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MONEY MATTERS

FUTURE EDUCATORS

STEM

PEOPLE, IDEAS & CULTURE

HELPING OTHERS

BUILDING BRIDGES

SANTA ANA COLLEGE

CATALOG

2020-2021

ADDENDUM





SANTA ANA COLLEGE

2020 – 2021

CATALOG

AND ANNOUNCEMENT OF COURSES

SANTA ANA COLLEGE

1530 West 17th Street • Santa Ana, CA 92706 • 714-564-6000

SCHOOL OF CONTINUING EDUCATION

2900 West Edinger Avenue • Santa Ana, CA 92704 • 714-241-5700 • sac.edu/sce

DIGITAL MEDIA CENTER

1300 South Bristol Street • Santa Ana, CA 92706 • 714-241-5812 • ranchodmc.com

ORANGE COUNTY SHERIFF'S REGIONAL TRAINING ACADEMY

15991 Armstrong Blvd. • Tustin, CA 92782 • 714-566-9200 • sac.edu/ocr

JPTC-CN – Joint Powers Fire Training Center-CENTRAL NET

18301 Gothard St., Huntington Beach

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

2323 North Broadway • Santa Ana, CA 92706-1640 • 714-480-7300 • rsccd.edu

Santa Ana College • Santiago Canyon College

Rancho Santiago Community College District serves residents of Anaheim Hills, Orange, Santa Ana, Villa Park, and a portion of Garden Grove.

ACCREDITED BY THE WESTERN ASSOCIATION OF SCHOOLS AND COLLEGES

Santa Ana College and Santiago Canyon College are accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (10 Commercial Blvd., Suite 204, Novato, CA 94949, 415-506-0234), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

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COLLEGE CREDIT INSTRUCTIONAL CALENDAR 2020 – 2021

FALL SEMESTER 2020

August 17-19	Faculty Projects
August 20-21	Common College Flex Days
August 24	INSTRUCTION BEGINS
September 6	Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
September 7	Labor Day – Holiday
September 11	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
September 25	Last date to file Pass/No Pass (semester-length courses)
October 9	Deadline for Degree/Certificate/Certification Petitions
November 11	Veterans Day – Holiday
November 15	Last day to drop semester-length classes with a "W" grade
Nov. 26 – 28	Thanksgiving – Holiday
December 13	INSTRUCTION ENDS
Dec. 14 – Jan 3	Holiday Break

INTERSESSION 2021

January 4	INSTRUCTION BEGINS
January 11	Last day to file Pass/No Pass
January 18	Martin Luther King's Birthday – Holiday
January 31	INSTRUCTION ENDS

SPRING SEMESTER 2021

February 1-3	Faculty Projects
February 4-5	Common College Flex Days
February 8	INSTRUCTION BEGINS
February 11	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
February 12	Lincoln's Birthday – Holiday
February 15	President's Day – Holiday
February 21	Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
March 12	Last date to file Pass/No Pass (semester-length courses)
March 12	Deadline for Degree/Certificate/Certification Petitions
March 31	Cesar Chavez Day (observed)
April 5-11	Spring Recess
May 9	Last day to drop semester-length classes with "W" grade
May 31	Memorial Day – Holiday
June 3	Commencement – Santiago Canyon College
June 4	Commencement – Santa Ana College
June 6	INSTRUCTION ENDS

SUMMER SESSION 2021

June 14	INSTRUCTION BEGINS
June 25	Deadline for Graduation Petition
July 5	Independence Day – Holiday
August 8	INSTRUCTION ENDS

AUGUST 2020

S	M	T	W	T	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 2020

S	M	T	W	T	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			

OCTOBER 2020

S	M	T	W	T	F	S
					1	2
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER 2020

S	M	T	W	T	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 2020

S	M	T	W	T	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 2021

S	M	T	W	T	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						

FEBRUARY 2021

S	M	T	W	T	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						

MARCH 2021

S	M	T	W	T	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			

APRIL 2021

S	M	T	W	T	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

MAY 2021

S	M	T	W	T	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					

JUNE 2021

S	M	T	W	T	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			

JULY 2021

S	M	T	W	T	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						

AUGUST 2021

S	M	T	W	T	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				

2020-2021 Catalog – ADDENDUM

UNIVERSITY OF CALIFORNIA (UC) TRANSFER COURSE AGREEMENT 2020-2021

This agreement lists courses transferable for unit credit at all UC campuses. This list is valid for courses completed during Fall 2019, Spring 2020 and Summer 2020. Additional courses for 2019-2020 may be approved after the publication date for this catalog.

ACCOUNTING

101, 102

AMERICAN SIGN LANGUAGE

110+, 111+, 116+, 210, 211

*Corresponds to two years of high school study

ANTHROPOLOGY

100, 100H, 101, 101L, 103, 104, 104H, 105, 108, 125

ART

100, 100H, 101, 102, 103, 104, 105, 106, 107±, 108, 109⊙, 110, 111, 121A⊙, 121B⊙, 122⊙, 129⊙, 130, 131, 132A, 132B, 140A, 140B, 141, 143, 150, 151, 152, 153, 154†, 155, 156, 157, 158, 159A, 159B, 162⊙, 164*, 166A⊙, 166B⊙, 184⊙, 185⊙, 190⊙, 192A⊙, 193±, 195±, 196A⊙, 196B⊙, 197A⊙, 197B⊙, 197C⊙, 230, 231, 232, 233, 240, 241, 242, 243, 251, 252, 291⊙, 292⊙

ASIAN AMERICAN STUDIES

101

ASTRONOMY

109, 110, 110H, 140

BIOLOGY

*109, *109H, 109L, 111%, 115±, 129, **139†, 149⊙, 177, 190⊙, 190L⊙, 200, ***211, 212, 214, **229, 239, 249, 259, ***290⊙

* No credit for 109 or 109H if taken after 211

** 139 and 229 combined: maximum credit, one course

*** No credit for 211 if taken after 290

BLACK STUDIES

101

BUSINESS

100, *101, *105, 130⊙, **150

* Maximum credit one course for BUS 101, BUS 105, and LAW 100 combined

** No credit for Business 150 if taken after Computer Science 105

CHEMISTRY

109, 115, *119, *209, 210±, 219, 219H, 229, 249, 259

*109, 119, and 209 combined, maximum credit, one course

No credit for 109, 119, or 209 if taken after 219 or 219H

CHICANO STUDIES

101

CHILD DEVELOPMENT

*107, 110, 116A⊙, 120A⊙, 221⊙

* 107 and PSYC 157 combined: maximum credit, one course

CHINESE

* 101, 102

* Corresponds to two years of high school study

COMMUNICATION STUDIES

101, 101H, 102, 102H♦, 103, 103H, 140, 145, 152, 158#, 206, 206H

COMMUNICATIONS AND MEDIA STUDIES

103c, 105 (formerly TELV), 105H (formerly TELV), 110c, 111*

COMPUTER SCIENCE

100, 105, 112, 113*, 114*, 120†, 121, 129, 131, 140⊙, 170*, 205, 213

COUNSELING – courses completed prior to Fall 2016

107#, 116±, 128, +144

+Philosophy 111 and Counseling 144 combined: maximum credit, one course.

COUNSELING – courses completed Fall 2016 or later

*100, *103, *104, *106, *107, *110, *116, *124, 128, +144

*100, 103, 104, 106, 107, 110, 116, 124, and KNPR 195 combined maximum credit 3 units.

+ Philosophy 111 and Counseling 144 combined: maximum credit, one course.

CRIMINAL JUSTICE

101, 101H⊙, 103, 103H⊙, 109, 109H⊙

DANCE

100, 100H, 102, 105, 106A, 106B, 107, 108A, 108B, ~109A, ~109B%, 109C%, 110, 111, 112, 113A, 113B, 117, 118, 119A, 119B, 120A⊙, 120B⊙, ~122, 123, 124, 130, 140, 201A, 201B, 202A, 202B, 204A, 204B, 204C⊙, 204D⊙, 205, 205B⊙, 205C⊙, 205D⊙, 206A, 206B, 209, 210, 213, 214, 219A, 219B, 220, 221, 232, 240A, 240B, 240C⊙, 240D⊙, 250A%, 250B%, 251%, 260%, 261%, 262%, 263%, ~270, 290⊙, 291⊙, 296, 297, ~298

~ any or all of these PE Activity courses combined, maximum credit 4 units

DIGITAL MEDIA

103, 104, 110⊙, 140±, 142, 150, 152±, 193±, 255±, 256♦, 257♦, 265♦

EARTH SCIENCE

* 110, *110H, **115±, 150, 150H

* 110 combined with 110H, Geography 101 or Geology 101, maximum credit, one course

** No credit for 115 if taken after 110, Geography 101 or Geology 101

ECONOMICS

120, 121

EDUCATION

100 (formerly 101^), 120A*, 210

ENGINEERING

100A (formerly 148), 118⊙, 119⊙, 122, 124, 125, 165c, 183, 195⊙, 205*, 228, 235, 240†, 250, 250L, 281

ENGLISH

101, 101H, 102, 102H, 103, 103H, 104, 104H, 213 (formerly 211), 220, 231, 232, 233A, 233B, 233C, 241, 242, 243, 245, 246, 270⊙, 271, 272, 278

ENGLISH FOR MULTILINGUAL STUDENTS

*110, *112

*Any or all of these courses combined, maximum credit, 8 units

ENVIRONMENTAL STUDIES

140, 200, 259

ETHNIC STUDIES

101, 101H, 102, 102H

FASHION DESIGN MERCHANDISING

104, 136⊙

FRENCH

*101, 102, 201, 201H, 202, 202H, 211^, 214

*Corresponds to two years of high school study

GEOGRAPHY

100, 100H, *101, 101L, 102, 130⊙, 140⊙, 155⊙

*101 combined with Earth Science 110, 110H, Geography 101, maximum credit, one course

GEOLOGY

*101, 101L, 140, 150, 150H, 201

* 101 combined with Earth Science 110, 110H, Geography 101, maximum credit, one course

HISTORY

101, 101H, 102, 102H, 105, 118, 120, 120H, 121, 121H, 123, 124, 124H, 125, 127, 133, 146, 150, 151, 153, 163±, 181

INTERDISCIPLINARY STUDIES

117H, 121c, 155, 200

UC credit not granted for the course taken prior these dates:

+	#	^	†	❖	▲	†	¢	★	∅	%	◆	⊙	◇	±	⊗	✱	◆
Fall 2001	Fall 2002	Fall 2003	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020

Note: Duplicate credit will not be awarded for both the honors and regular versions of a course. Credit will only be awarded to the first course completed with a grade of "C" or better.

ITALIAN

*120, 121♦

* Corresponds to two years of high school study

JAPANESE

*101, 102

* Corresponds to two years of high school study

KINESIOLOGY

KNAC ~107A, ~107B±, ~107C⊙, ~123, ~140A, ~150A, ~155A, ~160A, ~169A, ~169B±, ~170A, ~200A, ~200B, ~200C, ~211A, ~211B, ~220A, ~220B, ~220C, ~226A, 230A*, ~260A, ~260B, ~260C⊙, ~265A, ~265B, ~265C⊙, ~270A+, ~280♦, ~290A, ~290B;

KNAD ~201A, ~202A, ~202B, ~205A, ~208A, ~208B, ~211A, ~211B;

KNAF ~140A, 143A, 144A, ~146A, ~146B, ~150A, ~156A, ~156B, ~157A+;

KNAQ ~201A, ~201B;

KNFI ~112A+, ~112B+, ~112C+, ~114A⊙, ~114B⊙, ~115A, ~115B, ~115C, ~147A, ~147B;

KNHE **101, **102, **103⊙, **104, ***105, ***106±, ***107;

KNIA ~125, ~128, ~133, ~171, ~201, ~202, ~204, ~206, ~209, ~210, ~211, ~212, ~213, ~216, ~217, ~218, ~219, ~220, ~221, ~223, ~227, ~230±, ~231, ~232, ~235, ~240, ~261, ~262, ~270, ~271, ~281, ~291, ~293±;

KNPR 101⊙, +155, +165, +175, *195♦, +200, 217±;

KNSM 101

~any or all of these PE Activity courses combined, maximum credit 4 units

+any or all of these courses combined, maximum credit 8 units

* CNSL 100, 103, 104, 106, 107, 110, 116, 124, and KNPR 195 combined maximum credit 3 units.

**101, 102, 103, and 104 combined, maximum credit, one course

***105, 106 and 107 combined, maximum credit, one course

LAW

100*, *105±, 121♦

* Maximum credit one course for BUS 101, BUS 105, and LAW 100 combined

LIBRARY TECHNOLOGY

*102

*102 and Library and Information Studies 100 combined, maximum credit, one course

LIBRARY AND INFORMATION STUDIES

*100

*100 and Library Technology 102 combined, maximum credit, one course

MATHEMATICS

105, *140, 141* (Maximum UC credit 4 units), 145, **150, *170, **180, **180H, 185, 204, ***219, ***219H, ***221*, 280, 287†

*140, 141, and 170 combined, maximum credit, 5 semester/7.5 quarter units

**150, 180, and 180H combined, maximum credit, one course

*** 219, 219H, 221 combined maximum credit one course

MUSIC

101, 101H, 102, 102H, 103, 104▲, 105±, 109⊙, 110, 111, 112, *113A, *113B, 114A, 114B, 115A, 115B, 115C, 115D, 121, 122, 123, 124, 135, 136, 137, 140, 141, 145*, 148⊙, 152±, 161, 162, 163, 164A, 164B, 168, 169, 170, 171, 173#, 175, 176, 178, 180A, 180B%, 181, 185, 186, 187, 188, 189, 213, 214, 215A, 216, 217, 241, 245*, 268%, 269±, 271⊙

* No credit for 113AB if taken after 114AB

NUTRITION AND FOOD

115, 115H, 120⊙ (formerly 118)

PHILOSOPHY

106, 106H, 108, 110, 110H, *111, 112, 118, *144

* 111 and Counseling 144 combined, maximum credit, one course

PHOTOGRAPHY

150, 180

PHYSICAL SCIENCE

115, *117, *118

* No credit for 117, 118 if taken after a college course in Chemistry or Physics

PHYSICS

* 109, **210, **211, **217, **227, **237, **279, **289

* No credit for 109 if taken after 217 or 279

** 210, 211, or 217, 227, 237, or 279, 289 combined, maximum credit, one series, deduct credit for duplication of topics

POLITICAL SCIENCE

101, 101H, 200, 200H, 201, 220, 235*

PSYCHOLOGY

100, 100H, 140, *157, 170, 160⊙ (Formerly 180), 200, 210%, 219, 230, 240, 250

* 157 combined with CDEV 107: maximum credit, one course

READING

150⊙

SOCIOLOGY

100, 100H, 112, 140, 140H, 240

SPANISH

*101, *101H, 102, 102H, 195A, 195B, 201, 201H, 202, 202H, 212, 213

* Corresponds to two years of high school study

SPEECH LANGUAGE PATHOLOGY ASSISTANT

119+, 160

THEATER ARTS

100, 105⊙, 110, 111, 113, 114⊙, 118, 120*, 123*, 130*, 131, 132, 133, 135, 136±, 137*, 138*, 140A±, 140B±, 140C±, 140D±, 150, 150A±, 150B±, 151*, 152⊙, 153*, 154*, 155⊙, 156†, 161⊙, 162⊙, 163⊙, 171⊙, 172⊙, 173⊙, 178⊙, 179⊙, 180⊙, 181⊙, 186⊙, 190⊙, 250, 255⊙, 256⊙, 257⊙, 258⊙

VARIABLE TOPICS

These courses are also called “Independent Studies”, “Special Studies”, “Special Topics”, “Field Work”, etc. and are typically numbered 198 or 199 at SAC. Credit for variable topics courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs after transfer and may include recommendations from faculty. **Students are advised to save all materials from their SAC Variable Topics course(s), which are typically numbered 198.** Information about internships may also be presented for review, but credit for internships rarely transfer to UC. No credit for Special Topics courses in Journalism, Photography, Health, Business Administration, Architecture, Criminal Justice (Criminology), or Library Departments due to the credit restrictions in these areas.

VIETNAMESE

*101, 102

*Corresponds to two years of high school study

WOMEN’S STUDIES

101, 102

This list is informational only and is based on the official Santa Ana College 2020-2021 UC Transfer Course Agreement which can be found at assist.org. UC transferable course lists for additional years are also located on ASSIST. For more information consult a Santa Ana College counselor.

UC credit not granted for the course taken prior these dates:

+	#	^	†	❖	▲	†	⊙	★	∅	%	◆	⊙	◆	±	⊙	*	◆
Fall 2001	Fall 2002	Fall 2003	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020

Note: Duplicate credit will not be awarded for both the honors and regular versions of a course. Credit will only be awarded to the first course completed with a grade of “C” or better.

2020-2021 Catalog – ADDENDUM

COLLEGE CREDIT INSTRUCTIONAL PROGRAMS

Programs of study leading to the certificate or the associate degree or certification in specialized vocational areas are alphabetically arranged.

Programs which lead to transfer to universities and four-year colleges do not necessarily reflect the transfer requirements of specific schools. If the student wishes to receive an associate degree in a specific discipline, the requirements as set forth must be met. However, in planning a program for transfer, it should be noted that

ACCOUNTING

Accounting: Certificate of Achievement (*Transcripted*)

Program code: sac.acctn.ca

Program control number: 21748

A certificate in accounting prepares students for entry-level positions and promotional opportunities in accounting, taxation, and administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. Specialized training in accounting and finance principles and practices enables students to maintain accounting records and develop financial reports and make effective use of financial information for analysis and decision-making. Entry-level employment opportunities include positions in accounts receivable/payable, payroll, income tax preparation, cost accounting, and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these areas and the areas of general ledger, financial statement preparation, and financial statement analysis.

Learning Outcome(s)

Upon successful completion of this program, students will be able to:

1. Students will acquire adequate knowledge of accounting to enter into a business environment as an entry level clerk.

Required Core Courses

Units: 14-15

ACCT101	Financial Accounting	4
ACCT102	Managerial Accounting	4
BUS222	Business Writing	3
–OR–		
MGMT122	Business Communications	3
ACCT210	Accounting Information Systems	3
–OR–		
BA188	Microsoft Excel	2
–AND–		
BA189	Advanced Microsoft Excel	2

Select a minimum of 5 units from the following:

ACCT032	Payroll Accounting	1
ACCT035	QuickBooks I	2
ACCT036	QuickBooks II	2
ACCT104	Federal and California Taxes	4
ACCT108	Tax Practices and Procedures	3
ACCT113	Intermediate Income Taxes – Corporations	2
ACCT114	Intermediate Income Taxes - Partnerships and LLCs	2
ACCT124	Computerized Income Tax Preparation	1
ACCT204	Managerial Cost Accounting	3
ACCT205	Intermediate Accounting I	3
ACCT206	Intermediate Accounting II	3
ACCT211	Auditing	3
ACCT212	Accountants' Ethics and Responsibilities	4

Total: 19 - 20

the transfer requirements for both the major and general education vary widely. Hence it is recommended that the student review the catalog of the school of transfer and consult with the counseling staff of Santa Ana College in planning transfer objectives.

Required sequences and frequency of course offerings as well as length of time required to obtain a degree or certificate can be found on the college website at:

sac.edu/academicaffairs/coursesequences.

AUTOMOTIVE TECHNOLOGY

Electric Vehicle Technician: Certificate of Achievement

(*Transcripted*)

Program code: SAC.AUEVT.CA

Program Control Number: 39571

This program focuses on electrical theory, diagnosis, and application with a concentration on electric and hybrid vehicles. The courses in the program are designed to give students experience with the electrical systems and electric propulsion systems found on modern automobiles. Once students complete the program, they may seek employment at new car dealerships, municipality service centers, or with specific electric vehicle manufacturers.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. Apply watts law and ohms law to diagnose an automotive electrical system fault.
2. Explain the operation of alternating and direct current as used in an electric vehicle.
3. Describe the safety procedures and required safety equipment when working with electric and hybrid vehicles.

Required Core Courses

Units: 3 - 4

AUTO 102 or	Auto Essentials	3
–OR–		
AUTO 106	Automotive Maintenance	4
Required Core Courses		
		Units: 17
AUTO 122	Electronics Fundamentals	5
AUTO 124	Electrical Systems	5
AUTO 260	Introduction to Electric Vehicles	4
AUTO 285	Hybrid Vehicles	3

Total: 20-21

Automotive Air Conditioning Service: Certificate of Proficiency (*Untranscripted*)

Program code: SAC.AUACS.CERT

The Automotive Air Conditioning Service Certificate is designed to prepare the student for employment in industry, servicing modern automotive air conditioning systems. Air conditioning theory, refrigerant handling, and practical hands-on experience are emphasized. The student would be prepared for national ASE A7 and EPA 609 certification.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. The student will correctly handle refrigerant including recovery and recharging procedures on automotive air conditioning systems. The student will be able to successfully locate, identify, and describe automotive air conditioning components and concerns.

Required Core Courses

Units: 10

AUTO160	Foundations of Mobile Air Conditioning and Refrigeration	5
AUTO161	Automotive Air Conditioning, Heating and Ventilation Systems	5

Total: 20-21

Automotive Electrical Maintenance: Certificate of Proficiency (*Untranscribed*)**Program code: SAC.AUTEL.CERT**

The Automotive Electrical Maintenance Certificate prepares the student for electrical concerns on modern vehicles. Hands-on use of digital multimeters and wiring diagrams are emphasized. This training assists the student in preparation for national ASE A6 certification.

Required Core Courses		Units: 10
AUTO122	Electronics Fundamentals	5
AUTO124	Electrical Systems	5
		Total: 10

Automotive Engine Maintenance: Certificate of Proficiency (*Untranscribed*)**Program code: SAC.AUTEN.CERT**

The Automotive Engine Maintenance Certificate is designed to prepare the student for employment diagnosing and servicing automotive engines. Practical hands-on experience in engine diagnosis, measurement, teardown, and assembly are emphasized. This training assists the student in preparation for national ASE A1 Engine Repair certification.

Required Core Courses		Units: 9
AUTO172	Engine Diagnosis and Maintenance	4.5
AUTO176	Engine Repair	4.5
		Total: 9

COMPUTER INFORMATION SYSTEMS**IT Desktop and Server Operations: Certificate of Achievement** (*Transcribed*)**Program code: SAC.CMITD.CA**

Program Control Number: 39840

The IT Desktop and Server Operations certificate is designed to prepare students in the technical field of desktop and server management. Technical background in LAN infrastructure, networking, virtualization, operating systems, Microsoft and Linux server & client technologies, email platforms, mobile device management, cloud-based solutions, supporting technology solutions following industry best practices and all relevant standards and practices.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. Describe ethical, professional, and legal challenges that confront an IT professional.
2. Demonstrate knowledge of the fundamental concepts of operating systems, networks, and cloud computing.
3. Design, implement, manage and administer a secured, local area network consisting of desktop clients and servers.

Required Core Courses		Units: 15
CMPR 134	Microsoft Windows Operating System	3
CMPR 138	CompTIA Network+ Guide to Networks	3
CMPR 153	A+ Essentials Hardware	3
CMPR 154	A+ Essentials Software	3
CMPR 247	Windows Server Operating System	3
		Total: 15

IT Network and Security Operations: Certificate of Achievement (*Transcribed*)**Program code: SAC.CMITN.CA**

Program Control Number: 39836

The IT Network and Security Operations certificate is an mid-level certification for network technicians and information security analysts. This certification is designed to test the competency of a mid-level network technician in supporting and configuring TCP/IP clients in terms of network design, cabling, hardware setup, configuration, installation, support, and troubleshooting and best practices in network defense, vulnerability risk assessment, and cybersecurity.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. Describe ethical, professional, and legal challenges that confront an IT professional in network security.
2. Design, implement, manage and administer a secured network environment.
3. Evaluate best practices in networking, information technology management and security to enhance business processes.
4. Develop written documentation and presentations, individually and in collaborative environments, that provide solutions networking and security management challenges.

Required Core Courses		Units: 15
CMPR 138	CompTIA Network+ Guide to Networks	3
CMPR 153	A+ Essentials Hardware	3
CMPR 154	A+ Essentials Software	3
CMPR 175	CompTIA Security+ Guide to Network Security	3
CMPR 247	Windows Server Operating System	3
		Total: 15

IT Support Specialist: Certificate of Achievement (*Transcribed*)**Program code: SAC.CMITS.CA**

Program Control Number: 39839

The IT Support Specialist certificate of achievement is based on the learning objectives from the CompTIA IT Fundamentals (ITF+) and CompTIA A+ certifications. Also, the certificate of achievement includes help desk "soft skills" such as effective communication, analytical and critical thinking, diplomacy, problem solving, leadership, team building, and listening skills. The IT Support Specialist certificate provides the required competencies to be employed in high demand, high wage jobs and careers in information technology.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. Identify features and functions of common operating systems and establishing network connectivity
2. Identifying, using, and connecting hardware components and devices
3. Achieve hands-on experience installing and using help desk issue tracking software.
4. Know how to set up and install common peripheral devices to a laptop/PC or secure a basic wireless network
5. Install and configure laptops and other mobile devices
6. Comprehend notational systems, illustrate the basics of computing and explain the value of data and troubleshooting
7. Troubleshoot PC and mobile device issues including application security support

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		Units: 16-19
CMPR 100	The Computer and Society	3
CMPR 104	Cooperative Work Experience Education -Occupational	1 - 4
CMPR 125	Help Desk Fundamentals	3
CMPR 134	Microsoft Windows Operating System	3
CMPR 153	A+ Essentials Hardware	3
CMPR 154	A+ Essentials Software	3
Total: 16-19		

DIESEL TECHNOLOGY**Heavy Duty Diesel Engine Service: Certificate of Proficiency** *(Untranscripted)***Program code: SAC.DSLDE.CERT**

The Heavy Duty Diesel Engine Service Certificate program prepares the student for employment in industry. The servicing of these modern engines includes training on safety, teardown and assembly procedures, measurement, and diagnosis. Hands-on practical experience is emphasized. This certificate would prepare the student for national ASE T2 certification.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. The student would be able to teardown, inspect and measure heavy duty diesel engine components. The student would be able to correctly describe diagnostic procedures on engine concerns.

Required Core Courses **Units: 8**

DSL 125	Heavy Duty Diesel Engine: Top End Service	4
DSL 126	Heavy Duty Diesel Engine: Bottom End Service	4
Total: 8		

DIGITAL MEDIA**Agency Film Production: Certificate of Achievement** *(Transcripted)***Program code: SAC.TVAFP.CA**

Program Control Number: 38701

This certificate will introduce and develop core single-camera production skills including producing, directing, filming, and editing videos for clients. Students will use the same production process used for narrative and documentary filmmaking, but learn how to do so to meet client business needs for marketing and training. Upon completion of this certificate program, students will be eligible for entry level employment as Production Assistants, Editors, Videographers, Assistant Directors, and Project Managers.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. The core competencies for an Agency Film maker include: Communication Skills: writing, interpersonal, business and organizational; Digital Visual Acumen to visualize, compose, and film a scene; Digital Organizational and Assembly of story-telling images and sounds; Technical Acumen for both digital cameras and editing software. The Student Learning Outcomes include: an ability to communicate with clients and determine a visual and aural product that meets the clients' goals and objectives. Concepting a finished product that will meet the clients' needs and budget and will meaningfully convey the intended message. The student will also be able to operate semi-professional and/or professional digital cameras and be able to compose a shot, film it so that it meets all professional standards for: focus, white balance, composition, color and texture. And, the student will be able to operate professional video software so that he/she can ingest digital footage, arrange files on a timeline to tell a meaningful story, and export the finished product to common digital file for playback.

Required Core Courses

		Units: 21
ART 195	Introduction to Digital Media Arts	3
DM 115A	Single-Camera Production and Editing	3
DM 112	Introduction to Video Editing and Postproduction	3
DM 140	Cinematography	3
DM 120	Beginning Screenwriting for Digital Media	3
DM 215	Advanced Single-Camera/Digital Cinema Production	3
DM 240	Agency Film Production	3
Total: 21		

EDUCATION**After School Program Assistant Certificate of Proficiency** *(Untranscripted)***Program code: SAC.EDUCA.CERT**

Program Control Number:

The After School Program Assistant Certificate is intended to prepare a student in the position requiring practical skills and knowledge to work with K-12 children in an after school care, tutoring, or mentoring program. It will also orient students toward further opportunities in higher education.

Learning Outcome(s):

1. Demonstrate knowledge of the practical skills and requirements to work at an entry-level with children, assisting a teacher, in an after-school care, tutoring, or mentoring program.

Required Core Courses: **Units:**

EDUC 113	Tutoring Reading in Elementary Schools	1
CNSL 114	Careers in Teaching	1
-OR-		
CDEV 114	Careers in Teaching	1
CDEV 107	Child Growth and Development (DS1)	3
EDUC 120A	Development of the School-Age Child	3
-OR-		
CDEV 120A	Development of the School-Age Child (DS5)	3
EDUC 120B	School-Age Child Care and Recreation Activities	3
-OR-		
CDEV 120B	School-Age Child Care and Recreation Activities (DS5)	3
Total: 11		

After School Program Associate Teacher: Certificate of Proficiency *(Untranscripted)***Program code: SAC.EDUCT.CERT**

Program Control Number:

The After School Program Associate Teacher Certificate is intended to provide students with skills necessary to work with K-12 students in an after-school setting, provide tutoring or homework assistance, or assist in academic enrichment programs.

Completion of the required courses for this certificate plus 50 days of field experience (minimum of 3 hours per day) can qualify you for the California Child Development Associate Teacher Permit with a school-age emphasis. Contact Career Technical Education (CTE) or Center for Teacher Education counselors at SAC for additional assistance in planning your School-Age profession.

Learning Outcome(s):

1. Demonstrate the advanced skills necessary to work with students in an after school program setting that includes knowledge of academic support/enrichment and activity programming.

Required Core Courses:

EDUC 113	Tutoring Reading in Elementary Schools	1
CNSL 114	Careers in Teaching	1
–OR–		
CDEV 114	Careers in Teaching	1
CDEV 107	Child Growth and Development (DS1)	3
–OR–		
PSYC 157	Introduction to Child Psychology	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 205	Introduction to Children with Special Needs	3
DNCE 102	Introduction to Dance Forms	3
–OR–		
CMST 102	Public Speaking	3
CDEV 120B	School-Age Child Care and Recreation Activities (DS5)	3
–OR–		
EDUC 120B	School-Age Child Care and Recreation Activities	3

Total: 17**FIRE TECHNOLOGY****Fire Service Core Competencies: Certificate of Proficiency** (*Untranscripted*)**Program code: SAC.FTFS.CERT**

This certificate documents extensive coursework on the part of the recipient in fire and emergency services organization, fire behavior, fire prevention, building construction, and fire protection systems and equipment. Completion of this curriculum provides students with fundamental knowledge of fire department operations, organization and basic fire prevention methods and techniques.

Learning Outcome(s)

Upon successful completion of this program, students will be able to:

1. Define fire department organization, culture, and methods of communication of entry level fire department personnel.
2. Describe fire chemistry and behavior for the purpose of predicting fire dynamics and flame spread characteristics.
3. Demonstrate knowledge of the types of construction. Identify the components and hazards related to each type.
4. Identify components of built-in and portable fire protections systems and alarm and notification devices.
5. Demonstrate knowledge of fire prevention codes and standards, fire safety protection system methods, procedures and building codes, and fire code requirements as they relate to construction for fire protection and fire apparatus access.

Required Core Courses

FTC101	Fire Protection Organization	3
FTC102	Fire Behavior and Combustion	3
FTC104	Fire Prevention	3
FTC105	Building Construction for Fire Protection	3
FTC106	Fire Protection Systems	3

Total: 15**Units: KINESIOLOGY****Kinesiology Degree for Transfer: AA-T****Program code: SAC.KIN.AAT**

Program Control Number: 32096

The proposed Associate in Arts in Kinesiology for Transfer (AA-T in Kinesiology) is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Kinesiology or similar major. Please consult a counselor regarding specific course requirements for your transfer institution. This degree provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Kinesiology major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Kinesiology degree students will be able to articulate understanding of scientific foundations of Kinesiology, distinguish between Kinesiology-related careers, and demonstrate movement skills competence. Students will gain knowledge and movement-based experience which prepares them in pursuit of a bachelor's or master's degree and or professional certification in exercise science, nutrition, health promotion, sports medicine athletic training, physical therapy, and coaching or fitness related fields.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. Students will apply scientific foundations to understanding human movement.
2. Students will discuss the importance of physical activity in daily life and the implications for Kinesiology-related careers.
3. Students will demonstrate competence in 3 areas of physical activity experience.

Required Core Courses (14 units):

KNPR 101	Introduction to Kinesiology	3
BIOL 239	General Human Anatomy	4
BIOL 249	Human Physiology	4

Movement-based Courses (minimum 3 units)**Select a maximum of one (1) course from the Aquatics area:**

Units:	3	
KNAQ 201A	Beginning Swimming	0.5-1
KNAQ 201B	Lap Swimming	0.5-1
KNAC 226A	Beginning Water Polo	0.5-1

Select a maximum of one (1) course from the Combative area:

KNAC 140A	Beginning Karate	0.5-1
KNAC 155A	Beginning Self-Defense	0.5-1
KNAC 169A	Beginning Wrestling	0.5-1
KNAF 156A	Beginning Cardio Kickboxing	0.5-1

Select a maximum of one (1) course from the Dance area:

DNCE 106A	Introduction to Modern Dance	1
DNCE 106B	Introduction to Modern Dance	1
DNCE 108A	Introduction to Ballet	1
DNCE 108B	Introduction to Ballet	1
DNCE 110	Beginning Mexican Folk Dance	1
DNCE 111	Intermediate Mexican Folk Dance	1
DNCE 112	Ethnic Dance	1
DNCE 113A	Flamenco Dance I	1
DNCE 113B	Flamenco Dance II	1
DNCE 117	Introduction to Middle Eastern Dance	1
DNCE 118	Introduction to Caribbean and Latin Dance Styles	1
DNCE 119A	Introduction to Jazz Dance	1

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DNCE 119B	Introduction to Jazz Dance	1
DNCE 120A	Introduction to Hip-Hop Dance	1
DNCE 120B	Intermediate Hip-Hop Dance	1
DNCE 122	Commercial Contemporary Dance	1
DNCE 123	Introduction to Salsa Dance	1
DNCE 124	Intermediate Salsa Dance	1

Select a maximum of one (1) course from the Fitness area:

KNAC 123	Personal Fitness Training	1
KNAC 150A	Beginning Hatha Yoga	0.5-1
KNAC 170A	Beginning Yoga	0.5-1
KNAF 140A	Beginning Walking/Jogging for Fitness	0.5-1
KNAF 143A	Boot Camp Workout	0.5-1
KNAF 144A	Beginning Cross Training	0.5-1
KNAF 146A	Beginning Stability Ball	1
KNAF 146B	Intermediate Stability Ball Training	1
KNAF 156A	Beginning Cardio Kickboxing	0.5-1
KNAF 156B	Intermediate Cardio Kickboxing	0.5-1
KNAF 157A	Beginning Cardio Pump	0.5-1
KNAF 150A	Beginning Stretch, Flex and Tone	0.5-1
KNFI 112A	Beginning Circuit Training	1
KNFI 112B	Intermediate Circuit Training	1
KNFI 114A	Beginning Spinning	0.5-1
KNFI 114B	Intermediate Spinning	0.5-1
KNFI 115A	Beginning Cardiovascular Conditioning	0.5-1
KNFI 115B	Intermediate Cardiovascular Conditioning	0.5-1
KNFI 147A	Beginning Weight Training	0.5-1
KNFI 147B	Intermediate Weight Training	0.5-1
DNCE 109A	Pilates Mat I	1
DNCE 109B	Pilates Mat II	1

Select a maximum of one (1) course from the Individual Sports area:

KNAC 107A	Beginning Badminton	0.5-1
KNAC 160A	Beginning Tennis	0.5-1

Select a maximum of one (1) course from the Team Sports area:

KNAC 200A	Beginning Intramural-Basketball	0.5-1
KNAC 211A	Beginning Baseball	1
KNAC 211B	Intermediate Baseball	1
KNAC 220A	Beginning Basketball	1
KNAC 220B	Intermediate Basketball	1
KNAC 260A	Beginning Soccer	0.5-1
KNAC 260B	Intermediate Soccer	0.5-1
KNAC 265A	Beginning Indoor Soccer	0.5-1
KNAC 265B	Intermediate Indoor Soccer	0.5-1
KNAC 270A	Beginning Softball	1
KNAC 290A	Beginning Volleyball	1
KNAC 290B	Intermediate Volleyball	1

List A: Select two courses

MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4
CHEM 210	General, Organic and Biochemistry	5
–OR–		
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5

Units: 7-9

PHYS 279	College Physics I	4
–OR–		
PHYS 210	Principles of Physics I	4
–OR–		
PHYS 217	Engineering Physics I	4
KNHE 106	Cardiopulmonary Resuscitation and First Aid	3

Total: 21-23**LAW****Law, Public Policy and Society for Transfer Degree: AA-T****Program code: SAC.LAWPS.AAT**

Program Control Number: 39987

This Associate in Arts in Law, Public Policy and Society for Transfer Degree (AA-T) prepares students to transfer to a four-year institution leading to a baccalaureate degree in a variety of majors. This interdisciplinary degree highlights coursework that is appropriate for a student considering law school as it emphasizes the development of various skills, introduces students to the legal field, and prepares students for further study in a variety of majors. Students who opt to pursue this course of study are encouraged to engage in further exploration of one or more specific majors as they select electives for degree completion.

Please consult a counselor regarding specific course requirements for your transfer institution. This degree is designed to provide a clear pathway to a CSU and guarantee admissions to a CSU. Although, students are guaranteed admissions, it is not to any particular campus or program in the CSU system. Students will be encouraged to meet with a counselor for specific university major preparation at the college of their choice in order to facilitate a seamless transition. This coursework will satisfy the lower division Law, Public Policy and Society requirements at some of the CSU campuses. See page 24 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.

Learning Outcome(s):

Upon successful completion of this program, students will be able to:

1. Analyze social science concepts and theories
2. Evaluate diverse viewpoints related to the human experience
3. Produce evidence-based arguments

Required Core Courses**Units: 26-27.5**

Core (a single course may only be used to meet one core requirement)

LAW 100	Introduction to Legal Studies	3
PHIL 108	Ethics	3
CMST 102	Public Speaking	3
–OR–		
CMST 140	Argumentation and Debate	3
–OR–		
CMST 145	Group Dynamics	3
ENGL 101	Freshman Composition	4
–OR–		
ENGL 101H	Honors Freshman Composition	4
ENGL 103	Critical Thinking and Writing	4
–OR–		
ENGL 103H		
–OR–		
	Honors Critical Thinking and Writing	4
ENGL 102	Literature and Composition	4

–OR–			Criminal Justice	
ENGL 102H	Honors Literature and Composition	4	CJ 101	Introduction to Criminal Justice 3
–OR–			CJ 101H	Honors Introduction to Criminal Justice 3
PHIL 111	Introductory Logic	4	CJ 102	Introduction to Corrections 3
–OR–			CJ 103	Concepts of Criminal Law 3
CMST 140	Argumentation and Debate	3	CJ 103H	Honors Concepts of Criminal Law 3
MATH 219	Statistics and Probability	4	CJ 105	Legal Aspects of Evidence 3
–OR–			PARA 107	Principles and Procedures in the Criminal Justice System 3
MATH 219H	Honors Statistics and Probability	4	CJ 109	Community Interaction 3
–OR–			CJ 107	Principles and Procedures in the Criminal Justice System 3
PSYC 210	Statistics for the Behavioral Sciences	4	CJ 109H	Honors Community Interaction 3
–OR–			CJ 220	Juvenile Delinquency and Control 3
MATH 221	Statistics and Probability with Support	4.5	Economics	
HIST 120	The United States to 1865	3	ECON 120	Principles/Macro 3
–OR–			ECON 121	Principles/Micro 3
HIST 121	The United States since 1865	3	College Success	
–OR–			CNSL 116	Career/Life Planning and Personal Exploration 3
HIST 121H	Honors The United States since 1865	3	Internship/Fieldwork for three units.-	If a student chooses one of these courses, they must complete a single course
POLT 101	American Government and Politics	3	LAW 299	Cooperative Work Experience Education
–OR–				- Occupational 1 - 4
POLT 101H	Honors American Government and Politics	3	PARA 105	Cooperative Work Experience Education
				- Occupational 1 - 4
List A. Select two courses (minimum of 6 units) from two areas listed below. Note - courses must not have been used above.)		Units: 6	PARA 299	Cooperative Work Experience Education 1 - 4
Business			Total: 32 - 33	
BUS 105	Legal Environment of Business	3	MUSIC	
BUS 101	Business Law	3	Music for Transfer Degree (AA-T)	
LAW 105	The Legal Environment of Business	3	Program code: SAC.MUS.AAT	
Political Science			Program control number: 32050	
POLT 200	American Political Thought	3	The Associate in Arts in Music for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in music, and then into careers in public and private teaching, professional performance, church music, music therapy, composition, arranging and orchestration. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, although does not guarantee admission to a specific campus or major. See page 29 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AA-S) degrees. Upon completion of the AA-T in Music, students will be able to demonstrate an understanding of music theory, harmony, and musicianship at the final level of a traditional lower division music sequence. Through public performance, students will demonstrate proficiency on their primary instrument (or voice) that will allow them to perform accurately and musically within a large ensemble and in a solo setting. Upon application to music programs at four year institutions, students will need to pass an audition for acceptance as well as pass skills tests for placement into music theory, musicianship and piano classes.	
POLT 200H	Honors American Political Thought	3	Note: Although this Transfer Curriculum may provide sufficient preparation for some general Bachelor of Arts programs in Music, it is recommended that students supplement these degree requirements with four semesters of piano (MUS 161, 162, 163, 164), one music appreciation class (MUS 101), and one technology class (MUS 142 or MUS 152) if they intend to transfer into Bachelor of Music programs in Performance, History and Literature, Music Education, or Composition. Please consult a SAC counselor for course requirements for particular four-year institutions.	
POLT 201	Introduction to Comparative Politics	3		
POLT 220	International Politics	3		
Public Policy				
SOC 140	Social Problems	3		
SOC 140H	Honors Analysis of Social Trends and Problems	3		
ETHN 101	Introduction to Ethnic Studies	3		
ETHN 101H	Honors Introduction to Ethnic Studies	3		
Diversity				
ANTH 100	Introduction to Cultural Anthropology	3		
ANTH 100H	Honors Introduction to Cultural Anthropology	3		
CMST 103	Introduction to Intercultural Communication	3		
CMST 103H	Honors Introduction to Intercultural Communication	3		
GEOG 102	Cultural Geography	3		
ASIA 101	Introduction to Asian American Studies	3		
BLST 101	Introduction to African American Studies	3		
CHST 101	Introduction to Chicana/o Studies	3		
ETHN 101	Introduction to Ethnic Studies	3		
ETHN 101H	Honors Introduction to Ethnic Studies	3		
ETHN 102	The Borderlands: Cultural Context and Intercultural Relations	3		
ETHN 102H	Honors the Borderlands: Cultural Context and Intercultural Relations	3		

Learning Outcome (s)

Upon successful completion of this program, students will be able to:

1. Display competency and artistry, through experience, in the creation and presentation of public performances of music.
2. Perform proficiently (at the sophomore level) on their primary instrument in a 20-minute public recital. They will pass placement tests on their primary instrument, and be accepted at Cal State, UC, or other four-year institutions.
3. Demonstrate an understanding of music theory, piano, harmony and musicianship at the final level of a traditional lower division music sequence. They will pass placement tests in the areas of music theory and musicianship and be placed at the junior level upon transfer to the Cal State, UC, or other four-year institutions.
4. Demonstrate, through public performance, a proficiency, at the sophomore level, on their primary instrument that allows them to perform, accurately and musically, within a large ensemble.
5. Demonstrate proficiency performing in a vocal, or instrumental ensemble, to be able to continue their involvement in music, in a performance ensemble, within the greater community.

Required Core Courses:**Units: 21-22**

MUS111	Basic Music Theory and Musicianship I	4
MUS112	Music Theory and Musicianship II	4
MUS114A	Musicianship	1
MUS114B	Musicianship	1

Music 114B is strongly recommended but not required.

MUS115A	Applied Music (Private Instruction)	1.5
MUS115B	Applied Music (Private Instruction)	1.5
MUS115C	Applied Music (Private Instruction)	1.5
MUS115D	Applied Music (Private Instruction)	1.5
MUS214	Theory 4	3
MUS213	Theory 3	3

Ensembles, 1 unit required for each of 4 semesters*

*The ensemble course units may be chosen from the following list (take one ensemble four times or select different ensembles to meet this requirement):

Credit Hours: (4 Required)

MUS135	Concert Chorale	1
-OR-		
MUS137	Chamber Choir	1
-OR-		
MUS171	Concert Band	1
-OR-		
MUS175	Jazz Ensemble	1
-OR-		
MUS181	Chamber Orchestra	1
-OR-		
MUS271	Symphonic Band	1

Total: 25 - 26

NUTRITION & FOOD**Nutrition for Transfer Degree: AS-T****Program code: SAC.NUT.AST**

Program Control Number: 35983

The Associate in Science in Nutrition and Dietetics (AS-T in Nutrition and Dietetics) prepares students to transfer into the CSU system leading to a baccalaureate degree in Nutrition and Dietetics. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Science in Nutrition and Dietetics (AS-T in Nutrition and Dietetics) degree also provides guaranteed admission to the CSU system, although not to a particular campus or major. [See page 29 for a list of additional requirements for all Associate of Arts for Transfer \(AA-T\) and Associate of Science for Transfer \(AS-T\) degrees.](#) Upon completion of the Associate in Science in Nutrition and Dietetics, students will understand scientific concepts of nutrition related to the function of nutrients in basic life processes, explain current health issues with emphasis on individual needs, and apply food science principles related to ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food.

Learning Outcome(s):

1. Identify components of a healthy diet and lifestyle that lead to optimal health and chronic disease prevention.
2. Analyze an individual's nutritional status and make appropriate dietary recommendations.
3. Identify and analyze credible research on nutrition-related topics.

Required Core Courses:**Units: 15-16**

NUTR 115	Nutrition	3
-OR-		
NUTR 115H	Honors Nutrition	3
BIOL 139	Health Microbiology	4
-OR-		
BIOL 229	General Microbiology	5
CHEM 219	General Chemistry	5
-OR-		
CHEM 219H	Honors General Chemistry	5
PSYC 100	Introduction to Psychology	3
-OR-		
PSYC 100H	Honors Introduction to Psychology	3

List A - Select two courses:

CHEM 229	General Chemistry and Qualitative Analysis	5
CHEM 249	Organic Chemistry I	5
BIOL 239	General Human Anatomy	4
-OR-		
BIOL 249	Human Physiology	4
MATH 219	Statistics and Probability	4
-OR-		
MATH 219H	Honors Statistics and Probability	4
-OR-		
PSYC 210	Statistics for the Behavioral Sciences	4

MATH 219H	Honors Statistics and Probability	4
-OR-		
PSYC 210	Statistics for the Behavioral Sciences	4

List B - Select one course:

NUTR 116	Principles of Food Preparation	3
-OR-		
NUTR 120	Food and Culture	3

Total: 26-29

ANNOUNCEMENT OF COURSES

Each course is designated by a number. A descriptive title and the units allowed for the course follow the course number. Courses numbered 100 and above are university parallel courses and are offered for transfer to colleges and universities. [See page 46](#) Transferability of Courses. Courses numbered 100 and above followed by the letter "H" are university parallel courses for transfer to colleges and universities and are offered as part of the Santa Ana College Honors Program. Students enrolling in these courses must meet the designated prerequisites. Courses numbered less than 100 are not designed for transfer. Since these courses are not ordinarily offered in the universities and four-year colleges, they are

not always applicable to the requirements for the bachelor of arts or bachelor of science degrees; however, courses numbered below 100 are applicable to the associate degree unless preceded by the letter "N". Courses numbered less than 100 preceded by the letter "N" are not applicable to the associate degree and do not count toward graduation but do count toward course load.

Required sequences and frequency of course offerings as well as length of time required to obtain a degree or certificate can be found on the college website at

sac.edu/academicaffairs/coursesequences.

COMMUNICATION STUDIES

CMST 102H

Honors Public Speaking

Unit(s): 3.0 Class Hours: 54.0 Lecture total

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

This course is an enriched approach to public speaking, designed for honors students that emphasizes the process, principles, and major facets of critical thinking with practice through oral presentations. CSU/UC

CRIMINAL JUSTICE

CJ 210

Drug Abuse and Criminal Justice

Unit(s): 3.0 Class Hours: 54 Lecture total.

Study of the recognition, identification, and effects of illegal drugs: opiates, marijuana, hallucinogens, depressants, and stimulants. Emphasis will also be placed on investigation techniques, use of informants, search warrants, and treatment. CSU

CRIMINAL JUSTICE ACADEMIES

CJA 008B

Corrections Supplemental Core Course

Unit(s): 5.0 Class Hours: 90 Lecture, 14 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed for the corrections officer who has completed the Commission on Peace Officers Standards and Training (POST) Basic Academy. It meets the California Standards and Training for Corrections (STC) regulations for entry-level training for personnel who work in adult custodial programs and facilities. Grade: Pass/No Pass Only.

CJA 029D

Homemade Explosive Course

Unit(s): 0.2 Class Hours: 4 Lecture, 4 Laboratory total.

Prerequisite: Criminal Justice Academies 099A or Criminal Justice Academies 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed to educate first responders on the dangers of homemade explosive devices and how to recognize bomb-making components and materials. Grade: Pass/No Pass Only.

CJA 042A

Crisis Intervention Training I

Unit(s): 0.5 Class Hours: 10 Lecture, 6 Laboratory total.

Prerequisite: CJA 099A with a minimum grade of C.

Student will receive specialty instruction in crisis intervention training for experienced peace officers. This course is offered in partnership with the Orange County Sheriff's Department. Grade: Pass/No Pass Only

CJA 042B

Crisis Intervention Training II

Unit(s): 0.3 Class Hours: 3 Lecture, 5 Laboratory total.

Prerequisite: CJA 099A with a minimum grade of C

Student will receive intermediate instruction in crisis intervention training for experienced peace officers. This course is offered in partnership with the Orange County Sheriff's Department. Grade: Pass/No Pass Only

CJA 042C

Crisis Intervention Training III

Unit(s): 0.5 Class Hours: 8 Lecture, 8 Laboratory total.

Prerequisite: CJA 099A with a minimum grade of C.

Student will receive advanced instruction in crisis intervention training for experienced peace officers. This course is offered in partnership with the Orange County Sheriff's Department. Grade: Pass/No Pass Only

CJA 042D**Crisis Intervention Training for Dispatchers**

Unit(s): 0.5 Class Hours: 10 Lecture, 6 Laboratory total.

Prerequisite: Commission on Peace Officers' Standards and Training (POST) Public Safety Dispatcher Certificate and/or completion of POST Dispatcher Basic Course or equivalent as determined by the Associate Dean of Criminal Justice Academies.

Student will receive instruction in crisis intervention training techniques designed for dispatchers. This course is offered in partnership with the Orange County Sheriff's Department. Grade: Pass/No Pass Only

DIGITAL MEDIA**DM 256****Intermediate Motion Picture Technical Production**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: DM 255 with a minimum grade of C.

This course provides hands-on practical experience in intermediate technical production, culminating in a fully produced film screened to the public. The final movie presentation becomes the basis for creating a production reel. Prior enrollment in DM 255 is recommended. CSU/UC

DM 257**Advanced Motion Picture Technical Production**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: DM 256 with a minimum grade of C.

This course provides hands-on practical experience in advanced technical production, culminating in a fully produced film, screened to the public. The final movie presentation becomes the basis for creating a production reel. CSU/UC

DM 265**Documentary Film Production**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: DM 115A; DM 112; DM 140 with a minimum grade of C.

This is a capstone course where students will build upon skills and concepts developed in previous camera, editing, and cinematography courses. Students will learn to produce and direct short-form documentaries. CSU/UC

ENTREPRENEURSHIP**ENTR 120****Introduction to Working As a Freelance Independent Contractor**

Unit(s): 1.0 Class Hours: 18 Lecture total.

Learn the freelancer mindset. Learn how to work where you want, when you want, and how you want. Plan your life, your career, and your business. Develop your goals. Understand your personal strengths and skills. Learn how to turn your strengths and skills into viable, sustainable businesses by finding what is unique about you and turning that uniqueness into a personal brand. CSU

ENTR 121**People Skills for the Freelancer**

Unit(s): 1.0 Class Hours: 18 Lecture total.

Learn "people skills" - also known as "soft skills" - communication skills, technological skills, negotiation skills, and presentation skills needed to be successful as a freelance independent contractor. Develop your soft skills and selling skills to compete for business and keep customers happy. CSU

ENTR 122**Opportunities in Freelance Industries And Trades**

Unit(s): 1.0 Class Hours: 18 Lecture total.

Learn how to spot opportunities within a trade and industry. Learn how to network and connect within a trade and industry in order to get business and get mentors. Learn to understand the competitive economic landscape within a trade or industry. Develop opportunities into a viable, sustainable business. Understand how to travel and work in a global economy. CSU

ENTR 123**Marketing to Attract Customers and Grow Your Freelance Business**

Unit(s): 1.0 Class Hours: 18 Lecture total.

Learn marketing as it applies to the freelance independent contractor. Learn market research, business development, branding, pricing, promotion, advertising, social media, sales, distribution and customer service. Understand how to identify and sell to a niche market. Learn how to market on a limited budget. Learn how to market yourself online. CSU

ENTR 124**Survival Finance and Accounting for the Freelancer-Show Me the Money**

Unit(s): 1.0 Class Hours: 18 Lecture total.

Learn personal finance, business finance and basic accounting. Learn financial survival tips for the freelancer. Understand sources of financing, cash and cash flow, Quickbooks, financial statements, pricing and profits, getting paid, accounts receivables and payables, record-keeping, budgeting and taxes. Understand how to open and operate your business on a limited budget. CSU

ENTR 125**Launch Your Freelance Business**

Unit(s): 1.0 Class Hours: 18 Lecture total.

Learn how to launch a freelance business. Set-up and manage your operations. Learn about office locations, business licenses, insurance, government regulations, lawyers, entity formation, intellectual property, health insurance, work-life balance, leadership, teamwork, management and human resources. Topics include managing yourself, managing others and working with subcontractors. CSU

ENTR 147**Acting for the Non-Actor**

Unit(s): 3.0 Class Hours: 54 Lecture, 18 Laboratory total.

Acting techniques are learned to enhance life and business skills. Intended to help all individuals become more successful professionals in their chosen careers. (Same as Theatre Arts 107). CSU

ENTR 148**The Business of Entertainment**

Unit(s): 3.0 Class Hours: 54 Lecture total.

The study of business issues relating to the entertainment industry with a focus on the formats of film, web, TV, and live performance. This course is designed for individuals desiring a career in entertainment. (Same as Theatre 108). CSU

KINESIOLOGY ADAPTED ACTIVITIES**KNAD 208B****Intermediate Adapted Aerobic Fitness**

Unit(s): 0.5 - 1.0 Class Hours: 27-54 Laboratory total.

Prerequisite: Kinesiology Adapted Activities 208A with a minimum grade of C

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to increase knowledge and skills competence in activities that improve cardiovascular fitness. Various aerobic and stretching exercises are performed to music. Exercise programs are designed to teach students adaptive strategies and intermediate level techniques to meet their individual needs. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

KNAD 211A**Beginning Adapted Aquatics**

Unit(s): 0.5 - 1.0 Class Hours: 27-54 Laboratory total.

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to experience the benefits of aquatic activities. In a group exercise setting, students are taught adaptive strategies and beginning level techniques for cardiovascular, balance, resistance, and core training. No swimming skills required. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

LAW**LAW 121****Legal Ethical Reasoning**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, responsibility, as applied to the Legal Profession. The course will explore the application of the California Rules of Professional Conduct as applied to the legal profession and society in general. CSU/UC



SANTA ANA COLLEGE

School of Continuing Education

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NONCREDIT INSTRUCTIONAL PROGRAMS AND COURSES

Continuing Education courses are listed by subject on the following pages. Course numbers are listed at the beginning of each course title.

Open Entry/Open Exit courses are noted in the course descriptions. Students may enroll at any time in these courses and begin class immediately. Students progress at their own rate and may exit from the class at any time upon satisfactory completion of the required work.

In other courses, class hours refer to the number of hours that the

class is scheduled to meet per week during a term.

All credits listed are high school credits. In traditional courses, students earn credits by satisfactorily completing the course. In open entry/open exit courses, students earn credits by meeting individual competency-based objectives.

Some noncredit programs offer a sequence of courses leading to a certificate. The class schedule should be consulted for current offerings.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL English For Work: Certificate of Competency

Program code: CEC.ESLW.COM

Program control number: 37198

This combination of courses is designed to help students communicate successfully in an English-speaking workplace.

Program Learning Outcome(s)

Upon successful completion of this program, students will be able to: take other related classes in vocational, credit, private programs or other community based organizations.

To obtain this certificate, take TWO courses:

Core Course:

ESL510	ESL: English for Work 1
ESL520	ESL: English for Work 2

Credits: 0

0

0

Total: 0

ESL Enhanced English For Work: Certificate of Competency

Program code: CEC.ESLVH.COM

Program control number: 37238

This combination of courses is designed to help students communicate successfully in an English-speaking workplace and includes the development of writing and digital literacy skills.

Program Learning Outcome(s)

Upon successful completion of this program, students will be able to: take other related classes in vocational, credit, private programs or other community based organizations.

To obtain this certificate, take TWO courses:

Core Course:

ESL510	ESL: English for Work 1
ESL520	ESL: English for Work 2

Credits: 0

0

0

Choose 1:

ESL130	Topics in English as a Second Language
ESL398	ESL Community Learning Center
ESL488	Basic Writing

0

0

0

Total: 0