameras and processes, but there will be a short component on film photography. This course is a prerequisite to the Professional Photography program and most other photography courses. Students will have access to the department labs. DSLR (Digital Single Lens Reflex) camera is required. Department has some cameras for loan to students who cannot supply their own camera. (formerly PHOT 070)

PHOT 030 Beginning Film Photography 3.0 Units

Course Advisory: PHOT 035; ART 011

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Introduction to black and white film photography. Includes a brief history and discussion of image composition, with special emphasis on darkroom techniques, photographic principles and materials. Camera equipment is essential for this course and there are a substantial number of cameras for loan. SLR 35mm film camera and related materials are required. *Field trip may be required.*

PHOT 031 Intermediate Photography 3.0 Units

*Prerequisite**:* PHOT 029

General Education: CSU: Area C1

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Further develops a student's basic technical and visual skills with an emphasis on continued visual literacy. Students will work primarily with digital cameras, with the option to complete some projects with a film camera. A DSLR camera is required. The photo department has cameras available for loan for students who are unable to provide their own equipment.

PHOT 032 Digital Imaging 3.0 Units

*Prerequisite**:* PHOT 029

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

A comprehensive exploration of the management and development of digital photos, including the use of contemporary, industry standard software to catalog, optimize and transform images. Best practices, from capture to printing, will be covered and personal vision and creativity will be emphasized. SLR digital camera required. The department has some cameras for short term loan for students who have difficulty acquiring their own. (Formerly PHOT 071)

PHOT 035 The Art of Photography 3.0 Units

Course Advisory: ENGL 001; ART 011

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to photography and visual literacy through a survey of historical and contemporary movements and photographers. Students will complete photo assignments related to course content to deepen their understanding of the concepts. Camera equipment is not provided by the college. Students registering for this class may use any film or digital camera to complete assignments. Access to a film or digital camera is required to complete some assignments. Any camera is acceptable. Field trips may be required.

PHOT 040 Alternative Photography 3.0 Units

Course Advisory: PHOT 035; ART 038

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Experiment with alternative photographic and non-photographic materials to create visual images. Camera equipment is not provided by the college.

PHOT 045 DSLR Videography 3.0 Units

Course Advisory: PHOT 029 with a minimum grade of C; ENGL 001

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Augments the professional photography courses with the ability to create digital video content via a DSLR camera. DSLR camera is required.

PHOT 056 Photojournalism & Documentary Photography 3.0 Units

*Prerequisite**:* PHOT 030 or PHOT 070

Hours: 32-36 lecture, 48-54 lab

Transferable to CSU

Covers aspects of the camera as an editorial, journalistic and documentary tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet and other mass communications media. A camera is not provided by the College for this course. SLR film or SLR digital camera required. (C-ID JOUR 160)

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PHOT - Photography

PHOT 151 Professional Photography: Introduction <i>Prerequisite**:</i> PHOT 029 (formerly 070) <i>Hours:</i> 24-27 lecture, 72-81 lab Designed for students who are considering a career in photography. Students will be exposed to the technical and creative possibilities of genres of professional photography, including portraiture, fashion, still life and product, documentary, and fine art. SLR Digital camera required. Field trips may be required.	3.0 Units	PHOT 158 Photo Illustration <i>Prerequisite**:</i> PHOT 032 and either ART 045A or ART 046 <i>Hours:</i> 32-36 lecture, 48-54 lab Builds on digital media skills in graphic design and photography. Students use original photos and advanced compositing layering and design to create a portfolio of illustrations suitable for editorial, commercial, or fine art applications. Student will need a Digital SLR camera and a portable external hard drive (minimum 500GB). The photo department has some equipment to loan students who are unable to provide their own.	3.0 Units
PHOT 152 Professional Photography: Portraiture <i>Prerequisite**:</i> PHOT 029 (formerly 070) <i>Hours:</i> 24-27 lecture, 72-81 lab A focus on varied applications of photographic portraiture in the applied and fine art environments, with attention to lighting, concept and aesthetics. SLR Digital camera required. <i>Field trip may be required.</i>	3.0 Units	PHOT 161 Workshop: Camera Intensive <i>Hours:</i> 8-9 lecture, 24-27 lab Introduction to Digital Single Lens Reflex (DSLR) camera capture and basic software skills. Students will learn how to operate their camera effectively in manual mode as well as use a wide range of camera features. Not eligible to students that have successfully completed PHOT 029. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.	1.0 Unit
PHOT 153 Professional Photography: Product and Advertising <i>Prerequisite**:</i> PHOT 029 (formerly 070) <i>Hours:</i> 24-27 lecture, 72-81 lab Explore varied film and lighting techniques to execute photographs in the context of advertising. Assignments will vary from studio work to location settings using a wide variety of subjects (food, wine, autos, etc). SLR Digital camera required. <i>Field trip may be required.</i>	3.0 Units	PHOT 162 Workshop: Portraiture and Studio Lighting <i>Hours:</i> 8-9 lecture, 24-27 lab A studio portraiture course, including an introduction to using studio lighting. Not eligible to students that have successfully completed PHOT 152. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.	1.0 Unit
PHOT 154 Professional Photography: Interior and Exterior <i>Prerequisite**:</i> PHOT 029 (formerly 070) <i>Hours:</i> 24-27 lecture, 72-81 lab Provides the student with skills to photograph architecture in the rural and urban landscape. SLR Digital camera required. <i>Field trip may be required.</i>	3.0 Units	PHOT 163 Landscape and Nature Photography <i>Course Advisory:</i> A minimum grade of C in either PHOT 029 (formerly 070) or PHOT 161 <i>Hours:</i> 8-9 lecture, 24-27 lab An intensive, hands-on immersion in strategies and techniques for making strong, evocative landscape and nature photographs. Classes will include presentations, demonstrations, exercises and field trips to local areas. Recommended for intermediate to advanced levels. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.	1.0 Unit
PHOT 156 Portfolio Development <i>Prerequisite**:</i> PHOT 151 and PHOT 152, PHOT 153 or PHOT 154 <i>Hours:</i> 32-36 lecture, 48-54 lab An advanced course designed to serve the student in the preparation of a professional fine art or commercial portfolio. Emphasis is placed on individual direction and personal goals. The student can expect individual consultation by the instructor. A digital or film camera is required. Approximately \$200 in photographic materials.	3.0 Units	PHOT 164 Digital Printing for Photographers <i>Course Advisory:</i> PHOT 029 <i>Hours:</i> 8-9 lecture, 22-36 lab Students will learn the basics of making digital prints from their photo files, including color management, preparing files, and printing on fine art and specialty paper by creating custom color (ICC) profiles.	1.0 Unit

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PHSC - Physical Science

PHSC 012

4.0 Units

Introduction to Principles of Physical Science

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab

Introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, chemistry, astronomy, and the geo-sciences. Meets the physical science requirement for general education for non-science majors. Field trips may be required.

PHSC 013 Weather and Climate

3.0 Units

Corequisite: PHSC 014

General Education: IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to modern meteorology. Topics include air circulation, pressure and wind, temperature, moisture, fronts, storm systems, cloud types, and air stability. The course will also include an introduction to interpreting weather maps, synoptic weather forecasting, and climate change. (PHSC 013 = C-ID GEOG 130)

(PHSC 013 + PHSC 014 = C-ID GEOG 130)

PHSC 014 Atmospheric Science Laboratory 1.0 Unit

Corequisite: PHSC 013, PHSC 015 or PHSC 016

General Education: IGETC: Area 5C; CSU: Area B3

Transferable to UC/CSU

Hours: 48-54 lab

Emphasizes the practical concepts of physical science and weather using demonstration and experimentation. Topics include the scientific method, Newton's laws of motion, heat and energy transfer, the gas law, and fluid dynamics. Other experiments will demonstrate weather observation techniques, collection and analysis of atmospheric data, weather map study, cloud identification, interpretation of satellite imagery, and basic forecasting skills. This course includes a field trip to a local forecasting facility.

PHSC 015 Global Climate Change

3.0 Units

Course Advisory: Concurrent enrollment in PHSC 014

General Education: IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

Explores the principles underlying the interdisciplinary and rapidly growing field of climate science and climate change. Topics include the Earth's climate system and climate history, the physics and chemistry of greenhouse gases, and evidence for climate change. The course investigates human influences on the climate system, including greenhouse gas emissions, and potential impacts of climate change. It also considers various possible responses to climate change, including alternative energy production, policy responses, and adaptation. Field trips may be required.

PHSC 016 Natural Disasters

3.0 Units

Course Advisory: Concurrent enrollment in PHSC 014

General Education: IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the hazards created by the earth's natural and physical processes covering a broad scientific understanding of earthquakes, volcanoes, hurricanes, tsunamis, tornadoes, flooding, wildfires, and other disasters. Other topics will include threats from the earth's changing climate and potential impacts from asteroids and comets. Atmospheric and geological processes that create these catastrophes will also be discussed. The concept of science and the scientific method will be introduced and applied to the course material. Field trips may be required.

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**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

PHYS - Physics

PHYS 002 General Physics (Non-Calculus) 5.0 Units

*Prerequisite**:* MATH 004 or MATH 051

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

First in a two-semester sequence with PHYS 004 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course covers the study of motion, energy, momentum, gravitation, solids, fluids, thermodynamics and the gaseous state, vibration, wave motion, and sound. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Field trip may be required. (C-ID PHYS 105)*

PHYS 004 General Physics (Non-Calculus) 5.0 Units

*Prerequisite**:* PHYS 002

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Second in a two-semester sequence with PHYS 002 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course is a study of electricity, magnetism, light and optics, and modern physics. Students learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Field trip may be required. (C-ID PHYS 110)*

PHYS 006 Physics for Science and Engineering 5.0 Units

*Prerequisite**:* MATH 021 (may enroll concurrently)

Course Advisory: PHYS 002 with a minimum grade of C or high school physics

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

First in a three-semester sequence with PHYS 007 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A study of mechanics, gravitation, vibration and fluids. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. *(C-ID PHYS 205)*

PHYS 007 5.0 Units

Physics for Science and Engineering

*Prerequisite**:* PHYS 006 and MATH 021

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Second in a three-semester sequence with PHYS 006 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of topics including electricity, magnetism, wave motion, and sound. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. *(C-ID PHYS 210)*

PHYS 008 5.0 Units

Physics for Science and Engineering

*Prerequisite**:* PHYS 006 and MATH 021.

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Third in a three-semester sequence with PHYS 006 and PHYS 007 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Field trip may be required. (C-ID PHYS 215)*

PHYS 010 Descriptive Physics 3.0 Units

Course Advisory: MATH 330 or MATH 330B

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory physics course for both the non-science and the beginning science student. Includes topics such as nuclear physics, relativity, mechanics, properties of matter, quantum physics, heat, light, electricity and magnetism, sound and waves. Written assignments, tests, and a comprehensive final exam will be used to evaluate student success. *Field trip may be required.*

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PLSC - Political Science

PLSC 001

3.0 Units

Introduction to American Government and Politics

General Education: SCC: Area B1; IGETC: Area 4, CSU 1;

CSU: Area D, CSU 1

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the theory and practice of American politics, this course includes an analysis of the operation of national, state, and local governments, as well as the U.S. and California Constitutions. (C-ID POLS 110)

PLSC 002

3.0 Units

Introduction to Comparative Government

Course Advisory: PLSC 001; ENGL 001 with a minimum grade of C

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

The political institutions of selected industrialized and developing nations are examined comparatively. Emphasis is on the formation of political institutions; government; political culture; ethnic groups; citizen and interest participation; political parties; and modern bureaucratic public policy roles. This course includes a 10-12 page research paper. (C-ID POLS 130)

PLSC 003

3.0 Units

Introduction to International Politics

Course Advisory: PLSC 001 with a minimum grade of C; ENGL 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory study of the international system from the U.S. perspective focusing on such concepts as the nation state and nationalism, power, war and military strategy, international law and approaches to international peace and stability. (C-ID POLS 140)

PLSC 004 Introduction to Political Science 3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C

General Education: SCC: Area B1; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to political science designed to familiarize students with basic political concepts, political ideologies, political systems, and subfields within political science. (C-ID POLS 150)

PLSC 005

3.0 Units

Constitutional Rights in a Multicultural Society

Course Advisory: PLSC 001; ENGL 001

General Education: SCC: Area B1, E; IGETC: Area 4, CSU 1, SCC Cross-Cultural; CSU: Area D, CSU 1, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to Constitutional rights, this course will highlight the impact of European, Native American, African American, Asian American, and Latino American cultures on United States and California law and government. The effect of the legislative, executive, and judicial branches will be explored. Cross-cultural issues will also be an integral part of this inquiry, including the freedom of expression, religious culture, and the politics of ethnic groups.

PLSC 006 Introduction to Political Philosophy 3.0 Units

Course Advisory: ENGL 001 or ENGL 062

General Education: SCC: Area B2; IGETC: Area 3B, 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticism, and methods in political inquiry relevant to the life and education of citizens. Critical reading and writing are required. (C-ID POLS 120)

PLSC 007 International Relations 3.0 Units

Course Advisory: PLSC 001 with a minimum grade of C

General Education: SCC: Area B1; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. Designed to give students a foundation for the study of international relations, it provides a backdrop to understanding global interdependence, its causes and consequences. Included are political, economic, historical, philosophical, cultural, geographical, and environmental dimensions of interdependence. (Formerly IR 001) (C-ID POLS 140)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

PLSC - Political Science

PLSC 016 The American Legal System

3.0 Units

Course Advisory: PLSC 001; ENGL 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the American legal system and influence of other legal systems, emphasizing the evolution of legal concepts in response to the changing environment. The American judicial system will be analyzed to include civil and criminal procedure, torts & contracts, as well as current legal issues including the death penalty, insanity defense, drugs, environmental law, right to die, forensic evidence and role of juries.

PLSC 019

3.0 Units

Human Rights and Sexual Orientation

Course Advisory: ENGL 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to gay/lesbian studies with an analysis of a variety of concepts and theories in relation to political science, gay rights and the law, the politics of AIDS, health issues, the political/religious right, marriage and family, and current gay agenda issues.

PLSC 049 Political Science Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 6 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study project which results in a critical examination of government, politics, or law. Students may take this course up to the maximum number of units over multiple semesters.

PLSC 050 Student Leadership

1.0 Unit

Transferable to CSU

Hours: 32-36 lab, 16-18 lab by arrangement

A class devoted to the practical application of the governmental process through participation in the student government program. Open to all students.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

PSYC - Psychology

PSYC 001 Introduction to Psychology

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to psychology as the scientific study of human behavior and mental processes. Major topics include history of field, scientific method, sensation and perception, brain and nervous system, states of consciousness, development, learning, memory, cognition, motivation, emotion, personality, tests and measurements, health psychology, behavior disorders and treatment, and social psychology. (C-ID PSY 110)

PSYC 002 Biological Psychology

3.0 Units

*Prerequisite**:* PSYC 001
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

A focus on the relationship of genetic and physiological factors to behavior. Topics include how the brain and nervous system influence behavior including perception, sexual behaviors, sleep, drug use, disorders, memory and learning. Current theories and research in biological psychology are reviewed. (C-ID PSY 150)

PSYC 004

3.0 Units

Research Methods in Behavioral Science

*Prerequisite**:* PSYC 001 and MATH 011
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to basic research methods in the behavioral sciences. Assumptions and goals of science are considered as well as several specific research techniques or designs. The ethics of research with human and animal subjects will be covered. (C-ID PSY 200)

PSYC 005 Abnormal Psychology

3.0 Units

*Prerequisite**:* PSYC 001 with a minimum grade of D
Course Advisory: ENGL 001, LR 010, ENGL 062
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An overview of psychological disorders surveying selected disorders in the current version of the Diagnostic and Statistical Manual (DSM), including mood disorders (such as depression, bi-polar disorder), anxiety disorders, psychotic disorders (such as schizophrenia), personality disorders, eating disorders and others. The course discusses historical and scientific approaches to explain and to treat these disorders from bio-psycho-social perspectives. (C-ID PSY 120)

PSYC 006 Developmental Psychology

3.0 Units

Course Advisory: PSYC 001
General Education: IGETC: Area 4; CSU: Area D, E
Transferable to UC/CSU
Hours: 48-54 lecture

Study of development from the prenatal period through the lifespan. Emphasis will be on current theories and research in developmental psychology. Physical, cognitive, social-emotional, intellectual and linguistic aspects of development will be examined. Included are influences of family, society and culture. This course does not fulfill the lifespan requirement for the nursing major. (C-ID PSY 120)

PSYC 007 Cross-Cultural Psychology

3.0 Units

Course Advisory: PSYC 001 with a minimum grade of C
General Education: SCC: Area E; IGETC: Area 4;
CSU: Area D, SCC Cross-Cultural
Transferable to UC/CSU
Hours: 48-54 lecture

An overview of cross-cultural psychology with critical and comparative study of psychological topics such as ethnicity, gender, cognition, emotion, personality, health, and social interaction. Various ethnic populations within the United States, cultural values and individual beliefs will be examined in this class. Contemporary and historical research on the influence of culture on human psychology is reviewed. A service learning activity and/or field trip may be part of this class.

PSYC 012 Introduction to Gender

3.0 Units

Course Advisory: PSYC 001
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An examination of the psychological, sociological, biological, cognitive, and cultural theories and research of sex and gender. Analysis of the effects of gender expectations and practices on individual development, health, relationships, and the workplace. Includes agents of socialization, impact of economic and political change, social construction of sexuality and gender identities, and intersectional aspects of gender which includes race, ethnicity, and class. Open to all students. (C-ID SOCI 140) (C-ID SJS 120)

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PSYC - Psychology

PSYC 020 Personal and Social Behavior 3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D, E
Transferable to UC/CSU
Hours: 48-54 lecture

Study of human behavior in the process of adjusting to life's changes. The emphasis is on normal and abnormal adaptations to the various challenges which life presents. Issues related to the major schools of thought and their views towards a healthy personality effective and ineffective behavior, behavioral disorders, psychotherapy, relationships, careers and personal growth will be examined.

PSYC 030 Introduction to Social Psychology 3.0 Units

Course Advisory: PSYC 001
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Explore how thoughts, feelings, and behavior of individuals are influenced by the actual, imagined, or implied presence of others. Focus will be on the social factors that influence human behavior; other people, institutions, situations and the social and physical structures people have created. A review of the various perspectives unique to social psychologists and a variety of classical research in social psychology will be studied. Same course as SOC 030. (C-ID PSY 170)

PSYC 034 Human Sexual Behavior 3.0 Units

General Education: IGETC: Area 4; CSU: Area D, E
Transferable to UC/CSU
Hours: 48-54 lecture

Objective exploration of the various issues pertaining to human sexual behavior from the perspective of the behavioral and social sciences. Some of the major topics to be discussed include history of sexuality, attitudes, behaviors, life styles, psychosexual development, role and identity, sexual dysfunctions, therapy and treatment.

PSYC 040 Drugs, Society and Behavior 3.0 Units

General Education: CSU: Area E
Transferable to UC/CSU
Hours: 48-54 lecture

The historical, sociological, psychological, physiological, pharmacological and legal aspects of drugs. Emphasis will be placed on the effects of stimulants, sedative-hypnotics, narcotics, hallucinogens, alcohol, marijuana and inhalants. Various education, prevention and treatment approaches will be discussed.

PSYC 049 Psychology Honors 1.0 to 3.0 Units

*Prerequisite**:* Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU
Hours: 48-162 lab by arrangement

Independent study designed for honor students who intend to major in psychology. Students may take this course up to the maximum number of units over multiple semesters.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

RE - Real Estate

RE 164 Real Estate Principles**3.0 Units***Hours: 48-54 lecture*

Study of the characteristics of real estate from physical, legal, and economic standpoints. Course material is designed to assist those preparing for the real estate salespersons and brokers license examination.

RE 171 Real Estate Economics**3.0 Units***Hours: 48-54 lecture*

Study of the economic aspects of real estate and their effects on real estate markets, urban growth and finance. Particular emphasis is made on governmental and agency controls on development of regional and local areas, past and future.

RE 172 Real Estate Practice**3.0 Units***Hours: 48-54 lecture*

A comprehensive study of the techniques used to successfully operate a real estate business. Includes office management administration, in-service training of associate licensees, legal and statutory compliance, and agency and other oversights. Designed for students needing a course for education as required by the Department of Real Estate.

RE 173 Legal Aspect of Real Estate**3.0 Units***Hours: 48-54 lecture*

Comprehensive study and analysis of California law as applied to the legal problems involved in real estate transactions. Includes contract, agency, and finance devices.

RE 174 Real Estate Finance**3.0 Units***Hours: 48-54 lecture*

Comprehensive study and analysis of money markets, interest rates, and financing as applied to real estate transactions.

RE 175 Principles of Appraisal**3.0 Units***Hours: 48-54 lecture*

Entry level appraisal course introducing students to basic appraisal principles and the Uniform Standards of Professional Appraisal Practice. Content includes: Influences on value, legal considerations, economic principles, real estate markets and analysis, valuation process, property description, highest and best use analysis, appraisal statistics, sales comparison and cost approaches to value.

RE 176**3.0 Units****Advanced Residential Appraisal Practice***Hours: 48-54 lecture*

Advanced appraisal course covering the principles, procedures and techniques needed to appraise all types of residential properties up to four units. The content includes: Review of basic appraisal principles, use of all Federal National Mortgage Association (FNMA) forms, basic income and expense estimating, gross rent multipliers, appraisal ethics and the Uniform Standards of Professional Appraisal Practice (USPAP). Students will appraise a custom home, a condominium and a small income residential property.

RE 177**3.0 Units****Income Property Appraisal and Analysis***Prerequisite**:* RE 175 with a minimum grade of D*Hours: 48-54 lecture*

Advanced appraisal course covering the principles, procedures and techniques needed to appraise commercial property, including large apartment buildings. The course will include review of basic appraisal principles, income and expense estimating, operating expense ratios, direct capitalization, cash flow estimates, measures of cash flow and discounted cash flow analysis. The use of financial calculator will be required.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

SJS - Social Justice/Ethnic Studies

Social Justice Studies

SJS 001 Introduction to Social Justice Studies 3.0 Units

General Education: IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Interdisciplinary introduction to the study of race/ethnicity, gender, and sexuality in the United States. Examines social justice movements and perspectives in relation to ethnicity/race, gender and sexuality, and related intersectional systems of difference in the United States. Analysis of antiracist and feminist perspectives serves as a basis for understanding socio-economic, cultural and political inequities in the United States and globally, and for assessing strategies for creating greater equity and inclusion for all. (C-ID SJS 110)

SJS 002 Introduction to Race and Ethnicity 3.0 Units

General Education: SCC: Area E; IGETC: Area 4, SCC Cross-Cultural;

CSU: Area D, SCC Cross-Cultural

Transferable to UC/CSU

Hours: 48-54 lecture

Analysis of race, ethnicity, and racism. Examines the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as historical and contemporary patterns of interaction between various racial and ethnic groups. (C-ID SOCI 150)

SJS 030

3.0 Units

Peace, Non Violence and Conflict Resolution

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the study of peace, nonviolence and peaceful conflict resolution. The course is designed for students interested in the fundamental issues of peace, justice, and conflict resolution in our society. It offers students an opportunity to reflect on the peace writings of both past and contemporary authors and is an examination of justice, peace, and peacemakers in the U.S. and worldwide. (Formerly SOCS 030)

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

SOC - Sociology

SOC 001 Introduction to Sociology

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to sociology with analysis of a variety of concepts and theories in relation to culture, socialization, social inequality, race relations, sex roles, deviance, and the distribution of political and economic power. (C-ID SOCI 110)

SOC 002 Social Issues and Problems

3.0 Units

Course Advisory: SOC 001
General Education: SCC: Area B1; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

Analysis of selected social problems, including race relations, urban decay, suburban sprawl, crime, population problems, environment, and changes in the familial, economic and political institutions. (C-ID SOCI 115)

SOC 023 Sociology of African Americans

3.0 Units

Course Advisory: SOC 001 or SOC 022
General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems.

SOC 040 Sociology of the Family

3.0 Units

Course Advisory: SOC 001
General Education: IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

A comparative cultural view of the family as an institution, the history of the family and its present role in our society with a special emphasis on kinship relations, sex roles, ethnic and economic variations of the family, and alternative family styles. (C-ID SOCI 130)

SOC 045 Sociology of Religion

3.0 Units

General Education: IGETC: Area 4; CSU: Area D
Transferable to UC/CSU
Hours: 48-54 lecture

An introduction to the sociological study of religion in the United States, with an emphasis on the origins of religion, theoretical perspectives on religion, religious conflict, and the future of religion. This course also covers the absence of religion and alternative forms of religion.

SOC 049 Sociology Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability
Transferable to CSU
Hours: 48-162 lab by arrangement.

Independent study designed for honor students who intend to major in sociology. Students may take this course up to the maximum number of units over multiple semesters.

SOC 075 Introduction to Sociology of Sport

3.0 Units

Course Advisory: SOC 001
General Education: CSU: Area D
Transferable to CSU
Hours: 48-54 lecture

Examines the nature, position, functions, and growing importance of sports in contemporary industrial society. Particular emphasis is given to the relationships between structure, variety, and extent of sports activity and other sectors of society, such as schools, churches, and the work place.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

SPAN - Spanish

SPAN 001 First Semester Spanish

5.0 Units

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2
Transferable to UC/CSU
Hours: 80-90 lecture

Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Students will interact with authentic language in a cultural context. NOTE: Not open for credit to students who have had two or more years of high school Spanish with a minimum grade of B within the last three years or to students who have completed SPAN 001S; or SPAN 031 and/or 032; or SPAN 061M and/or 062M. (C-ID SPAN 100).

SPAN 002 Second Semester Spanish

5.0 Units

*Prerequisite**:* SPAN 001, SPAN 001S, SPAN 032, SPAN 062M, or two years of high school Spanish with a minimum grade of C
General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2
Transferable to UC/CSU
Hours: 80-90 lecture

A Continuation of SPAN 001, introduction the fundamentals of Spanish (listening, speaking, reading, writing and culture) with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary through authentic language in a cultural context. NOTE: Not open to students who have completed SPAN 002S; SPAN 033 and/or 034; or SPAN 063M and/or 064M. (C-ID SPAN 110).

SPAN 003 Third Semester Spanish

5.0 Units

*Prerequisite**:* SPAN 002, SPAN 002S, SPAN 034, SPAN 064M, or three years of high school Spanish with a minimum grade of C
General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2
Transferable to UC/CSU
Hours: 80-90 lecture

Teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students will interact with authentic language in context and express personal meaning, using different strategies and techniques that go beyond casual conversation, in order to express opinions, make suggestions on familiar topics, discuss some abstract issues, and make plans. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. Students will demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. This course will be taught in Spanish. (C-ID SPAN 200).

SPAN 004 Fourth Semester Spanish

5.0 Units

*Prerequisite**:* SPAN 003 or four years of high school Spanish
General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2
Transferable to UC/CSU
Hours: 80-90 lecture

A continuation of SPAN 003, expanding upon culture and facilitate language acquisition through listening, speaking, reading and writing. Students will interact with authentic language in context and express personal meaning, using different strategies and techniques that go beyond casual conversation, in order to express opinions, make suggestions on familiar topics, discuss some abstract issues, and make plans. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. Students will demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. This course will be taught in Spanish. (C-ID SPAN 210).

SPAN 011 Conversational Spanish

3.0 Units

*Prerequisite**:* SPAN 002, SPAN 02S, SPAN 034, or SPAN 064M
General Education: IGETC: Area 3B, 6; CSU: Area C2
Transferable to UC/CSU
Hours: 48-54 lecture

Promotes competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. This course emphasizes the practical application of the language, not grammar acquisition or review.

SPAN 031 First Semester Spanish, Part I

3.0 Units

General Education: SCC: Area C; CSU: Area C2
Transferable to UC/CSU
Hours: 48-54 lecture

Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester SPAN 001 requirement of some universities, transfer students must complete the sequence of SPAN 031 and 032. NOTE: Not open for credit to students who have received credit for SPAN 001; SPAN 001S; SPAN 061M; or who have had two or more years of high school Spanish with a minimum grade of B within the last three years.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

SPAN - Spanish

SPAN 032 First Semester Spanish, Part II 3.0 Units

*Prerequisite**:* SPAN 031 or SPAN 061M

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A continuation of Spanish 031, presenting the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester SPAN 001 requirement of some universities, transfer students must complete the sequence of SPAN 031 and SPAN 032. NOTE: Not open for credit to students who have received credit for SPAN 001; SPAN 001S; SPAN 062M; or who have had two or more years of high school Spanish with a minimum grade of C within the last three years.

SPAN 033 Second Semester Spanish, Part I 3.0 Units

*Prerequisite**:* SPAN 001, SPAN 001S, SPAN 032, or SPAN 062M

General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A continuation of SPAN 001 (or SPAN 032), presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have received credit for SPAN 002, SPAN 002S, or SPAN 063M.

SPAN 034 Second Semester Spanish, Part II 3.0 Units

*Prerequisite**:* SPAN 033 or SPAN 063M

General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU

Hours: 48-54 lecture

A continuation of Spanish 033, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have received credit for SPAN 002 or SPAN 002S.

SPAN 049 Spanish Honors 1.0 to 3.0 Units

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study and research, by arrangement with the instructor, in specified fields of study in Spanish or creative writing in Spanish. Students may take this course up to the maximum number of units over multiple semesters.

SPMD - Sports Medicine

SPMD 054

3.0 Units

Care and Prevention of Athletic Injuries

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the field of Athletic Training/ Sports Medicine as a profession and as an academic discipline. Designed to train students in the recognition, rehabilitation, and prevention of athletic injuries. Emphasis is on learning and applying a variety of taping techniques and athletic training therapies. Recommended introductory course for the Sports Medicine program.

SPMD 055A

3.0 Units

Sports Medicine-Athletic Training Practicum Fall Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of lower extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Fall sport experience includes soccer, volleyball, rugby, and men's and women's basketball, those sports that pose most lower extremity injuries.

SPMD 055B

3.0 Units

Sports Medicine-Athletic Training Practicum Spring Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience include softball, baseball, men's and women's swimming and diving. Injuries specific to these sports includes most upper extremity injuries.

SPMD 056A

3.0 Units

Sports Medicine-Athletic Training Practicum Fall Sports 2

*Prerequisite**:* SPMD 055A

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity of immediate recognition of lower extremity injuries. Emphasis on advanced techniques in rehabilitation and recognition of moderate to severe injuries.

SPMD 056B

3.0 Units

Sports Medicine-Athletic Training Practicum Spring Sports 2

*Prerequisite**:* SPMD 056A

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience include softball, baseball, men's and women's swimming and diving. Injuries specific to these sports includes most upper extremity injuries.

SPMD 071 Back Care and Injury Management 1.0 Unit

General Education: CSU: Area E

Transferable to CSU

Hours: 48-54 lecture

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of moderate level upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience includes, softball, baseball, mens and womens swimming and diving. Injuries specific to these sports include most upper extremity injuries.

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THEA - Theatre Arts

THEA 001 Acting 1

General Education: CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text. (C-ID THTR 151)

3.0 Units

THEA 002 Acting 2

Prerequisite**: THEA 001

General Education: CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Continued study of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, and scenes. (C-ID THTR 152)

3.0 Units

THEA 003 Stagecraft

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Introduction to the backstage aspects of live theatre and the creation of technical elements. Includes basic concepts of scene design, scene painting techniques, set construction, set movement, prop construction, backstage organization and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and hands on practical experience. Students will participate in the planning, design, set construction, and painting of a main college theatrical event as determined by the instructor. Repeatable 1 time. (C-ID THTR 171)

3.0 Units

THEA 005 Applied Drama

Prerequisite**: Audition; THEA 001 and THEA 003

Transferable to UC/CSU

Hours: 16-18 lecture, 48-54 lab

The study and rehearsal of dramatic, comedic and musical works for the stage which includes: classical plays, contemporary dramas and comedies, revues, musicals, and one-acts. Students participate as actors, ensemble members, directors, production designers and/or technicians.

2.0 Units

THEA 006 Introduction to Theatre

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions. This is an audience oriented, non-performance course. Field trips will be required. (C-ID THTR 111)

3.0 Units

THEA 008 Stage Make-Up

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Students will receive instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use. (C-ID THTR 175)

3.0 Units

THEA 009 Script Analysis

General Education: IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

Fully explore an in-depth methodology of reading, analyzing and understanding play scripts in a variety of genres and styles intended for production. Investigate techniques used to determine how to read a play for its structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery, and understanding what scripts "mean" to the professional theatre artist and audience as distinct from other forms of literature. (C-ID THTR 114)

3.0 Units

THEA 010 Theatre History 1

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU

Hours: 48-54 lecture

The study of the history of theatre from the Origins of Theatre through the 17th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. *Field trip may be required.*

3.0 Units

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

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THEA - Theatre Arts

THEA 011 Theatre History 2

3.0 Units

*General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1
Transferable to UC/CSU*

Hours: 48-54 lecture

The study of the history of theatre from the 17th Century to contemporary times. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. Contemporary multicultural theatre will be emphasized.

THEA 013

3.0 Units

Diversity in American Theatre: A Contemporary Focus

*General Education: SCC: Area C, E; IGETC: Area 3A, SCC Cross-Cultural;
CSU: Area C1, SCC Cross-Cultural*

Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to American cultural diversity in theatrical performance, this course will study African-American, Asian-American and Latino(a) theatres, and theatrical representations including TV and film, supplemented by consideration of the social and political conditions impacting these works. Journals, exams, and scene performance or readings and oral reports or critical papers are required.

THEA 020 Introduction to Stage Lighting

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

The study and execution of stage lighting with an emphasis on equipment, control, color and their relationship to design. This course discusses the methods and materials utilized in designing lighting for the stage. Focus on the practical skills needed to complete a light design project. (C-ID THTR 173)

THEA 021 Introduction to Theatre Design

3.0 Units

*Prerequisite**:* THEA 003

Course Advisory: ENGL 001 with a minimum grade of C

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Students will be offered a survey of scenery, lighting, sound, costumes, make up, properties, theatrical equipment and construction techniques through demonstration and laboratory experience. Information will be applicable to all formal theatrical applications. (C-ID THTR 172)

THEA 024

4.0 Units

Rehearsal and Performance in Production

Hours: 30-33.75 lecture, 160-180 lab by arrangement

Instruction and supervised participation in theatre rehearsal and performance. Instruction will be focused upon the unique elements and demands of a live stage production. The production(s) can be: A Comedy, Drama, Classical and a Musical. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. Repeatable 3 times.

THEA 024A

4.0 Units

Rehearsal and Performance in Production - Comedy

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in theatre rehearsal and performance. Instruction will be focused upon the unique elements and demands of comedy. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024B

4.0 Units

Rehearsal and Performance in Production - Drama

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in theatre rehearsal and performance. More specifically, this class is designed to approach the unique requirements of producing contemporary drama. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024C

4.0 Units

Rehearsal and Performance in Production - Classical

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in a classical theatre production. Scripts selected may include classical Greek, Roman, medieval, renaissance, and restoration dramas. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

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THEA - Theatre Arts

THEA 024D

4.0 Units

Rehearsal and Performance in Production - Musical

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in musical theatre rehearsal and performance, including operas, operettas, and musicals. Students will participate as vocalists, musicians, dancers and accompanists. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 027

3.0 Units

Technical Theatre in Production Show Run Crew

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following for live show running crews: Properties, Costume, Lighting, Sound, Stage Management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027A

3.0 Units

Technical Theatre in Production Show Run Crew - Comedy

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a comedy production, such as abstract and whimsical scenic design elements, comic color pallets and special property elements that are designed specifically to 'get a laugh'. Students will gain practical experience in the application of production run responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027B

3.0 Units

Technical Theatre in Production Show Run Crew - Drama

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements as used in a dramatic production such as, realistic and period scenic design elements: architecture as well as natural settings. Students will gain practical experience in the application of production responsibilities in any of the following for live show running crews: Properties, Costume, Lighting, Sound, Stage Management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027C

3.0 Units

Technical Theatre in Production Show Run Crew - Classical

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a classical production, such as historical and renaissance period design pieces and accurate stage properties of the time. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027D

3.0 Units

Technical Theatre in Production Show Run Crew - Musical

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a musical theatre production, such work can involve use of, scenery that has multiple settings, set pieces that employ special rigging, scenic wagons as well as special live audio and lighting effects. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

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THEA - Theatre Arts

THEA 032A Fundamentals of Costume Design 3.0 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 96-108 lab

Students will study costume history, design, and basic construction techniques as an introduction to theatrical costuming. Subject material can cover a variety of theatre genres, including: Musical Theatre, Drama, Comedy, and Classical works. Emphasis on illustration and design elements, including story boards and renderings. Students will analyze and examine scripts and research items related to costuming. Students will explore and learn how stock characters and their costumes can support an exaggerated theme and how these characters can have multiple costumes. Repeatable one time. (C-ID THTR 174)

THEA 032B Fundamentals of Costume Design 1.5 Units

Transferable to UC/CSU

Hours: 72-81 lab

This lab course is oriented for the student to work with the Costume requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of Costume responsibilities in any of the following: Assistant Designer, Tailor, Milliner, Cobbler, Cutter, Draper, Dyeing and painting, and alterations. Students will be given an increasing level of responsibility in accordance with their individual abilities. Repeatable 3 times.

THEA 032C Fundamentals of Costume Design - Classical 3.0 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 96-108 lab

Students will learn how to research costuming from historical Western eras such as: Greek, Roman, Medieval, and the Renaissance. Students will also study ancient Eastern, African, or other historical costumes, depending upon the semester's theatre production. Tailoring, heirloom sewing, theatrical closures, alterations and sewing shortcuts will also be included in instruction. (C-ID THTR 174)

THEA 032D Fundamentals of Costume Design - Musical 3.0 Units

Transferable to CSU

Hours: 16-18 lecture, 96-108 lab

Students will study musical costume history, design, and basic construction techniques as an introduction to musical theatre costuming. Fabrics and their various uses will be investigated. Students will learn how to design costumes for large musical casts with multiple costume changes. Students will also learn how music and dance influence costume construction. Each student will be given an increasing level of responsibilities in accordance with individual abilities. Successful completion of the costume production process may culminate in the areas of: Co-Costume Designer, Assistant Designer, Cutter, Tailor, First Hand, Stitcher, Milliner, Cobbler, Crafts Artisan, Wardrobe Supervisor or Dresser. Repeatable to a maximum of 12 units, including initial enrollment. (C-ID THTR 174)

THEA 035 Fundamentals of Musical Theatre: Acting 3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

The study, rehearsal, and class performance of musical works for the stage. Students will participate as performers, singing and moving but with an emphasis on acting.

THEA 036 Advanced Fundamentals of Musical Theatre 3.0 Units

Prerequisite: THEA 035

Course Advisory: THEA 001

Hours: 32-36 lecture, 48-54 lab

The advanced study of musical works for the stage. Advanced students will participate as performers, singers, and dancers but also study and participate as directors and choreographers for in class projects.

THEA 040 Acting for the Camera 3.0 Units

Transferable to UC/CSU

Hours: 48-54 lecture

A professional approach to the basics of on-camera acting. Areas of concentration include commercials, public service announcements, corporate videos, news reporting, and feature films. The course includes an in-depth approach to careers in media with concentration on agents, casting directors, resumes, pictures and the necessary tools for building a life as an actor.

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THEA - Theatre Arts

THEA 047 Technical Theatre in Production 3.0 Units

Transferable to CSU

Hours: 144-162 lab by arrangement

Oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following: Set Construction, Scenic painting, properties, costume, lighting, sound, live show running crews, stage management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. Repeatable 3 times.

THEA 047A 3.0 Units

Technical Theatre in Production - Comedy

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Comedy production, such as abstract and whimsical scenic design elements, comic color pallets and special property elements that are designed specifically to 'get a laugh'. Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities.

(C-ID THTR 192)

THEA 047B 3.0 Units

Technical Theatre in Production - Drama

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Drama production, such as, Realistic and period scenic design elements: Architecture as well as natural settings. The student will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities.

(C-ID THTR 192)

THEA 047C 3.0 Units

Technical Theatre in Production - Classical

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Classical production, such as Historical and renaissance period design pieces and accurate stage properties of the time. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities.

(C-ID THTR 192)

THEA 047D 3.0 Units

Technical Theatre in Production - Musical

Transferable to UC/CSU

Hours: 144-162 lab

Designed for the student to work with the unique technical requirements used in a Musical Theatre Production: Such work can involve use of scenery that has multiple settings, set pieces that employ special rigging, scenic wagons as well as special live audio and lighting effects. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. *(C-ID THTR 192)*

THEA 055 Advanced Theatre Touring Company 1.0 Unit

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Students will prepare and rehearse performances to tour throughout Solano County. Travel is required to various Solano County schools and venues for performances.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

THEA - Theatre Arts

THEA 148A

1.0 Unit

Special Advanced Topics in Theatre: For Actors

Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

THEA 148B

1.0 Unit

Special Advanced Topics in Theatre: Technical Theatre

Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

THEA 148C

1.0 Unit

Special Advanced Topics in Theatre: Costuming

Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

THEA 148D

1.0 Unit

Special Advanced Topics in Theatre: Management and Direction

Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

TUTR - Tutoring

TUTR 050 Tutoring Practicum

0.5 Unit

*Prerequisite**:* Completion with a minimum grade of B in the subject to tutor, instructor recommendation, permission of Tutoring Center personnel after verification of prerequisites, and concurrent assignment as a Tutoring Center or in-class tutor

Transferable to CSU

Hours: 8-9 lecture

Supervised practice in tutoring, examines the basics of learning principles, communication, listening skills, effective tutoring techniques and is required for all students who work or volunteer in the Tutoring Center.

TUTR 500 Supervised Tutoring

0.0 Units

*Prerequisite**:* Recommendation by the course instructor or a counselor or permission of the TUTR 500 instructor of record

Corequisite: concurrent enrollment in course or courses

in which tutoring assistance is being requested

Hours: 16-180 lab

Provides students tutorial support with instructional aids and student tutors to develop learning skills that enhance classroom achievement. In addition, Critical Skills for College Success Workshops are offered in many instructional areas. Tutor-supported computer labs are provided for academic use. This is an Open Entry/Open Exit, ungraded course.

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***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

TV - Television

TV 050 Survey of Broadcasting

3.0 Units

General Education: Option A: Area C; CSU: Area D
Transferable to CSU
Hours: 48-54 lecture

Introduction to radio and television as mediums of mass communication. The history, development and structure of radio and television are studied, and their impact on society and culture. Students are required to demonstrate knowledge of course content through written tests and projects.

TV 055 Beginning Television Production

3.0 Units

*Prerequisite**:* TV 050 with a minimum grade of D (may enroll concurrently)
Transferable to CSU
Hours: 48-54 lecture

Introductory training in the fundamentals of TV studio production, including producing, directing, scriptwriting, performing, production crewing, set graphics and designing. TV production projects are required.

TV 056 Advanced Television Production

3.0 Units

*Prerequisite**:* TV 055 with a minimum grade of D or previous television production experience
Transferable to CSU
Hours: 48-54 lecture, 16-18 lab

Presents the fundamentals of on-location and studio production applied to news, public affairs, and dramatic programs. Students are required to produce, direct, write, and crew on TV programs.

TV 060 Television and Film Writing

3.0 Units

Course Advisory: ENGL 001
Transferable to CSU
Hours: 48-54 lecture

Presents the fundamental principles, techniques and formats of writing for film and TV, including analysis and study of professionally written scripts. Scriptwriting assignments for news, public affairs, editorials, public service announcements, commercials, documentaries, and dramas are required.

TV 061 Advanced Film Writing

3.0 Units

*Prerequisite**:* TV 060 with a minimum grade of D or presentation of a treatment or well structured story line acceptable to the instructor.
Transferable to CSU
Hours: 48-54 lecture

Script writing for the motion picture, including dramatic structure, scene and sequence structure, and character development. Each student will complete an original script for a full length motion picture.

TV 099 Telecommunications Honors

1.0 to 3.0 Units

*Prerequisite**:* Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.
Transferable to CSU
Hours: 48-162 lab by arrangement.

Allows the advanced student to work independent of the structured classroom environment in areas of special concern during hours set by arrangement with instructor. Students are required to complete their independent study goals as arranged through contract with their instructor at the beginning of the semester. Students may take this course up to the maximum number of units over multiple semesters.

WATR - Water and Wastewater Technology

WATR 100 Wastewater Treatment I

4.0 Units

Hours: 64-72 lecture

Study of municipal and industrial wastewater collection and wastewater treatment methods, protection of ground water and receiving waters, and effects of pollutants on receiving waters.

WATR 101

4.0 Units

Basic Chemistry for Water and Wastewater

Hours: 64-72 lecture

Through lecture and demonstrations, the student will develop the ability to analyze and determine if proper levels of purification, content of acidity, alkalinity, hardness, and other water quality criteria have been achieved for water or wastewater treatment.

WATR 103

3.0 Units

Biological Principles of Water and Wastewater

Hours: 48-54 lecture

Examine the biological and ecological properties of the bacteria, protozoa, fungi, algae, viruses, and animals whose control is important to the provision of safe drinking water supplies and environmentally safe wastewater. The course emphasizes the microbiology of drinking water, wastewater, and activated sludge, and examines the microbial sampling, analysis, and treatment strategies important in this industry.

WATR 104 Water Treatment I

3.0 Units

Hours: 48-54 lecture

Examine the elementary engineering aspects of the design, operation, process control, and facilities of a plant designed to treat and purify drinking water.

WATR 105 Wastewater Treatment II

3.0 Units

*Prerequisite**:* WATR 100 with a minimum grade of D

Hours: 48-54 lecture

Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities.

WATR 106 Instrumentation and Controls

3.0 Units

Hours: 48-54 lecture

Study of pneumatic, mechanical and electronic control systems and components. Includes a basic description and explanation of the operation of instruments and controls for water and wastewater plants. Typical performance characteristics, accuracy, and applications of instruments are studied.

WATR 107

4.0 Units

Mathematics of Water and Wastewater Treatment

Hours: 64-72 lecture

A study of calculations - hydraulics, chemicals, solids - used in the design, operation, process control, and maintenance of treatment plants and facilities.

WATR 108 Water Treatment II

3.0 Units

*Prerequisite**:* WATR 104

Hours: 48-54 lecture

Advanced topics in the control of ions and disinfecting chemicals in drinking water. In addition it covers the issues of safety, regulation, administration, and maintenance of a water treatment plant. This course will often be taught at an off-campus site. Three hours lecture.

WATR 112 Wastewater Treatment III

2.0 Units

*Prerequisite**:* WATR 105 with a minimum grade of D

Hours: 32-36 lecture

Advanced topics appropriate to a wastewater treatment facility including activated sludge, residual solids management, solids removal from secondary effluents, phosphorus and nitrogen removal, enhanced biological (nutrient) control, wastewater reclamation and recycling, and odor control. This course is often taught off-site.

WATR 120

2.0 Units

Distribution Systems Maintenance

Hours: 32-36 lecture

Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems.

WATR 121 Collection Systems Maintenance

2.0 Units

Hours: 32-36 lecture

Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems.

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WATR - Water and Wastewater Technology

WATR 125 Water Conservation

2.5 Units

Hours: 40-45 lecture

Water conservation includes the study of methods to reduce water use, loss, and waste, and methods to increase water efficiency in an effort to minimize the amount of water used to accomplish a function or task. This course combines subject matter lectures and planned learning experiences so students learn the principles involved in the conservation and efficient use of water resources for economic, environmental, and regulatory purposes. Students will learn about water supply and demand; utility water demand characteristics and water rates; residential, commercial, and landscape water use measurements; water management planning, and how to perform various types of water audits.

WATR 126 Pumps and Motors

3.0

Units

Hours: 48-54 lecture.

This course examines the design and operation of pumps and motors with special emphasis on the types of pumps used in the water and wastewater industries.

WELD - Welding

WELD 130 Beginning Shielded Metal Arc Welding (Stick 7018/ 6010 Basic) <i>Hours: 32-36 lecture, 48-54 lab</i> Builds arc welding skills with an emphasis on flat and horizontal welding. Course activities prepare students for welding certification and advanced welding classes. Welding applications and parameters are discussed and applied throughout the class developing the student's ability to problem solve and develop welding skills.	3.0 Units	WELD 136 Beginning Structural Steel and Flux Core Arc Weld (FCAW) <i>Prerequisite**:</i> WELD 130 <i>Hours: 32-36 lecture, 48-54 lab</i> An emphasis on developing skills on structural steel and FCAW practices. Related instruction will include ferrous metal identification and welding characteristics, Flux core welding applications and variable, dual shield inert shielding gases and mixtures, troubleshoot FCAW equipment and welds completed in the flat and horizontal positions (1G and 2G).	3.0 Units
WELD 131 Intermediate Shielded Metal Arc Welding (Stick Welding) <i>Prerequisite**:</i> WELD 130 <i>Hours: 32-36 lecture, 48-54 lab</i> Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve, develop and enhance welding skills.	3.0 Units	WELD 145 Intermediate Pipe Welding 7018 STK (SMAW) <i>Prerequisite**:</i> WELD 130 <i>Hours: 32-36 lecture, 48-54 lab</i> Pipe Welding code, pipe classification and identification with an emphasis on API 1104 certification. Completion of the class does not guarantee certification unless welding procedure qualification tests are passed.	3.0 Units
WELD 132 Advanced SMAW (Stick Welding) <i>Prerequisite**:</i> WELD 131 <i>Hours: 32-36 lecture, 48-54 lab</i> Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment in the metal trades. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve and develop welding skills. This course is designed to enhance welding skills and employability in the field of structural iron working. This course also prepares the student for the American Welding Society plate code D1.1 unlimited thickness in all position certification.	3.0 Units	WELD 175 CNC Plasma (Cutting Automation) <i>Hours: 32-36 lecture, 48-54 lab</i> Educates students on automated plasma cutting skills and processes and related CNC metal working equipment.	3.0 Units
WELD 135 MIG (GMAW) Welding <i>Prerequisite**:</i> WELD 130 <i>Hours: 32-36 lecture, 48-54 lab</i> Advances the skills previously taught in WELD 130 and moves the student forward in a career of manufacturing and facilities maintenance. This course covers 2F, 3F and 4G positions (vertical and overhead positions). This course also covers Aluminum spool guns and 35 pound Stainless steel 304 and 308 wires.	3.0 Units	WELD 500 Independent Study <i>Prerequisite**:</i> Permission of the instructor <i>Hours by arrangement as required</i> Assists with vocational placement for advanced welding students who have sufficient background in welding fundamentals to pursue more independent study in the area of their choice. Each student works by arrangement with the instructor on an outlined program of study, to achieve independent objectives. This is an Open Entry/ Open Exit course.	0.0 Units

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor

***All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted*

Faculty & Administration

ADMINISTRATION

Borelli, Alysa

Dean, Enrollment Services
B.A., UC, Berkeley
M.A., University of Phoenix

Conner, Kristin

Dean, Counseling Services
A.A., Diablo Valley College
B.A., CSU, Sonoma
M.S., CSU, San Francisco
Ed.D., University of San Francisco

Cooper, Shannon

Vice President, Student Services
B.A., UC, Davis
M.S., CSU, Sacramento
Psy.D., University of San Francisco

Esposito-Noy, Celia

Superintendent-President
B.A., CSU, San Francisco
M.A., Stanford University
Ed.D., Mills College

Glines, Neil

Dean, School of Liberal Arts
B.A., Carroll College
M.A., CSU, Northridge

Hudson, Sheila

Dean, School of Health Sciences
B.A., UC, Berkeley
M.A., Ed.D., CSU, Los Angeles

Lamba, Sandy

Dean, School of Social and Behavioral Sciences
B.S., UC, Davis
M.A., Alliant International University
M.B.A., National University

Lewis, Shirley

Dean, Academic Support Services
B.A., J.D., UC, Davis

Neeley, Lisa

Dean, School of Applied Technology and Business
B.A., Stanford University
M.A., UC, Los Angeles

Ryan, Joseph M.

School of Mathematics and Science
B.S., CSU, San Francisco
Ph.D., UC, Davis

Williams, David

Vice President, Academic Affairs
B.A., Evangel University
M.A., Missouri State University
Ph.D., UC, Davis

Zitko, Peter "Tony"

Interim Associate Dean of External Programs
B.A., Ashford University
M.A., American Public University
Ed.D., American College of Education

COUNSELING/DSP/ CalWORKs/EOPS

Anderson, James "Jim"

A.A., Solano Community College
B.A., M.S., CSU, Sacramento

Cittadino, Nicholas

B.S., University of Idaho
M.A., Chapman University

Dauffenbach, Amy

B.S., University of Wisconsin,
Madison
M.S., CSU, Sacramento

Jones-Foster, Priscilla J

B.A., M.A., CSU, Sonoma

LaCount, Rebecca

B.A., UC, Berkeley
M.S., CSU, San Francisco

McDaniels, Marcie

B.A., CSU, Sacramento
M.A., CSU, East Bay
M.A., Chapman University

Mouton, Jocelyn

B.A., CSU, San Francisco
M.S.W., UC, Berkeley

Roe, Candace

B.A., M.S., CSU, Sacramento

Sta Maria, Kamber

B.A., M.A., Saint Mary's College

LIBRARY SERVICES

Duane, Erin

B.A., Gonzaga University
M.L.I.S., CSU, San Jose

Frey, Atticus

B.A., CSU, San Francisco
M.L.I.S., UC, Los Angeles

Fuller, Ruth

B.A., UC, Santa Cruz
M.A., University College, London

SCHOOL OF APPLIED TECHNOLOGY AND BUSINESS

Anderson, Kevin

B.A., UC, Berkeley
J.D., San Francisco Law School

Beam, Erica

B.S., CSU, Stanislaus
M.B.A., CSU, Sacramento

Berrett, Debra

A.S., Solano Community College
B.S., Southern Illinois University
M.S., University of Nebraska, Lincoln
M.S. Capella University

Berrett, Mark

A.S., Solano Community College
B.S., Southern Illinois University
M.S., University of Phoenix

Cary, Adrienne

B.S., University of Wisconsin
M.A., New York University

Cook, Karen

B.S., Valparaiso University
M.Ed., Azusa Pacific University

Green, Douglas

B.S., UC, Davis
M.A., National University State
University

Hidy, Paul

B.S., CSU, Long Beach

Kissinger, Jeffrey

B.A., Chapman University

Maghoney, Laura

B.A., M.A., UC, Davis

Marshall, Ricky E. "Rick"

B.S., Louisiana Baptist University

Mayes, Brooks

B.A., CSU, Sacramento

McGee, Andrew

A.S. Community College of the Air
Force
A.S., American River College
B.A., CSU, Sacramento

Nordin, Sarah

B.A., Westfield State College
M.S., Sam Houston State University

Slaton, LaVonne

B.A., CSU, Sacramento
M.B.A., University of Phoenix
Ph.D., Case Western Reserve
University

Spoelstra, Kevin

A.S., Spartan School of Aeronautics
B.S., Embry-Riddle Aeronautics
University

Urrutia, John

B.S., University of Nevada, Reno
M.S., National University

Faculty & Administration

SCHOOL OF HEALTH SCIENCES

Averett, Joyce

B.S., CSU, Bakersfield
M.S., Liberty University

Borchert, Matthew

B.A., CSU, San Jose
M.S., St. Mary's College

Bourdon, Ingeborg

B.S., M.S., UC, Davis

Bower, Brian

EMT-P, Riverside Community College
B.S., Southern Illinois University,
Carbondale

Brown, Curtiss

B.A., CSU, Chico
M.S., University of Oklahoma

Cain, Ginger

B.A., Cornish College of the Arts
M.A., St. Mary's College

Cardinal, Jeffrey

B.S., CSU, Hayward
M.A., CSU, San Jose

Craig, Erin

B.B.A., Loyola University
B.S., M.S., Rush University
C.N.S.- B.C., P.M.H.N.P.-B.C. by ANCC

Dorrrough, Debbie

R.N., Solano Community College
B.S.N., M.S.N. Ed., Western Governors
University

Enemmuo, Vitalis

B.S., University of Nigeria
M.S., Ph.D., University of Phoenix

Freed, Elizabeth

B.S.N., M.S.N. Ed., Western Governors
University

Kargbo, Myra L.

B.S., M.S., Chamberlain College

Macalino, Marivic

B.S.N., Saint Louis University,
Philippines
M.S.N., University of Phoenix

Marks, Kevin

B.A., CSU, Stanislaus
M.S.S., United States Sports Academy

Morinec, Maíre

B.S.N., Georgetown University
M.S., University of Michigan

Nagle, John

B.A., UC, Los Angeles
M.S., CSU, Sacramento

Parrish, Scott

B.S., California Polytechnic State
University, San Luis Obispo
M.Ed., Azusa Pacific University

Pearson-Bloom, Theresa

B.A., CSU, Northridge
M.S., Western Illinois University
M.S., Lasell University

Preciado, Brian

B.S., University of Redlands
M.B.A., University of Redlands
Retired Fire Chief, Vacaville Fire
Department

Stover, Scott

B.A., Chapman University
M.S.S., United States Sports Academy

Sytsma, Robin

B.S., San Diego State University
M.S., University of New Haven

Williams, Darla

B.S., St. Mary's College
M.A., University of La Verne

SCHOOL OF LIBERAL ARTS

Anderson, Isabel

B.A., M.A., CSU, San Francisco

Barsness, Sarah

B.A., Evergreen State College
M.F.A., San Francisco Art Institute

Cobene, Harold "Lou"

B.A., M.A., CSU, Sacramento

Cortes, Jose

B.A., CSU, Chico
M.A., CSU, Sonoma

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Farmer, Erin

B.A., M.A., Mills College

Florence, Ferdinanda

B.A., American University
M.A., University of Maryland

Gallagher, Hui Hui "Gwen"

B.A., CSU, Northridge
M.A., CSU, East Bay

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B.A., M.A., CSU, Sonoma

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B.A., MFA., M.A., UC, Santa Barbara

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B.A., California College of the Arts
M.A., Yale University

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M.A., CSU, San Francisco

McBride, Christopher

B.A., University of Connecticut
M.A., Trinity College
Ph.D., Claremont University

McKinnon, Sarah

B.A., UC, Santa Cruz
M.A., Trinity College

Mungin, Douglas

B.A., CSU, San Francisco
M.A., Ph.D. Louisiana State University

Pandone, Marc

B.A., Connecticut College
M.F.A., California College of Arts and
Crafts

Pirott, Laura

B.A., University of Southern California
M.A., Ph.D., Brown University

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B.A., M.A., CSU, Long Beach

Reeve, Melissa

B.A., UC, Berkeley
M.A., University of Hawaii at Manoa

Schneider, Tracy

B.A., UC, Davis
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Schouten, Jonathan

B.A., M.A., CSU, Sacramento
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M.A., CSU, San Francisco

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D.M.A., USC

Faculty & Administration

SCHOOL OF MATHEMATICS AND SCIENCES

Allen, Darryl

B.S., M.S., CSU, Hayward

Brewer, Kevin

B.S., East Texas State University
M.A., UC, Davis

Conrad, Joseph

B.S., Pennsylvania State University
M.A., University of Maryland
Ph.D., Pennsylvania State University

Conrad, Kathleen

B.S., UC, Davis
M.S., Ph.D., Pennsylvania State University

Dekloe, James

B.A., M.A., and C. Philosophy,
UC, Los Angeles

Diehl, Sandra

A.S., Solano Community College

Donovan, Sarah

B.A., UC, Santa Cruz
M.A., UC, Davis

Eskandari, Vahid

B.S., Azad University of Tehran
M.S., University of San Francisco
Ph.D., UC, Davis

Esteve, Carlos

B.S., Tulane University
M.S., University of New Orleans

Ferrebee, Kristina

B.S., Savannah State University
M.S., New York State Chiropractic College

Grube, Thomas

B.S., University of Wisconsin,
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M.S., CSU, Hayward

Gunther, Susanna

B.S., M.A.T., UC, Davis
B.S., O.D., UC, Berkeley

Hannan, Zachary

B.S., M.S., UC, Davis

Higashi, John

B.A., UC, San Diego
Ph.D., University of Utah

Itaya, Patricia, Professor Emeritus

B.A., Hendrix College
Ph.D., University of Tennessee

Jian, Alan

B.A., Zhongsham University
M.A., CSU, San Francisco
Ph.D., UC, Davis

Kaur, Kiran

B.S., University of Mumbai
M.S., Shreemati Nathivai Damodar Thackersey Women's University in Mumbai, India

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Long, James

B.S., Iowa State University
B.S., University of Iowa
Ph.D., UC, Davis

Lutz, Melanie

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Martinelli, Will

B.A., UC, Davis
M.A., UC, Santa Cruz

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Ph.D., UC, Davis

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M.A., CSU, San Francisco

Podkolzina, Svetlana

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B.S., Brigham Young University
M.S., UC, Davis

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B.Sc., Kocaeli University, Turkey
M.Sc., Kocaeli University, Turkey
M.Sc., Indiana University of Pennsylvania
Ph.D., University of South Florida

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B.S., University of Puerto Rico
M.S., University of South Carolina

Sengmany, Kheck

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M.S., CSU, Hayward

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B.S., UC, Santa Barbara
M.S., CSU, Channel Islands

Smith, Michelle

B.S., M.S., Michigan State University

Valch, Mary A.

B.S., Sofia University, Bulgaria
M.S., CSU, East Bay

Widemann, Danielle

B.S., UC, Davis
M.S., UC, Santa Cruz

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B.S., Oregon State
M.S., Portland State
Ph.D., University of Western Australia

Young, Maria Cristina

M.D., UC, Davis

Zhiv, Dmitriy

B.S., M.S. Belarussian Polytechnical Institute
M.A., CSU, San Francisco

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

Arce, Michelle

B.A., UC, Davis
M.A., UC, Santa Barbara

Ayala, Anthony

B.A., CSU, East Bay
M.A., Pacific Oaks College

Bolz, C. Sabine

B.S., Justus-Liebig Universitaet Giessen, Germany
Hauptdiplom (ABD) Carl-von-Ossietzky Universitaet Oldenburg, Germany

Bundenthal, Thomas

B.A., University of Alabama, Tuscaloosa
M.A., University of Alabama, Huntsville

Cabrera, Saki

B.A., Iona College
M.A., Ph.D., Claremont Graduate University

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B.A., Michigan State University
M.A., CSU, San Francisco

Jaime, Theresa "LaNae"

B.A., University of Oklahoma
M.A., Ph.D., University of Texas, Austin

Johnson, Tonmar

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M.S., CSU, Sacramento

Obegi, Amy

B.A., B.S., UC, Davis
M.S., San Diego State University

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B.A., M.A., CSU, Sacramento

Smith, Tasha

B.A., UC, Berkeley
Ph.D., Stanford University

Taylor-Hill, Lauren

B.S., UC, Davis
M.A., Arizona State University

Staff & Administration

ACADEMIC AFFAIRS

Gover, Claire
Kaushal, Sheila - Academic Senate
Zadnik, Carol - Distance Ed

ADMISSIONS & RECORDS

Aten, Maeghan
Beavers, Susan
Bennett, Cory
Dunn, Kendra
Hernandez, Sandra
Logarta, Carmela
Luttrell-Williams, Donna
Prise, Alyssa
Robinson, Edna
Siefert, John
Smith, Erika "Ricky"
Stewart, Ward
Uhl, Andrea

ACADEMIC SUPPORT SERVICES

Cheatham, Amber
Leon, Gema
Park, Nedra

ATHLETICS

Aubert, Alison
Pegg, Melissa
Visser, Erik - Director

CAMPUS SHERIFF'S OFFICE

Molinari, Alma

CORRECTIONS EDUCATION & REENTRY

Zitko, Peter "Tony" - Director

COUNSELING

Avello, Victor "Mauricio" - EOPS
Burt, Emily - Transfer Center
Monroy, Rosa
Moore, Carolyn - DSP
Nash, Judy - DSP
Parker, Sidne - DSP
Perrett-Ashby, Robin
Sloan, Robin
Thomas, Makesha - CalWORKS
Young, Patricia - Career and Employment Services Center

CURRICULUM & SCHEDULING

Abbott, Lisa
Corbin, Jessica

EARLY LEARNING CENTER

Alsip, Dana
Drake, Sabrina
Hawkins, Katherine
Smith, Dyan
Rothwell, Phoenix
Spann, Patricia
Speck, Christie - Director
Stedman, Lisa
Tarbell-DeOcampo
Takhar, Jotinder
Vartanian, Juwan

EDUCATIONAL FOUNDATION

Amick, Eileen
Johnston, Curt - Director

FACILITIES

Arellano, Veronica
Atoigue, Sandra
Balabis, Gavino
Brown, Robert
Ceja, Robert
Corpus, Jose
Corpus, Manuel
Cross, Richard
Cunningham, Vernon
Del Pilar, Eduardo
Ercole, Steven
Ercole, Taylor
Estantino, Teddy
Finley, Paul C.
Garcia, Arthur
Gonzales Garcia, Oscar
Gonzalez, Danielle "Dani"
Hord, Myron - Asst Director
James, Steven
Kassa, Kahsay
Lehfeldt, Jeffery
Lofton, Lucky - Director
Loza, Isaias
Moreno, David
Murillo, Alfredo "Danny"
Porter, Herman
Robinson, Laura
Rose, Michael D
Russo, Gloria
Srisung, Padungsak
Trujillo, Kelly
Uquillas, Jerry

Willmschen, Keith
Yi, Jason - Project Mgr, Bond

FINANCIAL AID

Blue, Jessica
Dipasquale, Nancy
Hammond, Zachary
Larot, Kate
Larot, Zyra
Miller, Diana
Minchillo, Fiorella
Troupe, Anna
Troupe-Gardner, Antoinette

FISCAL SERVICES/ PAYROLL

Beckham, Shannon
Bender, Virginia
Collins, Marilou
Disu, Carmine
Hesling, Jennifer
Latimer, Lorrie
Lim, Amanda
Malone, Handel - Purchasing
Nalley, Anita
Ramirez, Elsy
Ramirez, Sylvia
Rodriguez-Valenzuela, Ricardo
Sanchez, Edith
Scott, Laura - Purchasing

HUMAN RESOURCES

Abbate, Salvatore - Manager
Drake, Tracy
Meachum, Amy
Mitchell, Karen
Vest, Tracy

INFORMATION TECHNOLOGY

Abbate, Tina
Augustus, James
Brooks, George
Calilan, James "Kimo" - Director
Escobar, Steve
Howell, Justin
Leal, Jose "Rei"
Makosa, Seweryn
Nunez, Robert
Ota, Scott
Swanson, Steven G
Tanaka, Ray
Tom, Galen
Weng, Tingan
Zavala, Pete

LIBRARY SERVICES

Bains, Rashmi
Maguire, Carla

OUTREACH

Castaneda, Alexandra

RESEARCH & PLANNING

Tenty, Claudia
Van'T Hul, Pei-Lin

SCHOOL OF

APPLIED TECHNOLOGY & BUSINESS

Calvo, Julene
Cetani, Frank
Ceja, Patricia
Crompton, Jill M.
Gravelly, Barbara
Miranda, Maria
Suriben, Ritzdane
Williams, Andre

HEALTH SCIENCES

Schwartz, Janet

LIBERAL ARTS

Cox, Katherine
Jones, Leigh Anne
Laws, Sidney
Meyer, Donna
Scharfen, Craig
Tipton, Darcia

MATHEMATICS & SCIENCES

Eason, Angela
Eleazar, Iralyn
Kaywood, Kayla
Mundell, Kelsi

SOCIAL & BEHAVIORAL SCIENCES

Leary, Janet

SMALL BUSINESS

Eason, Charles

STUDENT LIFE

Slade, Rischa

STUDENT SERVICES

Thao, Chor

Staff & Administration

**SUPERINTENDENT-
PRESIDENT, OFFICE**
Therrien, Alexandra "Sandra"

TITLE IX
Thao, Chor

VACAVILLE CENTER
Astorga, Ariana
Bains, Ruhpreet K.
Gonzalez, Jenny - & Travis AFB
Graham, Debbie L.
Hume, Jayne
Kucala, Christine
Laroski, Donna
Liu, Calvin
Low, Jennifer

VALLEJO CENTER
Camins, Irene
Kaur, Simerjeet
Mayne, Marie

**VETERANS RESOURCE
CENTER**
Amy Kennedy

WAREHOUSE
Barron-Griffin, Connie
Loza, Porfirio - Courier

Telephone Directory

Solano Community College Main Line - (707) 864-7000

Web Site: www.solano.edu

Solano Community College's main telephone line is an automated system All direct lines and extensions have 24-hour voicemail.

Academic Affairs.....	864-7102	Human Resources.....	864-7128
Aeronautics/Nut Tree.....	864-7185	International Education Program (SIEP).....	864-7171
Admissions and Records.....	864-7171	Library Circulation/ Library Reference Desk.....	864-7000 ext. 4519
Associated Students Solano College (ASSC).....	864-7268	Lost and Found.....	864-7168
Assessment Center.....	864-7000 ext. 4525	Maintenance and Operations.....	864-7197
ASTC (Academic Success and Tutoring Center).....	864-7230	Math Activities Center (MAC Lab).....	864-7138
ASTC-STEM.....	864-7000 ext. 4498	Occupational Work Experience.....	864-7139
Athletics.....	864-7119	Parking Information.....	864-7113
Automotive Technology Center.....	864-7151	School of:	
Bookstore.....	864-7111	Applied Technology and Business.....	864-7229
CalWORKs.....	864-7000..... ext. 4645	Health Sciences.....	864-7108
Cafeteria.....	863-7887	Liberal Arts.....	864-7114
Campus Sheriff's Office.....	864-7131	Mathematics and Sciences.....	864-7211
Campus Sheriff's Office (After Hours).....	580-6526	Social and Behavioral Sciences.....	864-7251
Canvas/Distance Education.....	864-7133	Student Health Center and Services.....	864-7163
Career and Employment Services Center.....	864-7124	Superintendent-President.....	864-7299
Community Services/Facility Rentals.....	864-7000 ext. 4400	Student Life Center.....	864-7168
Cosmetology Receptionist.....	864-7180	Student Services Office.....	864-7173
Counseling.....	864-7101	Travis Air Force Base Center.....	424-2431
Disability Services Program (DSP).....	864-7136	Technology Support Services/ Help Desk.....	864-7000 ext. 4690
Early Learning Center.....	864-7182	Theatre Box Office.....	864-7100
Educational Foundation.....	864-7141	Transfer Center.....	864-7158
English Lab.....	864-7239	UMOJA Office.....	864-7134
EOPS/CARE.....	864-7000.... ext. 4444	Vacaville Center.....	863-7836
Finance and Administration.....	864-7147	Vallejo Center.....	642-8188
Financial Aid.....	864-7103	Veterans Resource Center.....	864-7105
Fire Academy.....	864-7000..... ext.4582		

Glossary

Academic Year - Consists of the summer session and fall semester of one calendar year and the spring semester of the following calendar year.

Accredited Institution - A college or university which has been accredited by an institutional accrediting body which is recognized by the Council on Postsecondary Accreditation and the U.S. Department of Education.

Add - Officially enrolling in a course.

Area of Study - A broad area of academic interest identified by a three- to four-digit alpha code for example Psychology (PSYC) or Art (ART).

Assessment/Placement Tests - Tests given prior to registration in classes. The results are used to determine the student's placement at the most appropriate class level. Some placement may be based on other criteria, like High School grades or courses taken. See the Placement Center for details. Per AB705 assessment is no longer required to enroll in English or Math classes.

ASSIST - A computerized student-transfer information system that can be accessed over the World Wide Web. It displays reports of how course credits earned at one California college or university can be applied when transferred to another. ASSIST is the official repository of articulation for California's colleges and universities and therefore provides the most accurate and up-to-date information available about student transfer in California. The ASSIST web site is: www.assist.org.

Associate Degree (A.A. or A.S.) - A degree (Associate in Arts or Associate in Science) granted by a community college which recognizes a student's satisfactory completion of an organized program of study of at least 60 units, including the major and general education requirements.

Associate Degree for Transfer (AD-T) - An Associate Degree for Transfer (ADT) is a guaranteed pathway for transfer into the California State University (CSU) system. After earning an Associate of Arts for Transfer (AA-T) or Associate of Science for Transfer (AS-T) degree, students will be guaranteed admission to a CSU campus with junior standing.

Attempted Hours (AH) - Total number of units in the courses for which a student has enrolled and received a grade of A, B, C, D or F.

Bachelor's Degree (B.A., A.B., or B.S.) - A degree granted by a four-year college or university which recognizes a student's satisfactory completion of an organized program of study consisting of at least 120 semester units. Solano Community College offers a B.S. in Biomanufacturing.

CalWORKs - California Work Opportunities and Responsibility to Kids program is available at Solano Community College. Students in this program will be referred by Solano or Yolo County Social Welfare Departments. This welfare-to-work program will enable welfare recipients to attain job training skills.

CARE - Cooperative Agency Resources for Education (CARE) is a supplemental component of EOPS that specifically assists EOPS students who are single heads of welfare households with young children, by offering supportive services so they are able to acquire the education, training and marketable skills needed to transition from welfare-dependence to employment and eventual self-sufficiency for their families. Every CARE student is an EOPS student who must meet the eligibility criteria for both programs.

Canvas - The Learning Management System used by Solano Community College to deliver online courses. Class materials, assignments and communications are accessed through the Canvas website.

Certificate of Achievement - A certificate granted by a community college which recognizes a student's satisfactory completion of an organized program of vocational study in the major.

Class Section - Specific class meetings of a Course identified by a Course Reference Number or CRN. See Course Reference Number (CRN).

College Work Study (CWS) - A program of federal aid which provides funds for student jobs.

Community Education Course - Fee-based, not for credit courses offered through the College.

Concurrent Enrollment - Taking one course at a CSU or UC campus while also enrolled at Solano Community College. Also refers to high school students enrolled in a college course.

Glossary

Corequisite - There are two types of corequisites. The first is a course or equivalent preparation that must be taken concurrently with another course. The second is a course or equivalent preparation that may be completed before OR taken concurrently with another course. Both types of corequisites are listed under "Prerequisites," but the second type is followed by the parenthetical phrase "may be taken concurrently." A student's enrollment in a course with a corequisite is blocked until the requirements of the corequisite are satisfied.

Course - A particular topic within an area of study. This is identified by a course number. See "Course Number."

Course Advisory - A course or equivalent preparation that will broaden or deepen a student's learning experience in a subsequent course. A student's enrollment in a course with an advisory is not blocked for lack of the advisory skills.

Course Description - Brief statement about the content of a particular course.

Course Number - A three- to four-digit number or alphanumeric number to identify a particular subject topic for example, Psychology 001 (PSYC 001) or Kinesiology (KINE) 006E.

Course Reference Number (CRN) - The 5-digit number assigned to a specific class section each semester. Starting with 1 for Spring, 6 for Summer and 8 for fall.

Credit - Refers to the units earned by completing a class.

Credit-by-Examination - Course or unit credit granted for demonstrated proficiency in a given area as determined by an examination.

CSU - California State University System. The CSU web site is www.calstate.edu.

Degrees - A diploma granted by a college stating that the student has attained a certain level of ability in a specific field. The most common degrees are:

- 1) A.A.— Associate in Arts;
- 2) A.S.— Associate in Science;
- 3) B.A.— Bachelor of Arts;
- 4) B.S.— Bachelor of Science;
- 5) M.A.—Master of Arts;
- 6) Ph.D.—Doctor of Philosophy; and
- 7) Ed.D.—Doctor of Education.

Disqualification - A situation caused by low academic or progress performance, in which the disqualified student may not continue at the college without approval for readmission. See Catalog section on Academic Regulations.

Drop - Selectively withdrawing from a course, but remaining enrolled in college.

Drop Dates - 1) Last day to drop a class with no course or grade recorded (at the 30% point of the class); 2) Last date to drop a class with "W" grade recorded (at the 62.5% point of the class).

DSP - Disability Services Program offers supportive services for students with physical, communication, learning or psychological disabilities or other medical problems.

Elective - Courses which are not required for the major or general education but are acceptable for credit. An elective course may be in the student's major area of study or any department of a college.

EOPS - Extended Opportunity Programs and Services (EOPS) primary goal is to encourage the enrollment, retention and transfer of students disadvantaged by language, social, economic and educational circumstances, and to facilitate the successful completion of their goals and objectives in college. EOPS offers academic and support counseling, financial aid and other support services.

EUREKA - A computerized career information system available to students in the College Career and Employment Services Center.

Full-time Student - A student taking twelve or more class units in a regular Fall/Spring semester or six units in Summer.

General Education Requirements - Courses covering the broad area of thought and experience common to every person.

Good Standing - Indicates that a student's grade point average in the previous semester and cumulative grade point average is C (2.0) or better.

Grade Points - The numerical value of a college letter grade, A=4, B=3, C=2, D=1, others=0.

Glossary

Grade Point Average - Grade point average (GPA) indicates an overall level of academic achievement. It is an important measure used in making decisions on probation and disqualification, eligibility for graduation, and transfer to four-year institutions. The grade point average is derived from the following unit system:

A = 4 grade points per unit

B = 3 grade points per unit

C = 2 grade points per unit

D = 1 grade point per unit

F = 0 grade points per unit

The GPA is calculated by dividing the total number of grade points received by the number of units attempted.

Guided Pathways - A highly structured approach to student success that provides students with a set of clear course-taking patterns that promotes better enrollment decisions and integrates support services in ways that make it easier for students to get the help they need.

Honors - These courses are designated with the course number "049" or "099" in the discipline in which they are offered. These courses have prerequisites. Please see the dean of the appropriate discipline area for more information.

Hour - Same as credit, credit unit, unit (See Credit).

Hybrid Course - A class presented using a combination of instructional formats. Both in-class and online instruction, assignments, and activities are included in hybrid courses.

IGETC - Intersegmental General Education Transfer Curriculum. Completion of the IGETC will permit a student to transfer from a community college to a campus in either the California State University or University of California system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus G.E. requirements. (See counselor for exceptions).

Independent Study - Opportunity to do individual study in areas not covered in a regular course.

Job-Direct Certificate - A certificate granted by Solano College which recognizes a student's satisfactory completion of a shortened program of study specifically designed to prepare students for employment in the identified field.

Late Start - Courses or programs offered in an accelerated mode. Some courses can be completed in less than a semester. Some programs can be completed in less time than normally offered programs.

Learning Community - A class where students work together with a team of instructors from different subject areas to study a theme or question. Learning community classes involve less traditional lecture and more seminar, discussion, and group activities.

Learning Disability Program - This program offers specialized services and instruction to students that have been identified as learning disabled.

Lower Division - Courses at the freshmen and sophomore level of college.

Major - An organized program of courses leading to an Associate Degree or Occupational Certificate.

Matriculation - A process which brings a college and a student who enrolls for credit into an agreement for the purpose of realizing the student's educational objective. A primary part of matriculation is the assessment, orientation, and counseling of new nonexempt students. The following students are exempted from the matriculation process:

- 1) Students who have completed an Associate degree or higher;
- 2) students who seek to enroll in noncredit courses only;
- 3) students indicating an education goal of job skills (to maintain current job), personal interest (not for employment), complete credits for high school, or maintain certificate or license (i.e., nursing, real estate).

Minor - The subject field of study which a student chooses for secondary emphasis.

MySolano - A web-based portal for students to look up classes, register for classes, get grades, request transcripts, get news and information, email and more visit **www.solano.edu**.

Noncredit Course - Courses numbered 500-799 which grant no college credit or student grades. A noncredit course should not be confused with the credit/nocredit grading option defined above.

Glossary

Online Courses - Courses offered by Solano Community College that can be completed entirely online through the Internet. Instructor and student interact in a variety of ways (email, chat rooms, discussion boards). Course content and assignments are equivalent to comparable courses taught on campus. Online courses follow the same semester schedule as on campus classes; they are not self-paced. However, students have more flexibility over their study time in an online course. Some online courses may require occasional on-campus meetings for orientations or exams.

Open Entry - Courses which students may enroll in throughout the semester.

Open Exit - Courses which may be completed upon fulfillment of course requirements at any time during the semester.

Pass/No Pass - A grading system by which units of credit may be earned but no letter grade is assigned. Such units are not used in computing the grade point average. The credit/no-credit grading option should not be confused with noncredit courses defined above.

Passed/Earned Hours (PH/EH) - Total number of units in the courses for which a student has received a grade of A, B, C, D, F, or CREDIT.

Prerequisite - A course or equivalent preparation that must be completed before enrolling in another course. A student's enrollment in a course with a prerequisite is blocked until the requirements of the prerequisite are satisfied.

Probation - A trial period in which a student must improve scholastic achievement.

Program of Study - A planned series of courses and activities.

Registration - The process of selecting and enrolling in classes and paying the required fees.

Schedule of Classes - A list of courses offered for a particular semester, which can be found online at www.solano.edu, and which list by subject, course number, CRN, course title, units, instructor, time, and location.

Semester - A subdivision of the academic year into two sessions, usually fall and spring, each lasting approximately seventeen weeks.

Smart Classroom - A classroom in which the instructional methods used may include a variety of multimedia technologies such as computers, CD ROM, VCR, Laser Disk, Internet and presentation software programs.

Student Load - The number of class units which a student takes in any given semester. A full student load is twelve or more units. A normal full-time class load is fifteen units.

SCCID - All Solano College students will be issued a unique 9-digit SCCID upon submission of online application for admission. This randomly assigned number has no connection to your social security number.

Substandard Grades - A grade of D, F, or NC. (Title V 55761).

TAG - Transfer Admission Guarantee is a formal, written agreement that offers students guaranteed admission to a University.

TANF - Transitional Assistance to Needy Families is available at Solano Community College. Students in this program will be referred by Solano or Yolo County Social Welfare Departments. This welfare-to-work program will enable AFDC welfare recipients to attain job skills.

TBA - To be announced (TBA) is noted in the Schedule of Classes when the room or time of a course was not known at time of schedule printing. TBA is also used to designate the times for an online course where class meetings are not required.

Tech Prep - A seamless vocational curriculum partnership between participating high schools and Solano Community College which leads to technical proficiency/certification and job placement.

Transcript - A list of all courses taken at a college or university showing the final grade received for each course. Official transcripts bear a seal of the college and signature of a designated college official and are sent directly from one institution to another.

Transfer - Changing from one college to another after meeting the requirements for admission to the second institution.

Transfer Course - A course acceptable for credit at another college.

Travel Study - A course which combines traditional class study with the non-traditional learning experience of travel to an off-campus site relevant to the course subject matter.

Glossary

Units - The measure of college credit given a course, usually on the basis of one unit for each lecture hour per week or for every two to three laboratory hours per week.

UC - The University of California System. The UC web site is www.ucop.edu.

Upper Division - Courses or classes intended for the junior and senior years of college.

Variable Units - The range of units which may be earned in a given course. Most courses do not have variable units.

Waitlist - Allows students to show their interest in a course where the seat capacity has been reached.

Withdrawal - Dropping one or more classes.

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707.864.7000

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2001 North Village Parkway
Vacaville, CA 95688
707.863.7836

VALLEJO CENTER:

545 Columbus Parkway
Vallejo, CA 94591
707.642.8188