



SANTA ANA COLLEGE

2013 • 2014 CATALOG ADDENDUM

www.sac.edu



SAC is the first step to my career.

Vanessa Reconco,
Biology



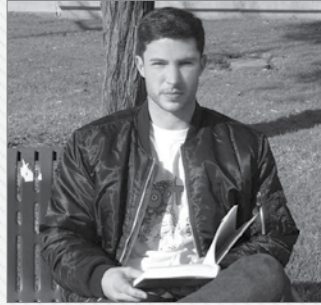
SAC is a new start to life.

Guillermo Lee,
Musical Theatre/Business Marketing



SAC is where I achieve academically & play softball.

Alyssa Yglesias,
Communication



SAC is full of opportunities.

Andrew Brahs,
Fire Technology



SAC is a place where you can grow as an individual.

Damien Benson,
Science/Micro Biology



SAC is a second home.

Angelica Urrutia,
Journalism



SAC is a great community college with many career options.

Nancy Mendez,
English



SAC is a long drive but worth it.

Allen Braun,
Business



SAC is a college that played a pivotal role in my life.

Martin E Lopez,
Geography



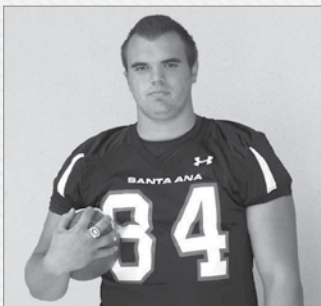
SAC is a wonderful college atmosphere.

Wendy Pasillas,
Criminal Psychology



SAC is the start to my future.

Charlie Herrera,
Music



SAC is a stepping stone to the next level.

Cole Griffin,
Undecided



SAC is my comfort zone.

Jessica Valencia,
Graphic Design



SAC is diverse.

Gonzalo Chavez,
Automotive Technology

SANTA ANA COLLEGE / SANTIAGO CANYON COLLEGE

INSTRUCTIONAL CALENDARS

COLLEGE CREDIT CLASSES INSTRUCTIONAL CALENDAR 2013-2014

FALL SEMESTER 2013

August 19–21	Faculty projects
August 22–23	Common college flex days
August 26	INSTRUCTION BEGINS
September 2	Labor Day– holiday
September 8	Last day to add and to drop full-term classes without “W” grade with enrollment fee refund
September 27	Last day to file Pass/No Pass
October 18	Deadline for Graduation Petition
November 11	Veterans’ Day – holiday
November 17	Last day to drop semester-length classes with a “W” grade
November 28–30	Thanksgiving – holiday
December 15	INSTRUCTION ENDS
December 16–January 5	Holiday break

INTERSESSION 2014

January 6	INSTRUCTION BEGINS
January 10	Last day to add and to drop intersession classes without “W” grade with enrollment fee refund
January 13	Last day to file Pass/No Pass
January 20	King’s Birthday – holiday
January 24	Last day to drop intersession classes with “W” grade
February 2	INSTRUCTION ENDS

SPRING SEMESTER 2014

February 3–5	Faculty projects
February 6–7	Common college flex days
February 10	INSTRUCTION BEGINS
February 14	Lincoln’s Birthday – holiday
February 17	President’s day – holiday
February 23	Last day to add and to drop full-term classes without “W” grade with enrollment fee refund
March 9	Last day to file Pass/No Pass
March 21	Deadline for Graduation Petition
March 28	Cesar Chavez Day
April 7–12	Spring recess
May 11	Last day to drop semester-length classes with “W” grade
May 26	Memorial Day – holiday
June 5	Commencement – Santa Ana College
June 6	Commencement – Santiago Canyon College
June 8	INSTRUCTION ENDS

SUMMER SESSION 2014

SUBJECT TO CANCELLATION

June 16	INSTRUCTION BEGINS
June 20	Deadline for Graduation Petition
July 4	Independence Day – holiday
August 10	INSTRUCTION ENDS

JUNE • 2013

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SANTA ANA
COLLEGE

2013 • 2014

CATALOG

ADDENDUM

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SANTA ANA COLLEGE

1530 West 17th Street • Santa Ana, CA 92706-3398
714-564-6000

CENTENNIAL EDUCATION CENTER

2900 West Edinger Avenue • Santa Ana, CA 92704-3902
714-241-5700

DIGITAL MEDIA CENTER

1300 South Bristol Street • Santa Ana, CA 92706-3424
714-241-5812

SANTA ANA COLLEGE - ORANGE COUNTY SHERIFF'S REGIONAL TRAINING ACADEMY

15991 Armstrong Blvd. • Tustin, CA 92782
714-566-9200

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

2323 North Broadway • Santa Ana, CA 92706-1640
714-480-7300 • www.rscdd.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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CREDITS

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SANTA ANA COLLEGE PHILOSOPHY AND MISSION RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTA ANA COLLEGE MISSION STATEMENT

The mission of Santa Ana College is to be a leader and partner in meeting the intellectual, cultural, technological and workforce development needs of our diverse community. Santa Ana College provides access and equity in a dynamic learning environment that prepares students for transfer, careers and lifelong intellectual pursuits in a global community.

ACCREDITATION

Santa Ana College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, an institutional body recognized by the Council for Higher Education Accreditation, the U.S. Department of Education, and the Veterans Administration. Santa Ana College is also approved by the California Board of Registered Nursing and accredited by the National League for Nursing Accrediting Commission. The college holds membership in the Community College League of California and the American Association of Community and Junior Colleges. Santa Ana College is also approved by the American Bar Association.

Documents concerning the college's accreditation, licenses and approvals are maintained in the Office of the President of Santa Ana College. Students wishing to examine these documents may do so by contacting the Office of the President.

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

Governed locally by a seven-member board of trustees elected by the citizens of the district, Rancho Santiago Community College District is a part of the California community college system, one of the three segments of public post secondary education in the state.

Rancho Santiago Community College District, located in central Orange County, comprises an area of 193 square miles with a population of approximately 700,000. The district includes all of the Orange and Santa Ana Unified School Districts and a portion of the Garden Grove Unified School District. The district boundaries extend from the eastern portion of the city of Garden Grove and around the perimeters of Santa Ana, Orange, Villa Park, and Anaheim Hills, east to the Riverside County line.

SANTA ANA COLLEGE & SANTIAGO CANYON COLLEGE

Santa Ana College opened in 1915 as an upward extension of Santa Ana High School. Of California's 109 public community colleges, it is the fourth oldest. Located first on the campus of Santa Ana High School, it moved to downtown Santa Ana, and then to its present location in 1947. On the other hand, Santiago Canyon College is among the newest community colleges in California. While the Rancho Santiago Community College District was formed to include the cities of Orange, Villa Park and Anaheim Hills in 1971, Santiago Canyon College (formerly Orange Campus) has offered comprehensive programs for students since 1985. It became an independent college July 1, 1997.

Enrollment in district programs in the Fall 2012, totaled 59,319 with 41,854 in college credit courses and 17,465 in classes for Continuing Education students. The Community Services Program serves another 2,721 residents who enroll in non-credit, fee-supported classes. Approximately 3,100 credit classes are offered by the two colleges each semester, leading to Associates of Arts and Sciences degrees in more than 150 transfer and employment majors, as well as certificates of completion in 75 occupational programs. Metropolitan area television stations also deliver classes through the Community College Television Consortium. In addition, Continuing Education is offered in a variety of non-credit and high school credit courses in over 1000 classes.



CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS AT SANTA ANA COLLEGE (SAC)

AA-T = Associate in Arts for Transfer* AS-T = Associate in Science for Transfer*
 D = AA/AS Degree* CA = Certificate of Achievement* CP = Certificate of Proficiency

PROGRAM	PROGRAM
** Accounting D CA CP	** Human Development AS-T D CA
American Sign Language CA	** International Business D CA
Anthropology D	** Kinesiology AA-T D CA
** Art AA-T D CA CP	Liberal Arts D
** Automotive Technology D CA	** Library Technology D CA
Biological Science D	** Management D CA CP
Black Studies D	** Manufacturing Technology D CA CP
** Business AS-T D	** Marketing D CP
** Business Applications and Technology D CA CP	** Mathematics AS-T D
Chemistry D	** Medical Assistant D CA
Chicano Studies D	Modern Languages D
** Communication Studies AA-T D	** Music AA-T D CP
** Communications and Media Studies AA-T D CA	Nursing D
Community Social Services D	** Nutrition and Dietetics D CA
** Computer Information Systems D CA CP	Occupational Therapy Assistant D
** Computer Science D CA	** Paralegal D CA
** Criminal Justice D CA CP	** Pharmacy Technology D CA CP
** Dance D CA	Philosophy D
** Diesel Technology D CA CP	** Photography D CA
Earth Science D	Physics D
Economics D	** Political Science AA-T D
** Education AA-T D CA CP	** Psychology AA-T D
** Engineering D CA CP	Science D
English D	Social Science D
** Entrepreneurship D CA	** Sociology AA-T D
Ethnic Studies D	Speech–Language Pathology Assistant D
** Fashion Design D CA	** Television/Video Communications D CA CP
** Fire Technology D CA CP	** Theatre Arts AA-T D CP
Geography D	** Welding Technology D CA
** Geology AS-T D	Women’s Studies D
History D	

* Successful completion of these programs will appear on the transcript.

** See current SAC catalog for additional options under these titles.

Certificate of Proficiency indicated with a CP will not appear on the transcript.



ASSOCIATE DEGREE REQUIREMENTS: 2013-2014

I. Unit and Residency Requirements

60 UNITS, with at least a 2.0 grade point average. At least 12 of the units must be earned at the college. At least 6 of those units must be in courses required for the major unless students are earning an AA-T or AS-T degree. Units earned at a regionally accredited college or university on a pass/no pass basis will be counted toward the degree requirements of the college, to a maximum of 15 units.

II. General Education Requirements

24 semester units of general education which include one course or more as indicated in group requirements A, B, C, D, E, and F. **NOTE:** See Plan A, page 6 for specific course requirements.

Non degree applicable courses may **not** be used for graduation requirements.

Courses from the major may be used to satisfy areas A-F.

Note: The requirements in parts II, IV, and V also may be met by CSU general education certification, IGETC certification, or by submitting a transcript showing completion of a bachelor's degree from a regionally accredited institution. The requirements in parts II, IV, and V may also be met by submitting a transcript showing completion of an associate of Arts or associate of Science degree from a regionally accredited California institution within a ten-year period of finishing major requirements (III) at the College.

III. Major Requirements

Each degree and certificate program specifies courses required for the major (a minimum of 18 units). Students must complete these courses with a grade of C or better. See Instructional Programs Section.

IV. Required Proficiencies

Note: The proficiencies and requirements listed in IV. Required Proficiencies and V. Oral Communication Requirement may also be used to meet General Education Requirements in groups A through F where appropriate. **Courses taken to meet proficiencies must be completed with a grade of C or better.**

A. Reading

1. Satisfactory score on the SAC/SCC Reading Placement Test at the time of initial placement testing, OR
2. Satisfactory score on a Reading Department Test, OR
3. Successful completion of any Reading course at the 100 level or above, OR
4. A "C" grade, or better in 9 units of general education courses for the Associate Degree in Areas A (Natural Sciences) - 3 units; B (Social and Behavioral Sciences) - 3 units each in B1 and B2.

B. Mathematics

1. Completion of Mathematics 078/080/081 or any other 3 unit mathematics course numbered above the level of 078/080/081, OR
2. Score on the SAC/SCC mathematics placement test indicating placement in a mathematics course numbered above the level of 080/081.

V. Oral Communication Requirement

Completion of 3 units with a grade of "C" or better from the following: Communication Studies 101 or 101H (Interpersonal Communication), Communication Studies 102 (Public Speaking), Communication Studies 140 (Argumentation and Debate), Communication Studies 145 (Group Dynamics), Communication Studies 152 (Oral Interpretation).

Petition for Graduation and Catalog Rights:

Petitions for graduation should be filed in the Office of Admissions and Records one semester before the student expects to graduate. Students who maintain continuous enrollment in at least one regular semester or session of a catalog year (fall, intersession, spring, or summer) at Santa Ana College or Santiago Canyon College may elect to meet the associate degree or certificate requirements in the SAC Catalog in effect at the time of first enrollment, or may choose the catalog requirements from any one year of subsequent continuous enrollment. **A student who has an interruption of attendance must use the catalog at the time of readmission or one of subsequent continuous enrollment.** Commencement exercises are held once a year at the end of the spring semester for those students who complete the requirements for graduation during the year or the summer session.

NOTE: Transcripts from all colleges attended must be on file.

See page 7 for Associate Degree for Transfer requirements.



GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

PLAN A: 2013-2014

NOTE: See page 5, for specific requirements for the following:

- IV. A. Reading Proficiency
- B. Mathematics Proficiency
- V. Oral Communication Requirement

Courses taken to meet these proficiencies/requirement must be completed with a grade of "C" or better.

NOTE: A single course may be used to meet only one category requirement (A-F) in Section II. However, a course may be used to meet both a required proficiency (IV) or requirement (V), as well as one of the categories of General Education Courses on Plan A (II). Courses which meet the requirements for Part II of Plan A at Santiago Canyon College will automatically meet the identical requirements for Part II of Plan A at Santa Ana College.

II. Required General Education Courses

A. Natural Sciences (minimum 3 units)

Anthropology 101, 101L
Astronomy 109, 110 or 110H, 140
Biology 109 or 109H/109L, 111, 115, 149, 177, 200, 211, 239, 259
Chemistry 109, 119, 209, 210, 219 or 219H
Earth Science 110 or 110H, 115, 150 or 150H
Environmental Studies 140, 200, 259
Geography 101, 101L
Geology 101, 101L, 140, 150 or 150H, 201
Physical Science 117, 118
Physics 109, 210, 217, 279
Science 200

B. Social and Behavioral Sciences (minimum 6 units)

1. **American Institutions** (minimum 3 units)
History 118, 120 or 120H, 121 or 121H, 122
Political Science 101 or 101H
2. **Social Science Elective** (minimum 3 units)
Anthropology 100 or 100H
Criminal Justice 101
Economics 120, 121
Geography 100 or 100H, 102 or 102H
History 101 or 101H, 102 or 102H
Human Development 107, 110
Political Science 101 or 101H
Psychology 100 or 100H
Sociology 100 or 100H

C. Humanities (minimum 3 units)

Anthropology 104 or 104H
Art 100 or 100H, 101, 102, 105, 110
Communications and Media Studies 103, 111
Dance 100 or 100H, 105
English 104 or 104H
Foreign Language:
Chinese 101, 102
French 101, 102, 201 or 201H, 202 or 202H
Japanese 101, 102
Spanish 101 or 101H, 102 or 102H, 195 A, 195B, 201 or 201H, 202 or 202H
Vietnamese 101, 102
Interdisciplinary Studies 121, 200
Kinesiology, Professional 170
Literature:
Communications and Media Studies 110
English 102 or 102H, 231, 232, 233ABCD, 241, 242, 270, 271, 272
Music 101 or 101H, 102 or 102H, 104, 110, 211
Philosophy 106 or 106H, 108, 112, 118
Sign Language 110, 111, 112, 116
Television/Video Communications 101, 103, 104, 105 or 105H
Theatre Arts 100, 105

D. Cultural Breadth

(Three units required from D1 or D2)

D1. Ethnic Studies/Women's Studies

Anthropology 104 or 104H, 125
Art 103, 104, 106
Asian American Studies 101
Black Studies 101
Chicano Studies 101
Communication Studies 103 or 103H, 206 or 206H
English 104 or 104H
Ethnic Studies 101 or 101H, 102 or 102H
History 123, 124 or 124H, 125, 127, 146, 150, 151, 153, 163, 181
Human Development 221
Kinesiology, Health Education 102
Literature:
English 245, 246, 278
Music 103
Nutrition & Food 118
Political Science 235
Psychology 170
Sign Language 116
Women's Studies 101, 102

D2. International Perspective

Anthropology 100 or 100H
Business 106 or 106H
Criminal Justice 209
Dance 105
English 271, 272
Geography 100 or 100H, 102
Interdisciplinary Studies 117H
Kinesiology, Professional 150
Music 102 or 102H
Philosophy 112
Theatre Arts 105

E. Language and Rationality (minimum 6 units)

1. English Composition (minimum 3 units)

Courses fulfilling the written composition requirement include both expository and argumentative writing. The English composition requirement may be met by completing English 101 or 101H with a grade of "C" or better.

2. Communication and Analytical Thinking (minimum 3 units)

Includes mathematics, logic, statistics, computer languages and programming and related disciplines.
Communication Studies 102, 140, 145
Computer Science 100, 105, 111
Counseling 144
English 102 or 102H, 103 or 103H
Mathematics 078, 080/081, 105, 140, 145, 150, 160, 167, 170, 180 or 180H, 185, 204, 219 or 219H, 280, 287
Philosophy 110 or 110H, 111, 144
Reading 102, 150
Social Science 219 or 219H

F. Lifelong Understanding and Self-Development (minimum 3 units)

NOTE: Take one course from each group. No more than one unit may be counted from F2.

1. Completion of one of the following:

Business 130
Counseling 100, 116, 120, 124, 125, 128
Fashion Design Merchandising 103
Human Development 102, 107
Interdisciplinary Studies 111, 155
Kinesiology, Health Education 101, 102, 104
Kinesiology, Professional 125, 140, 160
Library & Information Studies 100
Mathematics 030
Nutrition & Food 115 or 115H
Philosophy 111
Psychology 140, 230
Sociology 112
Study Skills 109

2. Completion of one of the following:

Dance 102, 201A, 201B, 206A, 206B, 219A, 219B
Kinesiology, Activities 107, 107A, 123, 140, 150, 155, 160, 169, 170, 200, 211, 220A, 220B, 220C, 226, 235, 236, 260, 260A, 260B, 262, 265, 265A, 265B, 290, 292
Kinesiology, Adapted Activities 201, 202, 202A, 202B, 205, 208, 208A, 208B, 211, 211A, 211B
Kinesiology, Aerobic Fitness 140, 143, 144, 146, 146A, 146B, 150, 156, 156A, 156B, 157
Kinesiology, Aquatics 201, 204, 206
Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, 110C, 115A, 115B, 115C, 126A, 126B, 126C, 127A, 127B, 127C, 147A, 147B
Kinesiology, Intercollegiate Athletics 103, 124, 125, 128, 133, 134, 171, 201, 202, 204, 206, 207, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219, 220, 221, 223, 227, 231, 232, 240, 261, 262, 270, 271, 281, 291,
Kinesiology, Professional 155, 165, 175, 200

This requirement (F) is met for Fire Technology (as long as Fire Technology 121 and 121L are taken as part of the program), Nursing, and Occupational Therapy Assistant by completion of the major.

See page 7 for Associate Degree for Transfer general education information. Plan A is not applicable to Associate Degrees for Transfer.



Associate Degree for TransferSM

REQUIREMENTS FOR THE ASSOCIATE IN ARTS FOR TRANSFER (AA-T) OR ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

Santa Ana College currently offers numerous Associate Degrees for Transfer. To find out which CSU campuses accept each degree, please meet with a SAC counselor or go to www.adegreewithaguarantee.com/Degrees. An AA-T or AS-T 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.

For SAC majors offering an AA-T or AS-T degree students may choose to earn the AA-T or AS-T (option 2) OR an alternate degree(s) for the major (option 1), but not both. Exceptions to this can be made and will be considered for students submitting a

Petition for Exception to Academic Regulation.

Requirements

Student completion requirements for the associate degree for transfer:

1. 60 semester or 90 quarter CSU transferable units
2. the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern
3. a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district
4. obtainment of a minimum grade point average (GPA) of 2.0
5. earn a grade of C or better in all courses required for the major or area of emphasis

Santa Ana College currently offers the following Associate Degrees for Transfer:

Art History
Business Administration
Communication Studies
Early Childhood Education
Elementary Teacher Education
Geology
Journalism
Kinesiology
Mathematics
Music
Political Science
Psychology
Sociology
Theatre Arts

See the Instructional Programs Section of this catalog for major requirements. Additional degrees were pending approval from the California Community College Chancellor's Office at the time of catalog addendum publication



CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE)

PLAN B: 2013-2014

NOTE: These requirements apply to all students. Students planning to graduate from one of the 23 campuses of the California State University must complete 48 semester units in general education breadth courses. A student may complete 39 units of general education at either college in the Rancho Santiago Community College District prior to transfer. Nine semester units of general education coursework must be completed at the upper division level after transfer.

CERTIFICATION OF GENERAL EDUCATION

1. Santa Ana College is authorized to certify a maximum of 39 general education units.
2. No more than 30 semester units may be certified for areas B through D combined which are described in the next section.
3. Credit/No Credit grades are accepted for certification in all areas however they are not recommended for transfer credit in basic skill areas. (A. Communication in the English Language and Critical Thinking, A1, A2, and A3; and B. The Physical Universe and Its Life Forms, B4.) In addition, letter grades may be recommended or required for specific courses in a given major. Each CSU campus may also limit the total number of units graded Credit.
4. A single course may not meet more than one general education requirement.
5. Requests for certification should be made to the Office of Admissions and Records during the semester prior to the last term of attendance. Please consult the Class Schedule or Counseling for deadline information.
6. Certification of coursework from other colleges will be granted to students whose last community college of attendance prior to transfer is Santa Ana.
7. Courses taken at other California Community Colleges will be applied to the subject areas in which they were listed by the institution where the course was completed.
8. Courses taken at other regionally accredited private/out of state institutions (which do not maintain a CSU certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information. Courses completed at foreign institutions are not acceptable for certification.

IMPORTANT NOTE: The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet General Education-Breadth requirements will be honored **if they are approved for the academic year in which they are taken. Courses on this list are approved beginning Fall 2013 and are valid through Summer 2014.**

TRANSFER CREDIT

1. Students may transfer up to 70 semester units to the CSU system. Sixty transferable units are needed for junior standing.
2. All courses used for CSU transfer credit must be numbered 100 or above in the Santa Ana College catalog.

A. English Language Communication and Critical Thinking (minimum 9 semester/12 quarter units)

The 9 units selected from this area must include at least one course each from A1, A2, and A3. Each course must be completed with a grade of "C" or better. (C minus is not acceptable.)

A1: Oral Communication

Communication Studies 101 or 101H, 102, 103 or 103H, 140, 145

A2: Written Communication

English 101 or 101H

A3: Critical Thinking

Communication Studies 140

Counseling 144

English 102 or 102H (102 and 102H not accepted in A3 if completed prior to Fall 2011), 103 or 103H

Philosophy 110 or 110H, 111, 144

Reading 150

B. Scientific Inquiry and Quantitative Reasoning

(minimum 9 semester/12 quarter units)

The 9 units selected from this area must include at least one course each from B1, B2, and B4. The 9 units must also include a corresponding lab component. (Lab classes are in **bold**.) Courses in B4 must be completed with a grade of "C" or better. (C minus is not acceptable.)

B1: Physical Science

Astronomy 109, 110 or 110H

Chemistry **109, 115, 119, 209, 210, 219 or 219H**

Earth Science 110 or 110H, **115**, 150 or 150H

Environmental Studies 140

Geography 101

Geology 101, 140, 150 or 150H, **201**

Physical Science **115**, 117

Physics **109, 210, 211, 217, 279**

B2: Life Science

Anthropology 101

Biology 109 or 109H, **109L, 111, 115, 139, 149, 177, 211,**

212, 214, 229, 239, 259

Environmental Studies **259**

B3: Laboratory Activity

Anthropology **101L**

Astronomy **140**

Biology **109L, 111, 115, 139, 149, 211, 212, 214, 229, 239,**

259

Chemistry **109, 115, 119, 209, 210, 219 or 219H**

Earth Science **115**

Environmental Studies **259**

Geography **101L**

Geology **101L, 201**

Physics **109, 210, 211, 217, 279**

Physical Science **115, 118**

B4: Mathematics/Quantitative Reasoning

Courses must be completed with a grade of "C" or better.

Mathematics 105, 140, 145, 150, 160, 167, 170, 180 or

180H, 204, 219 or 219H, 280

Social Science 219 or 219H

C. Arts and Humanities

(minimum 9 semester/12 quarter units)

This area must include one course from C1 and one course from C2.

C1: Arts: Art, Cinema, Dance, Music, Theatre

Art 100 or 100H, 101, 102, 103, 104, 105, 106, 108

Communications and Media Studies 103

Dance 100 or 100H, 102, 105

English 233A, 233B, 233C, 233D

Interdisciplinary Studies 121

Music 101 or 101H, 102 or 102H, 103, 104, 111, 211

Photography 150

Television/Video Communications 103, 104

Theatre Arts 100, 105

C2: Humanities: Literature, Philosophy, Languages Other Than English

Chinese 101, 102

English 102 or 102H, 206, 220, 231, 232, 233A, 233B, 233C,

233D, 241, 242, 243, 245, 246, 270, 271, 272, 278

French 101, 102, 201 or 201H, 202 or 202H

History 101 or 101H, 102 or 102H, 150, 151, 153, 163

Interdisciplinary Studies 200

Japanese 101, 102

Kinesiology, Professional 170

Philosophy 106 or 106H, 108, 112, 118

Sign Language 110, 111, 112, 116

Spanish 101 or 101H, 102 or 102H, 195A, 195B, 201 or

201H, 202 or 202H

Vietnamese 101, 102

D. Social Sciences

(minimum 9 semester/12 quarter units)

The 9 units selected from this area must include courses from at least 2 different subareas.

D1: Anthropology and Archeology

Anthropology 100 or 100H, 103, 104 or 104H, 105, 125

English 104 or 104H

History 105, 125

D2: Economics

Economics 120, 121

D3: Ethnic Studies

Anthropology 125

Asian American Studies 101

Black Studies 101

Chicano Studies 101

Communication Studies 206 or 206H

English 245, 278

Ethnic Studies 101 or 101H, 102 or 102H

History 123, 124 or 124H, 125, 146

Political Science 235

Psychology 170

D4: Gender Studies

Communication Studies 206 or 206H

English 245, 278

History 127, 181

Women's Studies 101, 102

D5: Geography

Geography 100 or 100H, 102

D6: History

Anthropology 105, 125

History 101 or 101H, 102 or 102H, 105, **118, 120 or 120H,**

121 or 121H, 122, 123, 124 or 124H, 125, 127, 133, 146,

150, 151, 153, 163

D7: Interdisciplinary Social or Behavioral Science

Biology 200

Communication Studies 103 or 103H

Communications and Media Studies 111

Computer Science 100

Counseling 150

Environmental Studies 200

Human Development 107, 110

Interdisciplinary Studies 117H, 155

Kinesiology, Professional 150

Science 200

Television/Video Communications 105 or 105H

D8: Political Science, Government, and Legal Institutions

Political Science **101 or 101H**, 200 or 200H, 201, 220, 226,

235

D9: Psychology

Human Development 107

Psychology 100 or 100H, 140, 157, 170, 200, 219, 230, 240, 250

Sociology 240

D10: Sociology and Criminology

Criminal Justice 101

Sociology 100 or 100H, 112, 140 or 140H

NOTE: The CSU graduation requirement in UNITED STATES HISTORY, CONSTITUTION AND AMERICAN IDEALS may be met by completing Political Science 101 or 101H and one U.S. History course from the following: History 118, 120 or 120H, 121 or 121H, 122, 123, 124 or 124H, 127, 146. These courses (in **bold** in D6 above) may also be used to meet 6 of the 9 Area D unit requirements.

E. Lifelong Learning and Self-Development

(minimum 3 semester/4 quarter units)

Three units should be selected from below with no more than one unit from E2. Three units of credit are allowed in E for former military personnel with a DD-214.

E1:

Communication Studies 104

Counseling 100, 116, 120, 124, 125, 128

Human Development 107, 229

Interdisciplinary Studies 155

Kinesiology, Health Education 101, 102, 104

Kinesiology, Professional 125

Nutrition and Food 115 or 115H

Psychology 140, 157, 230

Sociology 112

Study Skills 109

E2:

Kinesiology, Activities 107, 107A, 140, 150, 155, 160, 169,

170, 200, 220A, 220B, 220C, 226, 235, 260, 260A, 260B,

265, 265A, 265B, 290, 292

Kinesiology, Adapted Activities 201, 202, 202A, 202B,

205, 208, 208A, 208B, 211, 211A, 211B

Kinesiology, Aerobic Fitness 140, 143, 144, 146A, 146B, 150,

156, 156A, 156B,

Kinesiology, Aquatics 201, 204, 206

Kinesiology, Fitness 100, 101A, 101B, 101C, 102, 110A,

110B, 110C, 115A, 115B, 115C, 126A, 126B, 126C, 127A,

127B, 127C, 147A, 147B,

Kinesiology, Intercollegiate Athletics 125, 128, 201, 202, 204,

206, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219,

220, 221, 223, 240, 270



INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

PLAN C: 2013-2014

Completion of all the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from Santa Ana College to a campus in either the CALIFORNIA STATE UNIVERSITY or the UNIVERSITY OF CALIFORNIA system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

- It is generally recommended that students complete all the listed requirements for IGETC prior to transferring. Students may obtain partial certification however by completing all but 1-2 courses. Consult a counselor for additional information.
- Complete all courses used for IGETC certification with a minimum grade of C (C minus is not acceptable).** A "credit" is acceptable providing it is equivalent to a grade of C or higher. The catalog must reflect this policy.
- Request certification from the last California community college you attend prior to transfer to CSU or UC. Requests should be made to the Office of Admissions and Records during the semester prior to the last term of attendance. Please consult the class schedule or Counseling for deadline information.
- Prior to requesting certification, have all official transcripts on file from every high school and college you have attended.
- Courses taken at other California community colleges will be applied to the subject areas in which they are listed by the institution where the work was completed.
- Courses taken at other regionally accredited private/out of state institutions (which do not maintain an IGETC certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. Equivalency is determined by Santa Ana College faculty. Petitions are available from Counseling and must be accompanied by the appropriate documentation. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information.
- Courses completed at foreign institutions (without US regional accreditation) are not acceptable except for certification of competence in a language other than English.

IMPORTANT NOTE: The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet IGETC requirements will be honored if they are approved for the academic year in which they are taken. Courses on this list are approved beginning Fall 2013 and are valid through Summer 2014.

AREA 1 - ENGLISH COMMUNICATION

C.S.U.: 3 courses required, one from each group.

U.C.: 2 courses required, one each from Group A and B.

Group A: English Composition

1 course, minimum 3 semester/4-5 quarter units.

English 101** or 101H**

Group B: Critical Thinking-English Composition

1 course, 3 semester/4-5 quarter units.

English 102** or 102H** (102 and 102H not accepted in 1B if completed prior to Fall 2011)

English 103** or 103H**

Philosophy 110** or 110H**

Group C: Oral Communication (CSU ONLY)

1 course, 3 semester/4-5 quarter units.

Communication Studies 102, 103** or 103H**, 140, 145

AREA 2A - MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING

1 course, 3 semester/4-5 quarter units.

Math 105, 140**, 145, 150**, 170**, 180** or 180H**, 185, 219** or 219H**, 280; Social Science 219** or 219H**

AREA 3 - ARTS & HUMANITIES

3 courses, 9 semester/12-15 quarter units, with at least one course from Group A and one course from Group B.

Group A: Arts (minimum 1 course)

Art 100** or 100H**, 101, 102, 103, 104, 105, 106, 108

Communications and Media Studies 103

Dance 100** or 100H**, 102, 105

Interdisciplinary Studies 121

Music 101** or 101H**, 102** or 102H**, 103, 104, 111, 211

Photography 150

Television/Video Communications 103, 104

Theatre Arts 100, 105

Group B: Humanities (minimum 1 course)

Chinese 102

English 102** or 102H**, 206, 220, 231, 232, 233A or 233B or 233C or 233D, 241, 242, 243, 245, 246, 271, 272, 278

French 102, 201** or 201H**, 202** or 202H**

History 101** or 101H**, 102** or 102H**, 150, 151, 153, 163*

Interdisciplinary Studies 200

Japanese 102

Philosophy 106** or 106H**, 108, 112, 118

Sign Language 111, 112, 116

Spanish 102** or 102H**, 195A, 195B, 201** or 201H**, 202** or 202H**

Vietnamese 102

AREA 4 - SOCIAL & BEHAVIORAL SCIENCES

3 courses, 9 semester/12-15 quarter units from at least 2 disciplines or an interdisciplinary sequence.

Anthropology 100** or 100H**, 103, 104** or 104H**, 105, 125

Asian American Studies 101

Biology 200

Black Studies 101

Chicano Studies 101

Communication Studies 206** or 206H**

Communications and Media Studies 111

Criminal Justice 101

Economics 120, 121

English 104** or 104H**

Environmental Studies 200

Ethnic Studies 101** or 101H**, 102** or 102H**

Geography 100** or 100H**, 102**

History 105, 118, 120** or 120H**, 121** or 121H**, 122**, 123, 124** or 124H**, 125, 127, 133, 146, 163*, 181

Human Development 107**

Interdisciplinary Studies 117H, 155

Political Science 101** or 101H**, 200** or 200H**, 201, 220, 235

Psychology 100** or 100H**, 140, 157**, 170, 200, 219, 230, 240, 250

Science 200

Sociology 100** or 100H**, 140** or 140H**, 240

TV/Video Communications 105** or 105H**

Women's Studies 101, 102

AREA 5 - PHYSICAL & BIOLOGICAL SCIENCES

At least 2 courses, 7-9 semester/9-12 quarter units with one Physical Science course and one Biological Science course; at least one must include a corresponding laboratory (Group C)

Group A: Physical Science (1 course)

Astronomy 109, 110** or 110H**

Chemistry 109**, 115, 119**, 209**, 210, 219** or 219H**, 229

Earth Science 110** or 110H**, 115**, 150** or 150H**

Environmental Studies 140

Geography 101**

Geology 101**, 140, 150** or 150H**, 201

Physical Science 115, 117**

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

Group B: Biological Science (1 course)

Anthropology 101

Biology 109** or 109H**, 115, 139**, 177, 211, 212, 214, 229**, 239, 249, 259

Environmental Studies 259

Group C: Laboratory Activity

Anthropology 101L

Astronomy 140

Biology 109L, 115, 139, 211, 212, 214, 229, 239, 249, 259

Chemistry 109, 115, 119, 209, 210, 219 or 219H, 229

Earth Science 115

Environmental Studies 259

Geography 101L

Geology 101L, 201

Physical Science 115, 118

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

AREA 6A - LANGUAGE OTHER THAN ENGLISH (U.C. ONLY)

Satisfactory completion of two years of high school coursework in one language other than English with grades of "C-" or better***;

OR

completion of one of the following: Chinese 101, French 101, Japanese 101, Sign Language 110, Spanish 101** or 101H**, or Vietnamese 101;

OR

satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English;

OR

satisfactory score in examinations of languages other than English as follows:

3 or higher on College Board Advanced Placement Examination, 5 or higher on International Baccalaureate Higher Level Examination; SAT II: Subject Tests (see counselor for required scores); A, B, or C on "O" Level exam; 5, 6, or 7 on "A" Level exam;

OR

satisfactory completion of an achievement test administered by a college in language other than English equivalent to two years of high school language. If an achievement test is not available a SAC faculty member may verify competency.

AMERICAN INSTITUTIONS REQUIREMENT

(Not part of IGETC. May be completed prior to transfer.)

CSU has an American Institutions graduation requirement that is separate from IGETC. Courses used to meet the CSU requirement can usually also be used in Area 3 or 4. (This is at the discretion of each CSU campus.) To meet the CSU requirement, students should take Political Science 101** or 101H** AND one of the following courses: History 118, 120**, 120H**, 121**, 121H**, 122**, 123, 124**, 124H**, 127, 146.

UC requires the completion of a college course or courses with a grade of "C" or better OR a one-year course in high school in U.S. History or a half-year course in U.S. History and a half-year course in American Government with grades of "C" or better (UCLA requires grades of "B"). UCSB requires the completion of a college course. If you are using college coursework to satisfy this requirement, check the appropriate UC catalog to determine which course(s) to take.

* Courses designated with an asterisk may be counted in one area only.

** Indicates that transfer credit may be limited by either UC or CSU or both. Please see page 47 of the Catalog for additional information.

*** High School transcript must be on file in the admissions office. Please consult with a counselor for additional information.



ART DEGREE

Option 1

Art Degree (sac.art.aa)

See 2013-2014 Santa Ana College Catalog

Option 2

Associate in Arts in Art History for Transfer (sac.arth.aat) (New effective Fall 2013)

The Associate in Arts in Art History for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Art History. 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, (admission is not guaranteed to a specific major or campus), along with priority admission consideration to the local CSU, Fullerton, in the Art History major. **See page 7 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Art History students will be able to: recognize, distinguish and categorize major art achievements and their relationship to history and culture, through formal analysis of art works, comparison and contrast of artistic styles, and general assessment of the cultural diversity of human artistic expressions and their meanings around the world in different eras by means of both oral and written assignments such as oral presentations, written essays, and general exams.

Courses	Units
Required Core (9 units)	
Art 101, Survey of Western Art History I: Prehistory through the Middle Ages	3
Art 102, Survey of Western Art History II: Renaissance through the Twentieth Century	3
Art 130, Introduction to Drawing	3
List A: Select One Course (3 units)	
Art 103, African Art History (3) —OR—	3
Art 104, Mexican and Chicano Art History (3) —OR—	
Art 106, Asian Art History (3)	
List B: Select One Course (3 units)	
Art 110, Two-Dimensional Design (3)	3
Art 111, Three-Dimensional Design (3)	
Art 131, Beginning Life Drawing (3)	
Art 151, Ceramics-Introductory Level (3)	
Art 195, Introduction to Digital Media Arts (3)	
Photography 180, Beginning Photography (3)	
List C: select one Course (3 units)	
Any course from List A or B not already used.	
Art 105, History of Modern Art (3)	3
Art 108, Contemporary Art History: Art Since Mid-Century (3)	
History 101, World Civilizations to the 16th Century (3) —OR—	
History 101H, Honors World Civilizations to the 16th Century (3)	
History 102, World Civilizations Since the 16th Century (3) —OR—	
History 102H, Honors World Civilizations Since the 16th Century (3)	
Interdisciplinary Studies 121, Humanities Through the Arts (3)	
Philosophy 112, World Religions (3)	
Total Units	18

BUSINESS DEGREE

Option 1

Business Administration Degree (sac.bus.aa)

See 2013-2014 Santa Ana College Catalog

Option 2

Associate in Science in Business Administration for Transfer (sac.bus.ast) (New effective Fall 2013)

The Associate in Science in Business Administration for Transfer (AS-T) prepares students to move into the CSU system leading to a baccalaureate degree in Business Administration. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AS-T degree also provides guaranteed admission with junior status to the CSU system, although does not guarantee acceptance to a particular campus or major. **See page 7 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Business Administration, students will have a general understanding of business fundamentals, including the areas of accounting, economics, and computer information systems. In addition, they will have an understanding of the legal environment of business, and will have sufficient understanding of mathematical concepts to enable them to successfully pursue a baccalaureate degree. The AS-T degree in Business Administration is also appropriate for students whose vocational plans include careers in business fields such as accounting, computer information systems, finance, management, marketing and other business fields.

Courses	Units
Required Core (17 units)	
Accounting 101, Financial Accounting	4
Accounting 102, Managerial Accounting	4
Economics 120, Principles/Macro	3
Economics 121, Principles/Micro	3
Business 101, Business Law —OR—	3
Business 105, Legal Environment of Business	
List A: Select one of the following courses (4 units)	
Mathematics 145, Finite Mathematics (4)	4
Mathematics 150, Calculus for Biological, Management and Social Sciences (4) —OR—	
Mathematics 180, Analytic Geometry and Calculus (4) —OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus (4)	
Mathematics 219, Statistics and Probability (4) —OR—	
Mathematics 219H, Honors Statistics and Probability (4) —OR—	4
Social Science 219, Statistics and Probability (4) —OR—	
Social Science 219H, Honors Statistics and Probability (4)	
List B: Select two courses from the list below, or from any course from List A that has not already been used. (6-8 units)	
Bus 150, Introduction to Information Systems and Applications (3) —OR—	6-8
Computer Science 100, The Computer and Society (3)	
Bus 100, Fundamentals of Business (3) —OR—	3
Bus 222, Business Writing (3)	
Total Units	27-29



COMMUNICATIONS AND MEDIA STUDIES DEGREE

Option 1(A)

Degree Program A-Communications and Media Studies Emphasis (sac.cmsda.aa)

See 2013-2014 Santa Ana College Catalog

Option 1(B)

Degree Program B-Broadcast Communications and Media Studies Emphasis (sac.cmsdb.aa)

See 2013-2014 Santa Ana College Catalog

Option 2

Associate in Arts in Journalism for Transfer (sac.cmsd.aat) (New effective Fall 2013)

The Associate in Arts in Journalism for Transfer (AA-T Journalism) prepares students to move into the CSU system leading to a baccalaureate degree in Journalism, and then into careers in daily reporting, media editing, writing, Web-based multimedia reporting, visual reporting, photography, print and digital design, public relations, advertising, radio, digital media and television writing and production. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T Journalism degree also provides guaranteed admission with junior status to the CSU system, (admission is not guaranteed to a specific major or campus), along with priority admission consideration to a local CSU. **See page 7 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Journalism, students will be able to define and execute newsgathering strategies, write articles under deadline, edit their own and others' articles for proper spelling, grammar and AP Style, define relevant news content, gather news information weekly, assess legal and ethical media issues at the final level of a traditional lower division Journalism sequence. Through news production, students will demonstrate proficiency in developing effective designs and layouts for story presentation, develop news stories through written, visual, audio, video or other multimedia formats, determine the best format—print, multimedia, visual—for telling basic news stories, and build a portfolio that demonstrates a range of storytelling formats and styles, and navigate content management software used to create online publications.

Courses	Units
Required Core (10 units)	
Communications and Media Studies 121, Introduction to Reporting and Newswriting	3
Communications and Media Studies 123A, News Media Production	4
Television/Video Communications 105, Mass Media and Society (3)	3
—OR—	
Television/Video Communications 105H, Honors Mass Media and Society (3)	
List A: select 1 course from the following: (3-4 units)	
Communications and Media Studies 103, Introduction to Visual Communications (3)	3-4
Communications and Media Studies 123B, Intermediate News Media Production (4)	
Communications and Media Studies 160, Introduction to Photojournalism (3)	
Communications and Media Studies 210, Intermediate Reporting and Newswriting (3)	

List B: select 2 courses from the following: (6-8 units)

- Communications and Media Studies 111, Media, Race and Gender (3)
- Communications and Media Studies 140, Argumentation and Debate
- Communications and Media Studies 298A, Designing for Print and Digital Media (3)
- Counseling 144, Reasoning and Problem Solving (3)
—OR—
Philosophy 144, Reasoning and Problem Solving (3)
—OR—
Reading 150, Critical Reading (3)
- Economics 120, Principles/Macro (3)
—OR—
Economics 121, Principles/Micro (3)
- English 102, Literature and Composition (4)
—OR—
English 102H, Honors Literature and Composition (4) 6-8
—OR—
English 103, Critical Thinking and Writing (4)
—OR—
English 103H, Honors Critical Thinking and Writing (4)
—OR—
Philosophy 110, Critical Thinking (4)
—OR—
Philosophy 110H, Honors Critical Thinking (4)
- Mathematics 219, Statistics and Probability (4)
—OR—
Mathematics 219H, Honors Statistics and Probability (4)
—OR—
Social Science 219, Statistics and Probability (4)
—OR—
Social Science 219H, Honors Statistics and Probability (4)
- Philosophy 111, Introductory Logic (4)
- Photography 180, Beginning Photography (3)
- Political Science 101, Introduction to American Governments (3)
—OR—
Political Science 101H, Honors Introduction to American Governments (3)
- Political Science 201, Introduction to Comparative Politics (3)

Total Units 19-22

GEOLOGY DEGREE

Option 1

Geology Degree (sac.geol.aa)

See 2013-2014 Santa Ana College Catalog

Option 2

Associate in Science in Geology for Transfer (sac.geol.ast) (New effective Fall 2013)

The Associate in Arts in Geology for Transfer (AS-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Geology. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AS-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Geology major. **See page 7 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Geology students will have a foundation necessary for continued training at the upper division level for geology majors. It is a starting point for students who are preparing for careers in education, geoscience research, and government, where scientific and technical skills are in great demand.



Courses	Units
Required Core (26 units)	
Geology 101, Introduction to Geology	3
Geology 101L, Introduction to Geology Laboratory	1
Geology 201, Introduction to Historical Geology	4
Chemistry 219, General Chemistry —OR—	5
Chemistry 219H, Honors General Chemistry	
Chemistry 229, General Chemistry and Qualitative Analysis 5	
Mathematics 180, Analytic Geometry and Calculus —OR—	4
Mathematics 180H, Honors Analytic Geometry and Calculus	
Mathematics 185, Analytic Geometry and Calculus	4
Total Units	26

HUMAN DEVELOPMENT DEGREE

Option 1

Early Childhood Options Degree and Certificate

See 2013-2014 Santa Ana College Catalog

Option 2

Associate in Science in Early Childhood Education for Transfer (sac.ece.ast) (New effective Fall 2013)

The Associate in Science in Early Childhood Education for Transfer (AS-T in Early Childhood Education) prepares students to move into the CSU system leading to a baccalaureate degree in Child Development, Human Development, Early Childhood Education or Child and Adolescent Studies. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AS-T in Early Childhood Education degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Child and Adolescent Development major. **See page 7 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Early Childhood Education, students will have general understanding of the main developmental theories as they pertain to the development, care and education of young children. Additionally, students will have the capacity to evaluate and plan curriculum and environments for children based on observation of their physical, cognitive, emotional, social and creative characteristics.

Courses	Units
Required Core (24.5 units)	
Human Development 107, Child Growth and Development (DS1)	3
Human Development 108A, Observation and Assessment for Early Learning and Development	3
Human Development 110, Child, Family and Community (DS2)	3
Human Development 111A, Principles and Practices of Teaching Young Children	3
Human Development 111B, Introduction to Curriculum for Young Children	3
Human Development 112, Health, Safety and Nutrition for Children	3
Human Development 221, Teaching In A Diverse Society	3
Human Development 298A, Practicum in Early Childhood Programs	3.5
Total Units	24.5

KINESIOLOGY DEGREE

Option 1

Kinesiology Degree (sac.kin.aa)

See 2013-2014 Santa Ana College Catalog

Option 2

Associate in Arts in Kinesiology for Transfer (sac.kin.aat) (New effective Fall 2013)

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 7 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in 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.

Courses	Units
Required Core (14 units)	
Kinesiology Professional 101, Introduction to Kinesiology	3
Biology 239, General Human Anatomy	4
Biology 249, Human Physiology	4

Movement Based Courses: Select a maximum of one (1) course from any three (3) of the following areas for a total of three units.

Area 1 Aquatics

- Kinesiology Aquatics 201, Swimming (1)
- Kinesiology Aquatics 206, Lap Swimming (1)

Area 2 Combatives

- Kinesiology Activities 140, Karate (1)
- Kinesiology Activities 155, Self-Defense (1)

Area 3 Dance

- Dance 110, Beginning Mexican Folk Dance (1)
- Dance 111, Intermediate Mexican Folk Dance (1)

Area 4 Fitness

- Kinesiology Activities 170, Yoga (1)
- Kinesiology Fitness 147A, Beginning Weight Training (1)
- Kinesiology Aerobic Fitness 140, Walking/Jogging for Fitness (1)
- Kinesiology Aerobic Fitness 156, Beginning Cardio Kickboxing (1)
- Kinesiology Aerobic Fitness 157, Cardio Pump (1)

Area 5 Individual Sports

- Kinesiology Activities 107, Beginning Badminton (1)
- Kinesiology Activities 160, Tennis (1)

Area 6 Team Sports

- Kinesiology Activities 220, Beginning Basketball (1)
- Kinesiology Activities 260, Soccer-Beginning/Intermediate (1)
- Kinesiology Activities 290, Volleyball (1)
- Kinesiology Activities 292, Advanced Volleyball-Women (1)

**List A: Select two courses (7.5-9 units)**

1. Mathematics 219, Statistics and Probability (4)	
—OR—	
Mathematics 219H, Honors Statistics and Probability (4)	
—OR—	
Social Science 219, Statistics and Probability (4)	
—OR—	
Social Science 219H, Honors Statistics and Probability (4)	
2. Chemistry 210, General, Organic and Biochemistry (5)	
—OR—	
Chemistry 219, General Chemistry (5)	7.5-9
—OR—	
Chemistry 219H, Honors General Chemistry (5)	
3. Physics 279, College Physics I (4)	
—OR—	
Physics 210, Principles of Physics I (4)	
—OR—	
Physics 217, Engineering Physics I (4)	
4. Kinesiology Health Education 105, First Aid and Personal Safety (1.5)	
—AND—	
Kinesiology Health Education 107 Cardiopulmonary Resuscitation (2)	
Total Units	21.5 - 23

MATHEMATICS DEGREE**Option 1****Mathematics Degree (sac.math.aa)**

See 2013-2014 Santa Ana College Catalog

Option 2**Associate in Science in Mathematics for Transfer (sac.math.ast) (New effective Fall 2013)**

The Associate in Science in Mathematics for Transfer (AS-T in Mathematics) prepares students to move into the CSU system leading to a baccalaureate degree in Mathematics. Employment opportunities are available as mathematicians in government, industry, education, technology, gaming and healthcare. Please consult a counselor regarding specific course requirements for your transfer institution. Successful completion of the AS-T in Mathematics degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Mathematics major. **See page 7 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Mathematics, students will gain a strong foundation in the mathematical field. This knowledge base will be grounded in quantitative and analytical reasoning. Additionally, students will have the capacity to write and communicate with mathematical models and apply appropriate problem solving techniques to real world phenomena.

Courses	Units
Required Core (12 units)	
Mathematics 180, Analytic Geometry and Calculus (4)	
—OR—	
Mathematics 180H, Honors Analytic Geometry and Calculus (4)	4
Mathematics 185, Analytic Geometry and Calculus	4
Mathematics 280, Intermediate Calculus	4

List A: Select one course from the following: (5 units)

Mathematics 287, Introduction to Linear Algebra and Differential Equations (5)	5
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List B: Select one course from the following: (3-4 units)

Computer Science 129, Introduction to Computer Organization (4)	
Computer Science 112, Java Programming (3)	
Computer Science 120, Introduction to Programming (3)	
Computer Science 121, Programming Concepts (3)	3-4
Computer Science 131, Data Structures Concepts (3)	
Computer Science 141, UNIX Operating System (3)	
Computer Science 213, C# Programming (3)	
Physics 217, Engineering Physics I (4)	
Total Units	20-21

MUSIC DEGREE**Option 1****Music Degree (sac.mus.aa)**

See 2013-2014 Santa Ana College Catalog

Option 2**Associate in Arts in Music for Transfer (sac.mus.aat) (New effective Fall 2013)**

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. **See page 7 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. This transfer degree prepares students for this audition and placement test process at California State University Fullerton, California State University Long Beach, and other local four-year institutions.

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 (Music 161, 162, 163, 164), one music history class (Music 101 or Music 211), and one technology class (Music 142 or Music 146) 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.

Courses	Units
Required Core (24 units)	
Music 111, Basic Music Theory and Musicianship I	4
Music 112, Music Theory and Musicianship II	4
Music 114A, Musicianship	1
Music 114B, Musicianship	1
Music 115A, Applied Music (Private Instruction)	1
Music 115B, Applied Music (Private Instruction)	1
Music 115C, Applied Music (Private Instruction)	1
Music 115D, Applied Music (Private Instruction)	1
Music 213, Theory 3	3
Music 214, Theory 4	3
Ensembles, 1 unit required for each of 4 semesters*	4
Total Units	24

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

	Units
Music 135, Concert Chorale	1
Music 137, Chamber Choir	1
Music 171, Concert Band	1
Music 175, Jazz Ensemble	1
Music 181, Chamber Orchestra	1
Music 271, Symphonic Band	1



COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course

bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted

from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can always help students interpret this information.

At the time of catalog addendum publication many more SAC courses were pending C-ID approval. Please consult a counselor for the latest C-ID information.

C-ID	SAC COURSE	C-ID	SAC COURSE
ACCT 110	ACCT 101, Financial Accounting	MATH 900S	MATH 180 + MATH 185, Analytic Geometry and Calculus + Analytic Geometry and Calculus
AJ 110	CJ 101, Introduction to Criminal Justice	MUS 100	Music 101 or 101H, Music Appreciation or Honors Music Appreciation
AJ 120	CJ 103, Concepts of Criminal Law	MUS 120	Music 111, Basic Music Theory and Musicianship I
AJ 122	CJ 107, Principles and Procedures in the Criminal Justice System	MUS 125	Music 111, Basic Music Theory and Musicianship I
AJ 150	CJ 108, Crime Scene Investigation	MUS 130	Music 112, Music Theory and Musicianship II
AJ 200	CJ 102, Introduction to Corrections	MUS 135	Music 112, Music Theory and Musicianship II
AJ 220	CJ 220, Juvenile Delinquency and Control	MUS 140	Music 213, Theory 3
CDEV 100	HUD 107, Child Growth and Development	MUS 145	Music 114A, Musicianship
CDEV 110	HUD 110, Child, Family and Community (DS2)	MUS 150	Music 214, Theory 4
COMM 120	CMST 140, Argumentation and Debate	MUS 155	Music 114B, Musicianship
COMM 130	CMST 101 or CMST 101H, Introduction to Interpersonal Communication or Honors Introduction to Interpersonal Communication	MUS 160	Music 115A, Applied Music (Private Instruction)
COMP 132	CMPR 131, Data Structures Concepts	MUS 160	Music 115B, Applied Music (Private Instruction)
COMP 142	CMPR 129, Introduction to Computer Organization	PHIL 110	PHIL 111, Introductory Logic
ECE 120	HUD 111A, Principles and Practices of Teaching Young Children	PHYS 205	PHYS 217, Engineering Physics I
ECE 200	HUD 108A, Observation and Assessment for Early Learning and Development	PHYS 210	PHYS 227, Engineering Physics II
ECE 210	HUD 298A, Practicum in Early Childhood Programs	SOCI 110	SOC 100 or 100H, Introduction to Sociology or Honors Introduction to Sociology
ECE 220	HUD 112, Health, Safety and Nutrition for Children	SOCI 115	SOC 140 or SOC 140H, Analysis of Social Trends and Problems or Honors Analysis of Social Trends and Problems
ECE 230	HUD 221, Teaching in a Diverse Society	SOCI 130	SOC 112, Relationships, Marriages, and Family Dynamics
ENGL 100	English 101 or 101H, Freshman Composition or Honors Freshman Composition	THTR 111	THEA 100, Introduction to Theatre
ENGL 105	English 103 or 103H, Critical Thinking and Writing or Honors Critical Thinking and Writing	THTR 171	THEA 131, Stagecraft
GEOG 111	GEOG 101L, Physical Geography Laboratory	THTR 173	THEA 133, Stage Lighting
GEOG 120	GEOG 102, Cultural Geography	THTR 175	THEA 132, Stage Makeup
JOUR 100	TELV 105 or TELV 105H, Mass Media and Society or Honors Mass Media and Society	THTR 191	THEA 150 or THEA 152 or THEA 155, Theatre Production or Tour Ensemble or Children's Theatre Ensemble
JOUR 110	CMSD 121, Introduction to Reporting and Newswriting	THTR 192	THEA 135 or THEA 150, Technical Production or Theatre Production
JOUR 130	CMSD 123A, News Media Production		
JOUR 160	CMSD 160, Introduction to Photojournalism		
JOUR 170	CMSD 103, Introduction to Visual Communication		
JOUR 210	CMSD 210, Intermediate Reporting and Newswriting		
KIN 100	KNPR 101, Introduction to Kinesiology		
KIN 101	KNHE 105 + KNHE 107, First Aid and Personal Safety + Cardiopulmonary Resuscitation		



ADDENDUM TO ANNOUNCEMENT OF COURSES

MATHEMATICS (MATH)

Mathematics 078

Math for Engineers, I

Unit(s): 7.0

Class Hours: 144 Lecture total.

Prerequisite: Math 060 or 061 with a grade of C or better; or placement into Math 080 or 081 on the mathematics level 2 placement exam and a course equivalent to Mathematics 060 or 061.

Basic Euclidean geometry combined with a second course in algebra. Topics from Basic Euclidean Geometry include: concepts of lines, planes, triangles, congruence, proofs, inequalities, parallel lines, similarity, areas, and volumes. Topics from Algebra include: systems of equations, inequalities, graphs and functions, radicals, quadratic polynomials, rational expressions, exponential and logarithmic functions, and problem solving.

Mathematics 167

Math for Engineers, II

Unit(s): 7.0

Class Hours: 144 Lecture total.

Prerequisite: Mathematics 078 with a grade of C or better; or, with instructor approval, placement in Mathematics 160 with the Level 3 exam and courses equivalent to Mathematics 070 and 080 or 081.

Trigonometry combined with Pre-Calculus. Topics from Trigonometry include: angles and their measurement, trigonometric functions and their applications, vectors, the use of trigonometric identities, graphing the basic functions and variations using rectangular and polar coordinates, solving trigonometric equations, and complex numbers. Topics from Pre-Calculus include: advanced algebraic topics, the study of rational, trigonometric, exponential and logarithmic functions, analytic geometry, and preparation for Calculus.

ANNOUNCEMENT OF COURSES

ACCOUNTING (ACCT)

Accounting 101 (C-ID ACCT 110)

Financial Accounting

Unit(s): 4.0

Class Hours: 64 Lecture total.

The study of accounting as an information system, examining why it is important, and how it is used by investors and creditors to make decisions. Coverage includes the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the classified financial statements, and statement analysis. It also includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics.

Accounting 102

Managerial Accounting

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Accounting 101.

Study of the use and reporting of accounting data for managerial planning, cost control, and decision making purposes. The course includes broad coverage of concepts, classifications, and behaviors of costs. Topics include cost systems, the analysis and use of cost information, cost-volume-profit analysis, contribution margin, profit planning, standard costs, relevant costs, and capital budgeting.

ART (ART)

Art 101

Survey of Western Art History I: Prehistory Through the Middle Ages

Unit(s): 3.0

Class Hours: 48 Lecture total.

The study of art from Prehistory through Middle Ages. Cultures and Civilizations are studied through visual imagery, lecture, class discussion, reading, research and field trips. Recommended sequence of courses: Art 100, Art 101, Art 102.

Art 102

Survey of Western Art History II: Renaissance Through the Twentieth Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

The study of Western art history from the Renaissance through the 20th century. Art movements and individual painters, sculptors, architects and printmakers will be presented within the context of the social, political and intellectual histories of their respective periods. Required for art majors.

Art 103

African Art History

Unit(s): 3.0

Class Hours: 48 Lecture total.

History and appreciation of the arts of Africa and The Diaspora. Examines the continent of Africa within socio-political, aesthetic and religious cultural contexts and the impact of African art on Western art in Europe and the Americas.

Art 104

Mexican and Chicano Art History

Unit(s): 3.0

Class Hours: 48 Lecture total.

The history and appreciation of Mexican and Chicano art from the pre-Columbian to the present, including the modern murals of Mexico and the United States.

Art 105

History of Modern Art

Unit(s): 3.0

Class Hours: 48 Lecture total.

History of painting, sculpture, architecture, prints and applied arts from the late nineteenth century through the twentieth century. Covers the formal philosophic, spiritual and historical background of art from Post Impressionism to Post Modernism. For general students and art majors.

Art 106

Asian Art History

Unit(s): 3.0

Class Hours: 48 Lecture total.

Historical survey of the visual arts of China, Japan, India and Southeast Asia. Includes relationship of Far Eastern philosophy and culture to artistic achievement. Emphasizes works of art, in terms of style, technique and content.

Art 108

Contemporary Art History: Art Since Mid-Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

A survey course exploring post World War II styles, trends, ideas and innovations in architecture and the visual arts in Europe and North America.

Art 110

Two-Dimensional Design

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Introduction to the principles and elements of two-dimensional design. Provides instruction in the fundamentals of visual communication including color theory, composition, and expression. Application of concepts through creative projects. Required for art majors.

**Art 111****Three-Dimensional Design**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Fundamentals of visual organization as applied to objects in-the-round. Visual space problems, structure and dimensional terminology through creative projects in various media. Required for art majors.

Art 130**Introduction to Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Introductory course in expressive drawing, exploring line, form, composition, and a variety of media. Drawing from man-made objects and natural forms. Required for art majors.

Art 131**Beginning Life Drawing**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Introduction to drawing the human form by observing live models for studies in anatomy, structure, and composition. Exposure to traditional and contemporary figurative drawing while exploring media and methods. Required for art majors. Art 130 recommended.

Art 151**Ceramics-Introductory Level**

Unit(s): 3.0

Class Hours: 32 Lecture, 64 Laboratory total.

Exploration of clay as a structural and creative material. Experiences include throwing on the potter's wheel and hand building. Instruction includes surface design, glazing, and experience in utilitarian forms. Students provide clay and tools.

Art 195**Introduction to Digital Media Arts**

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Introduction to digital media arts for artists, photographers, Web designers, programmers, and animation artists. Includes an overview of Photoshop, Illustrator, InDesign, digital graphics terminology, careers, market applications and design components. Work in computer lab with scanners, printers, CD ROM's and the Web.

BIOLOGY (BIOL)**Biology 239****General Human Anatomy**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Structure of the human body. Systems, organs, and tissues are studied from human skeletons, models, charts, slides and CD-ROM programs. Laboratory includes the dissection of a cat; and periodic demonstrations of a prosected cadaver as available.

Biology 249**Human Physiology**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Biology 239 or similar Human Anatomy course.

Microscopic, macroscopic and dynamic view of the human physiological processes. The lecture portion includes a thorough consideration of both "cell and systems" physiology. Laboratory work includes the use of techniques used in basic research, an introduction to the use of standard medical equipment and the performance of medical laboratory tests. Non-invasive experiments are performed on students enrolled in the class.

BUSINESS (BUS)**Business 100****Fundamentals of Business**

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introduction to the basic fundamentals of business. A survey of marketing, management, production, accounting, finance, and economics and how they interrelate in the business environment.

Business 101**Business Law**

Unit(s): 3.0

Class Hours: 48 Contact total.

Legal fundamentals important in commerce and personal business transactions. Includes a study of types of law, the courts, torts, contracts, sales and commercial paper.

Business 105**Legal Environment of Business**

Unit(s): 3.0

Class Hours: 48 Lecture total.

A study of the courts, torts (including product liability), crimes, contracts, employment, partnerships, corporations, government regulation, and international law.

Business 150**Introduction to Information Systems And Applications**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to computer concepts and management information systems. Application software will be used to solve business problems.

Business 222**Business Writing**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: English 101 or 101H.

Overview of oral and written communication skills used in business; emphasizes guidelines for improving writing and speaking skills, common solutions to common communication problems, ethical issues facing business communicators today, instructions on how to identify areas of legal vulnerability, and tested techniques for communicating successfully in today's high-tech, international business environment.

CHEMISTRY (CHEM)**Chemistry 219****General Chemistry**

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.

Prerequisite: Mathematics 080 or 081 and Chemistry 209 or Mathematics 080 or 081 and a passing score on current chemistry placement test. All courses must be completed with a grade of C or better.

Fundamental principles and concepts of chemistry including, but not limited to, atomic structure, quantum theory, periodic properties, stoichiometry, oxidation-reduction, molecular structure and bonding, gas laws, states of matter, solutions, chemical kinetics and chemical equilibrium.

Chemistry 219H**Honors General Chemistry**

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.

Prerequisite: Mathematics 080 or 081 and Chemistry 209 or Mathematics 080 or 081 and a passing score on current chemistry placement test. All courses must be completed with a grade of C or better. 3.0 cumulative GPA. Transcripts required to verify prerequisite.

Enriched and intensive study, including seminar approach, of fundamental principles and concepts of chemistry including, but not limited to, atomic structure, quantum theory, periodic properties, stoichiometry, oxidation-reduction, molecular structure and bonding, gas laws, states of matter, solutions, chemical kinetics and chemical equilibrium.

**Chemistry 229****General Chemistry and Qualitative Analysis**

Unit(s): 5.0

Class Hours: 48 Lecture, 96 Laboratory total.

Prerequisite: Chemistry 219 with a grade of C or higher.

Continuation of Chemistry 219, including but not limited to ionic equilibrium, acid and base equilibrium, thermodynamics, electrochemistry, nuclear chemistry, organic chemistry and descriptive chemistry.

COMMUNICATION STUDIES (CMST)**Communication Studies 101****Introduction to Interpersonal Communication**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to communication theory, listening, perception, language usage, non-verbal communication, and conflict management. Recommended for students who have completed or are currently enrolled in English 101.

Communication Studies 101H**Honors Introduction to Interpersonal Communication**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above.

Introduction to communication theory, listening, perception, language usage, non-verbal communication and conflict management. An enriched approach designed for honors students. Seminar mode stresses the development of analytical thinking, writing, and speaking skills. Completion or concurrent enrollment in English 101 recommended.

Communication Studies 140**Argumentation and Debate**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Principles of debate techniques with emphasis on methods of logical analysis and reflective thinking. Practical application through adaptation of material to forms of debate on current issues. Completion of or concurrent enrollment in English 101 recommended. Communication Studies 097 recommended for non-native speakers.

COMMUNICATIONS & MEDIA STUDIES (CMSD)**Communications & Media Studies 103****(C-ID JOUR 170)****Introduction to Visual Communications**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This multimedia course explores the social, cultural and historical implications of visual communications from Gutenberg's printing press to present day digital media. Using works of philosophical, historical and cultural importance students will analyze and debate the changes in the way visual communications affect society, and shape cultural values.

Communications & Media Studies 111**Media, Race and Gender**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This multimedia course is an overview of the social and cultural implications of mass media on race and gender from the 1920s to the present. Using works of philosophical and cultural importance students will analyze and debate the changes in the faces of media with particular focus on social class, gender and ethnicity.

Communications & Media Studies 121**(C-ID JOUR 110)****Introduction to Reporting and Newswriting**

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introduction to evaluating, gathering, and writing news across multiple platforms under newsroom conditions. Includes role of the journalist in a multi-media environment and the legal and ethical issues related to reporting. Writing experiences include: web-based and multi-media reporting, interviewing techniques, research methods, application of media law, writing under deadline and use of AP Style.

Communications & Media Studies 123A**(C-ID JOUR 130)****News Media Production**

Unit(s): 4.0

Class Hours: 64 Lecture, 160 Laboratory total.

A production-based course designed around a functioning media organization, providing students practical training in print, digital and Web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Arranged laboratory hours (TBA) 10 hours per week.

Communications & Media Studies 123B**Intermediate News Media Production**

Unit(s): 4.0

Class Hours: 64 Lecture, 160 Laboratory total.

An intermediate level production-based course designed around a functioning media organization, providing students practical training in print, digital and web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Completion of CMSD 123A is required. Arranged laboratory hours (TBA) 10 hours per week.

Communications & Media Studies 160**(C-ID JOUR 160)****Introduction to Photojournalism**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Explores the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Stresses news, feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet and other mass communications media.

Communications & Media Studies 210**(C-ID JOUR 210)****Intermediate Reporting and Newswriting**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: CMSD 121 with a minimum grade of C

This course is a continuation of Introduction to Newswriting and Reporting, and focuses on coverage of public affairs reporting, including local and regional government, police, courts, school, and city boards. It includes both on- and off-campus reporting and writing, stressing news presentation for a variety of media purposes through multiple platforms.

Communications & Media Studies 298A**Designing for Print and Digital Media**

Unit(s): 3.0

Class Hours: 48 Lecture, 48 Laboratory total.

A comprehensive course emphasizing professional standards, theory, and techniques in print, digital, and Web-based design. Students use a digital laboratory as a platform for training in design theory, visual organization, color theory, scale, unity and use of typography. For those interested in design careers.



COMPUTER SCIENCE (CMPR)

Computer Science 100

The Computer and Society

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introduction to the area of computers and their relationship to today's information society. Examines a broad overview of topics including: hardware, software, networking, information technology, and the Internet. The student will explore the implication and effect of technology on society, careers and ethics.

Computer Science 112

Java Programming

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of the Java language, its features and applications.

Computer Science 120

Introduction to Programming

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Prerequisite: Mathematics 080 or 081.

Introduction to programming concepts including data types, mathematical operations, elementary input/output, and the basic control structures of sequence, selection, iteration and functions. Program design techniques utilizing structured and object-oriented methodologies will be emphasized.

Computer Science 121

Programming Concepts

Unit(s): 3.0

Class Hours: 48 Lecture, 16 Laboratory total.

Prerequisite: Computer Science 120.

Continuing introduction to programming concepts, development of algorithms utilizing functions, classes and the primary control structures. Program I/O; strings and arrays; data types: classes and objects. Documentation techniques.

Computer Science 129 (C-ID COMP 142)

Introduction to Computer Organization

(Formerly: Computer Science 111)

Unit(s): 4.0

Class Hours: 64 Lecture total.

Presents the organization and structure of computers at hardware and software levels: analysis and synthesis of combinatorial and sequential logic, data representation and manipulation, language structures and translation, and process administration and management. Recommended preparation: Computer Science 121 or equivalent.

Computer Science 131 (C-ID COMP 132)

Data Structures Concepts

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Computer Science 121.

Application of simple Data Structures Concepts (ADT's) including linked structures, stacks, queues and trees. Use of pointers, recursion, sorting algorithms, classes and object-oriented programming to implement data structures.

Computer Science 141

Unix Operating System

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to computer operations using the UNIX and Linux operating systems. Includes the file system, shell programming and filters. Recommended preparation: Computer Science 121.

Computer Science 213

C# Programming

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of the C# programming. Topics covered include the .NET environment, object oriented programming including inheritance and polymorphism, and writing graphical user interfaces. Completion of Computer Science 121 is recommended.

COUNSELING (CNLS)

Counseling 144

Reasoning and Problem Solving

Unit(s): 3.0

Class Hours: 48 Lecture total.

The nature of critical thinking, models and strategies; common fallacies of reasoning, self-regulation in the thinking process; application of critical thinking to complex issues of life. (Same as Philosophy 144.)

DANCE (DNCE)

Dance 110

Beginning Mexican Folk Dance

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Introduces techniques, forms and regional/historical backgrounds of dances from various regions of Mexico. Students will perform at least 3 different traditional dances.

Dance 111

Intermediate Mexican Folk Dance

Unit(s): 1.0

Class Hours: 8 Lecture, 24 Laboratory total.

Continued study of techniques, forms and regional/historical backgrounds of dances from various regions of Mexico. Students will perform at least 3 different and more complex traditional dances. Dance 110 recommended.

ECONOMICS (ECON)

Economics 120

Principles/Macro

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to macroeconomics, including basic economic concepts, analysis of markets, national income accounting, employment, short run business cycle fluctuations, long run growth trends, monetary and fiscal policies, and international economic issues. Intended for economics, business, and certain engineering/computer science majors. Mathematics 060 or Mathematics 061 are recommended.

Economics 121

Principles/Micro

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introduction to microeconomics, including basic economic concepts, analysis of markets, efficiency consumer and firm behavior, industry structures, market failure, and resource markets. For economics, business, and certain engineering and computer science majors. Mathematics 060 or Mathematics 061 are recommended.

ENGLISH (ENGL)

English 101 (CID ENGL 100)

Freshman Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Grade of C or better in English 061 or EMLS 112 or ACE 116 or qualifying profile from English placement process.

Expository and argumentative essays and the research paper. Special interest sections described in schedule of classes.

English 101H (CID ENGL 100)

Honors Freshman Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in English 061/ESL EMLS 112 or ACE 116 or qualifying profile from English placement process.

An enriched exposure to expository and argumentative essays and the research paper, requiring in-depth analysis of issues and substantive treatment of student selected topics.

English 102

Literature and Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: A grade of C or better in English 101 or English 101H.

A second semester course in composition and literature that uses literature to develop critical thinking skills with extensive readings selected from the four major genres.



English 102H

Honors Literature and Composition

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in English 101 or 101H.

An enriched approach designed for honors students. A second semester course in composition and literature that uses literature to develop critical thinking skills with extensive readings selected from the four major genres.

English 103 (CID ENGL 105)

Critical Thinking and Writing

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101 or 101H with a grade of C or better.

This course focuses on developing critical thinking, reading, and writing skills by studying established argumentative methods and models and applying them to contemporary issues. Emphasis will be on logical reasoning and analytical and argumentative skills necessary for critical writing.

English 103H (CID ENGL 105)

Honors Critical Thinking and Writing

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in English 101 or 101H.

Enriched and intensive exploration of historical and contemporary issues. Application of critical thinking, writing and reading skills to established argumentative methods and models through student initiated discussion and problem-solving in a seminar setting.

GEOLOGY (GEOL)

Geology 101

Introduction to Geology

Unit(s): 3.0

Class Hours: 48 Lecture total.

Introductory course for students in any major. Study of the internal and external processes that shape the earth (earthquakes, volcanoes, groundwater, streams, landslides). Optional field trip offered. Concurrent enrollment in Geology 101L is recommended.

Geology 101L

Introduction to Geology Laboratory

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Geology 101 or concurrent enrollment.

Study of the common minerals and rocks. Map reading and interpretation of geology using topographic maps, geologic maps and aerial photos.

Geology 201

Introduction to Historical Geology

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Introductory geology course investigating the former landscapes and inhabitants of the Earth as preserved in the rock record with an emphasis on North America. Two optional one-day field trips.

HISTORY (HIST)

History 101

World Civilizations to the 16th Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

Development of world civilizations and their interrelationships from the earliest beginnings to the sixteenth century. Basic ideas, institutions, personalities, and artistic achievements of these societies.

History 101H

Honors World Civilizations to the 16th Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 and or above.

An enriched approach designed for honors students with emphasis on individual research as well as small group analysis of historical problems. Development of world civilizations and their interrelationships from the earliest beginnings to the sixteenth century. Basic ideas, institutions, personalities, and artistic achievements of these societies.

History 102

World Civilizations Since the 16th Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present-day society.

History 102H

Honors World Civilizations Since the 16th Century

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: High School or college G.P.A. of 3.0 or above.

An enriched approach designed for honors students with emphasis on individual research as well as small group analysis of historical problems. Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present-day society.

HUMAN DEVELOPMENT (HUD)

Human Development 107 (C-ID CDEV 100) Child Growth and Development (DS1)

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, from conception through adolescence. Using developmental theories and research methodologies, course emphasis will be on typical and atypical development, maturational processes and environmental factors. Students will also observe children, evaluate individual differences and analyze characteristics of development at various stages.

Human Development 108A (C-ID ECE 200) Observation and Assessment for Early Learning and Development

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Human Development 107.

Negative TB Test (must be completed before observations take place during the semester).

This course focuses 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.

Human Development 110 (C-ID CDEV 110) Child, Family and Community (DS2)

Unit(s): 3.0

Class Hours: 48 Lecture total.

This class examines the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. Socialization processes and identity development that support and empower families by showing the importance of respectful, reciprocal relationships will be explored.

Human Development 111A (C-ID ECE 120) Principles and Practices of Teaching Young Children

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Human Development 107 and 108A. Negative TB Test (need to complete before observation during the course).

This course examines the underlying historical and theoretical principles, and the developmentally appropriate practices of early childhood programs and environments. Emphases will be on the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. The evolution of professional practices promoting advocacy, ethics and professional identity will be explored.



Human Development 111B
Introduction to Curriculum for Young Children

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Human Development 108A and 111A. Negative TB Test.

This course presents an overview of knowledge and skills needed to provide developmentally appropriate curriculum for young children. Students will examine the teacher's role in supporting development, fostering the joy of learning and creativity through the essential role of play. Content areas include language/literacy, social/emotional/sensory learning, art, music, math, science, health/safety, and motor development.

Human Development 112 (C-ID ECE 220)
Health, Safety and Nutrition for Children

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course examines the regulations, policies, procedures and best practices for early childhood curriculum related to health, safety, food, and nutrition while supporting child development through everyday planning and school programming. The importance of collaboration between families and health and school professionals to ensure physical and mental health of all children, families, and professionals will be explored. Students must show proof of negative TB test results. Field trips to local child development centers may be included. Suggested preparation: Six units of human development classes

Human Development 221 (C-ID ECE 230)
Teaching in a Diverse Society

Unit(s): 3.0

Class Hours: 48 Lecture total.

Examination of the development of social identities in diverse societies, and implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches, self-examination, and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.

Human Development 298A (C-ID ECE 210)
Practicum in Early Childhood Programs

Unit(s): 3.5

Class Hours: 32 Lecture, 75 Laboratory total.

Prerequisite: Human Development 111B. This is a Capstone Course to be taken after all other courses in this major (Courses include: Human Development 107, 108A, 110, 111A, 111B, 112, 200, 221, 231). Negative TB Test.

Under guided supervision in a RSCCD Child Development Center or approved mentor site, students will demonstrate competency in connecting theory to practice, and enhance professional behaviors. Students will plan and implement child-centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as students design, implement, and evaluate positive experiences for young children.

INTERDISCIPLINARY STUDIES (IDS)

Interdisciplinary Studies 121
Humanities Through the Arts

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introduction to the humanities through a study of seven major art forms: film, drama, music, literature, painting, sculpture and architecture. Artistic works are considered from the perspectives of historical development, the elements used in the creation process, artistic form, and meaning expressed.

KINESIOLOGY ACTIVITIES (KNAC)

Kinesiology Activities 107A
Beginning Badminton

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction and practice includes the development of basic skills, techniques, and rules and strategies.

Kinesiology Activities 140
Karate

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course is designed to offer instruction in the Japanese art of Karate for beginning level students. Basic movements such as stances, blocking, kicking and striking are taught.

Kinesiology Activities 155
Self-Defense

Unit(s): 0.5

Class Hours: 32 Laboratory total.

Instruction in personal safety and self-protection including the effective use of hands, knees, elbows, feet, and the mind. Proficiency with everyday objects as weapons and defense against common street weapons is also stressed.

Kinesiology Activities 160
Tennis

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction and practice in the fundamental skills basic to the successful performance of tennis. These skills include grip and body mechanics involved with the forehand, backhand, serve, lob, smash, and net play. Etiquette, court strategy, and rules will be covered in singles and doubles play. Tournament play will be introduced.

Kinesiology Activities 170
Yoga

Unit(s): 0.5

Class Hours: 32 Laboratory total.

An exercise program involving postures to increase flexibility and core muscle strength as a way of improving and enhancing physical and mental alertness.

Kinesiology Activities 220A
Beginning Basketball

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Co-educational team sport activity which provides basic skills and techniques are refined at the beginner level. Rules, game strategies and competitive activities are included.

Kinesiology Activities 260A
Soccer-Beginning/Intermediate

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course is designed to introduce/better acquaint students to the game of (outdoor) soccer. Emphasis is placed on rules, techniques, safety and improving performance.

Kinesiology Activities 290
Volleyball

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction and practice in fundamental skills techniques, strategies, basic rules, team offense and defense, and team concepts of Volleyball.

Kinesiology Activities 292
Advanced Volleyball-Women

Unit(s): 1.0

Class Hours: 48 Laboratory total.

An advanced volleyball course designed for female athletes who have intercollegiate, USA club, or varsity high school volleyball experience. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, and sport specific physical fitness assessment and conditioning activities.



KINESIOLOGY AEROBIC FITNESS (KNAF)

Kinesiology Aerobic Fitness 140

Walking/Jogging for Fitness

Unit(s): 1.0

Class Hours: 48 Laboratory total.

This course will emphasize cardiovascular walking/jogging for health and fitness for men and women who are interested in instruction and practice in cardiovascular conditioning. The walking/jogging class is designed to decrease the risk of coronary heart disorders by increasing heart efficiency, vital lung capacity, and the knowledge of each through aerobic and anaerobic conditioning.

Kinesiology Aerobic Fitness 156A

Beginning Cardio Kickboxing

Unit(s): 1.0

Class Hours: 48 Laboratory total.

A series of boxing and kickboxing exercises are arranged to music, gradually increasing in tempo with a greater emphasis on a non-stop 25-30 minute program. Kicks, punches, calisthenics and rope jumping are combined to elevate heart rate and strengthen all major muscle groups. Students will learn to apply these self-defense techniques on kick pads and focus mitts to improve accuracy and provide resistance for the muscles.

Kinesiology Aerobic Fitness 157

Cardio Pump

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction in overall fitness development. This class is designed to incorporate weight lifting into a cardio routine. It develops strength and endurance of all major muscle groups using routines performed to music.

KINESIOLOGY AQUATICS (KNAQ)

Kinesiology Aquatics 201

Swimming

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Instruction and experience in the basic stroke techniques and safety procedures of swimming.

Kinesiology Aquatics 206

Lap Swimming

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Prerequisite: Student must demonstrate swimming skills.

Individualized swimming program designed to improve swimming techniques and cardiovascular fitness. Emphasis on endurance training. May be repeated. Grade: Pass/No Pass Only.

KINESIOLOGY FITNESS (KNFI)

Kinesiology Fitness 147A

Beginning Weight Training

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Introductory instruction in basic weight lifting concepts and experiential practice in large muscle area development utilizing guided and free weights. Development will be in muscle size or tone and strength or endurance.

KINESIOLOGY HEALTH EDUCATION (KNHE)

Kinesiology Health Education 105

(C-ID KIN 101 = KNHE 105 + KNHE 107)

First Aid and Personal Safety

Unit(s): 1.5

Class Hours: 24 Lecture total.

This course involves the theory and detailed demonstration of first aid care. Student's learn accident prevention, assessing a victim's condition, and immediate care to accident victims. American Heart Association first aid certification upon successful completion. May be repeated for recertification. Completion of KNHE 105 & KNHE 107 equate to C-ID KIN 101.

Kinesiology Health Education 107

(C-ID KIN 101 = KNHE 105 + KNHE 107)

Cardiopulmonary Resuscitation

Unit(s): 2.0

Class Hours: 32 Lecture total.

This course involves the theory and detailed demonstration in artificial respiration and manual artificial circulation (CPR) that is recommended for use in cardiac arrest cases. Instruction in the Automatic External Defibrillator (AED) is included. Successful completion may lead to American Heart Association Heartsaver or Health Care Provider with AED Certificate. May be repeated for recertification. Completion of KNHE 105 & KNHE 107 equate to C-ID KIN 101.

KINESIOLOGY PROFESSIONAL (KNPR)

Kinesiology Professional 101 (C-ID KIN 100)

Introduction to Kinesiology

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

MATHEMATICS (MATH)

Mathematics 145

Finite Mathematics

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 080 or 081 with a grade of C or better; or placement into Mathematics 145 on the Mathematics Level 3 placement exam AND a course equivalent to Mathematics 080 or 081.

Linear systems and matrix algebra, linear programming and the simplex method, mathematics of finance, algebra of sets, introduction to probability and counting, the binomial distribution, descriptive statistics, introduction to the normal curve. Application to the fields of business, economics, biological and behavioral sciences are emphasized.

Mathematics 150

Calculus for Biological, Management and Social Sciences

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 140 or Mathematics 145 with a grade of C or better; placement into Mathematics 150 on the Mathematics level 3 placement exam and a course equivalent to Mathematics 140.

Single and multi-variable calculus including limits, derivatives, integrals, exponentials and logarithmic functions and partial derivatives. Applications are drawn from Biology, Social Science and Business.

Mathematics 180

(C-ID MATH 900S = MATH 180 + MATH 185)

Analytic Geometry and Calculus

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 170 (Precalculus) with a grade of C or better or equivalent skills as measured by the Math Level 4 Exam and a course equivalent to Mathematics 170.

Limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental functions. Applications including extrema tests, related rates and areas.

Mathematics 180H

Honors Analytic Geometry and Calculus

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above and Mathematics 170 (Precalculus) with a grade of C or better or equivalent skills as measured by the Mathematics Level 4 Exam and a course equivalent to Mathematics 170.

An in-depth study of limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental function with the emphasis on theory and challenging problems. Applications include extrema tests, related rates and areas, volumes, arc length and surface areas.

**Mathematics 185****(C-ID MATH 900S = MATH 180 + MATH 185)
Analytic Geometry and Calculus**

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 180 or 180H, first semester calculus, with a grade of C or better.

Applications of integrals, including volumes, work, arc length, and surface area. Integration techniques, differential equations, conics, parametric equations, polar coordinates, improper integrals, sequences and infinite series.

Mathematics 219 (C-ID SOCI 125)**Statistics and Probability**

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 080 or 081 with a grade of C or better or placement into Mathematics 219 on the Mathematics Level 3 placement Exam AND a course equivalent to Mathematics 080 or 081.

Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology. (Same as Social Science 219.)

Mathematics 219H (C-ID SOCI 125)**Honors Statistics and Probability**

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 080 or 081 with a grade of C or better (or placement into Mathematics 219 on the Mathematics Level 3 placement exam AND a course equivalent to Mathematics 080 or 081) AND a high school or college GPA of 3.0 or higher.

Enhanced format for the beginning course in statistics and probability, using a seminar approach and computers and individual research, and presentations. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics, with applications designed around the individual interests of students. (Same as Social Science 219H.)

Mathematics 280**Intermediate Calculus**

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: Mathematics 185, second semester calculus, with a grade of C or better.

Vectors and three-dimensional space, functions of several variables, partial derivatives and multiple integrals. Vector calculus, Green's Theorem, Stoke's Theorem and the Divergence Theorem.

Mathematics 287**Introduction to Linear Algebra and Differential Equations**

Unit(s): 5.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 280 with a grade of C or better

Topics include matrices, determinants, vector spaces, linear systems of equations, linear product spaces, first and second order differential equations, systems of differential equations, and the Laplace transform.

MUSIC (MUS)**Music 101 (C-ID MUS 100)****Music Appreciation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Designed to increase awareness and appreciation of music from the European classical tradition in relation to general culture and history. Develops basic understanding of musical elements and deepens student's experience of music. Recommended for non-music majors.

Music 101H (C-ID MUS 100)**Honors Music Appreciation**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college CPA of 3.0 or above

An enriched approach designed for honors students. The European classical music tradition through study of musical elements, stylistic features, culture and history. Readings, guided listening assignments, required concert attendance and special projects. Recommended for non-music majors.

Music 111 (C-ID MUS 120) (C-ID MUS 125)**Basic Music Theory and Musicianship I (Formerly: Basic Theory and Ear Training)**

Unit(s): 4.0

Class Hours: 64 Lecture, 16 Laboratory total.

Introductory level course in music theory and its applications in traditional and modern musical practice. Includes detailed study of rhythm, notation, scales, intervals, chords, diatonic harmony and voice leading as well as sight singing and other musicianship skills. Ability to read music in at least one clef recommended. Required of music majors; open to non-majors.

**Music 112 (C-ID MUS 130) (C-ID MUS 135)
Music Theory and Musicianship II (Formerly: Theory 2)**

Unit(s): 4.0

Class Hours: 64 Lecture, 16 Laboratory total.

Prerequisite: MUS 111 with a minimum grade of C

Continued study of harmony and ear training. Includes writing phrases and cadences, non-harmonic tones, harmonization, voice leading, melodic construction, figured bass, chord progression and keyboard harmony. Required for music majors; open to non-majors.

Music 114A (C-ID MUS 145)**Musicianship**

Unit(s): 1.0

Class Hours: 16 Lecture, 32 Laboratory total.

Prerequisite: Music 112.

Competency-based sightsinging, rhythm, ear training, dictation (melodic/harmonic) for performers and transferring music majors. Arranged hours in Music Lab for computer programs and aural exercises.

Music 114B (C-ID MUS 155)**Musicianship**

Unit(s): 1.0

Class Hours: 16 Lecture, 32 Laboratory total.

Prerequisite: Music 114A.

Competency-based sightsinging, rhythm, ear training, dictation (melodic/harmonic) for performers and transferring music majors. Arranged hours in Music Lab for computer programs and aural exercises. B semester uses more advanced materials.

Music 115A (C-ID MUS 160)**Applied Music (Private Instruction)**

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestral instrument or classical guitar. Five hours on-campus practice per week and attendance at weekly recital required. B, C, and D semesters require study of more advanced repertoire. No more than a total of 4 semesters of credit may be earned in a combination of Music 115ABCD and 215. Requires audition and concurrent enrollment in either a music ensemble or music theory course. Open Entry/Open Exit.



Music 115B (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestra instrument or classical guitar covering more advanced repertoire than Music 115A. Five hours on-campus practice per week and attendance at weekly recital required. No more than a total of 4 semesters of credit may be earned in a combination of Music 115ABCD and 215. Requires audition and concurrent enrollment in either a music ensemble or music theory course. Open Entry/Open Exit.

Music 115C

Applied Music (Private Instruction)

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestral instrument or classical guitar covering more advanced repertoire than Music 115B. Five hours on-campus practice per week and attendance at weekly recital required. No more than a total of 4 semesters of credit may be earned in a combination of Music 115ABCD and 215. Requires audition and concurrent enrollment in either a music ensemble or music theory course. Open Entry/Open Exit.

Music 115D

Applied Music (Private Instruction)

Unit(s): 1.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestral instrument or classical guitar covering more advanced repertoire than Music 115C. Five hours on-campus practice per week and attendance at weekly recital required. No more than a total of 4 semesters of credit may be earned in a combination of Music 115ABCD and 215. Requires audition and concurrent enrollment in either a music ensemble or music theory course. Open Entry/Open Exit.

Music 135

Concert Chorale

Unit(s): 1.0

Class Hours: 72 Laboratory total.

Rehearsal and performance of standard and current choral repertoire. Designed to train students in mixed ensemble singing. Public performance emphasized. Each semester requires performance of a variety of new and different repertoire. Designed for students who have basic singing skills. May be repeated.

Music 137

Chamber Choir

Unit(s): 1.0

Class Hours: 64 Laboratory total.

Prerequisite: Audition.

Rehearsal and performance of chamber choir repertoire from various historical periods. Course designed for festival and concert performance. Each semester requires the performance of new repertoire. May be repeated.

Music 171

Concert Band

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Study and rehearsal of band music for concert performances on campus and in the community. Each semester requires performance of new and different repertoire. Designed for students with basic performance skills. May be repeated.

Music 175

Jazz Ensemble

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Study, rehearsal, and performance of contemporary jazz/rock music for the jazz ensemble with help in developing techniques of improvisation. Each semester requires performance of new and different jazz repertoire. Designed for students with basic performance skills. May be repeated.

Music 181

Chamber Orchestra

Unit(s): 1.0

Class Hours: 48 Laboratory total.

Rehearsal and performance of standard repertoire for chamber orchestra. Each semester requires the performance of a variety of different repertoire. Designed for students who have basic performance skills. May be repeated.

Music 213 (C-ID MUS 140)

Theory 3

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Music 112.

Continuation of diatonic harmony from Music 112. Chromatic harmony introduced. Includes non-dominant seventh chords, secondary dominants, modulation, and altered chords. Keyboard harmony. Concurrent enrollment in Music 114A recommended. Required for music majors; open to non majors.

Music 214 (C-ID MUS 150)

Theory 4

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: Music 213.

Continuation of Music 213. Late nineteenth century harmonic technique, and important aspects of twentieth century style. Analysis and writing of short, derivative compositions. Keyboard harmony. Concurrent enrollment in Music 114B recommended. Required for music majors; open to non-majors.

Music 271

Symphonic Band

Unit(s): 1.0

Class Hours: 48 Laboratory total.

The rehearsal and performance of band music. Preparation of standard band repertoire for performances in the community. Each semester requires performance of a variety of new and different repertoire. Designed for students with intermediate or advanced performance skills. May be repeated.

PHILOSOPHY (PHIL)

Philosophy 110

Critical Thinking

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: English 101 or 101H with a grade of C or better

College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society.

Philosophy 110H

Honors Critical Thinking

Unit(s): 4.0

Class Hours: 64 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above and a grade of C or better in English 101/101H.

An enriched approach designed for honors students in a seminar setting. College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society.

Philosophy 111 (C-ID PHIL 110)

Introductory Logic

Unit(s): 4.0

Class Hours: 64 Lecture total.

Beginning course in formal and applied logic. Covers cognitive language, formal argument, proof, basic propositional and predicate logic, and philosophy of logic. Emphasizes active student involvement and practical application to college life.

**Philosophy 112****World Religions**

Unit(s): 3.0

Class Hours: 48 Lecture total.

A philosophical overview of the world's great religions. Includes historical origin and growth of each religion, major doctrines, and influence. Religions dealt with include Primitive, Hinduism, Jainism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam.

Philosophy 144**Reasoning and Problem Solving**

Unit(s): 3.0

Class Hours: 48 Lecture total.

The nature of critical thinking, models and strategies; common fallacies of reasoning, self-regulation in the thinking process; application of critical thinking to complex issues of life. (Same as Counseling 144)

PHOTOGRAPHY (PHOT)**Photography 180****Beginning Photography**

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

This course provides students with an introduction to visual concepts, basic image capture and camera functions with digital cameras. Software basics for photographic imaging and digital printing, along with digital printing will be taught.

PHYSICS (PHYS)**Physics 210****Principles of Physics I**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 180/180H with a grade of C or better.

A calculus-based physics course designed for students majoring in the life sciences, pre-medicine, and related disciplines. Topics include classical mechanics, wave motion, and thermodynamics.

Physics 217 (C-ID PHYS 205)**Engineering Physics I**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 180 or 180H with a grade of C or better.

Principles of classical mechanics including particle dynamics, forces, work, energy, momentum, rotational motion, equilibrium, harmonic motion and gravity. This course is designed for students majoring in physical sciences and engineering.

Physics 279**College Physics I**

Unit(s): 4.0

Class Hours: 48 Lecture, 48 Laboratory total.

Prerequisite: Mathematics 160 with a grade of C or better.

A trigonometry-based physics course. Topics include: mechanics, thermodynamics, fluids, oscillatory motion, and sound.

POLITICAL SCIENCE (POLT)**Political Science 101****Introduction to American Governments**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Study of United States national government and California state and local governments. Satisfies graduation requirement for American institutions and state requirements for California state government.

Political Science 101H**Honors Introduction to American Governments**

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 and or above.

A student-oriented exploration of the historical and contemporary principles of American government. Study groups and individual computer-based research focus on basic political concepts of American national and state governments. Satisfies graduation requirement for American Institutions and state requirements for California state government.

Political Science 201**Introduction to Comparative Politics**

Unit(s): 3.0

Class Hours: 48 Lecture total.

A study of the histories, political cultures, and governmental arrangements of various nations and regions around the world. Comparative study is made of the "First World" or industrialized democracies, the "Second World" or former and current communist countries, and the "Third World" developing, and "Fourth World" non-developing countries.

READING (READ)**Reading 150****Critical Reading**

Unit(s): 3.0

Class Hours: 48 Lecture total.

This course addresses the relationship between critical reading and thinking, including emphasis on the development of critical reading and thinking skills that facilitate the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading. Completion of or concurrent enrollment in English 101 recommended.

SOCIAL SCIENCE (SOCS)**Social Science 219 (C-ID SOCI 125)****Statistics and Probability**

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 080/081 or 140 with a grade of C or better or equivalent skills as measured by the Math Level 3 Exam and a course equivalent to Mathematics 080/081 or 140.

Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology. (Same as Mathematics 219.)

Social Science 219H (C-ID SOCI 125)**Honors Statistics and Probability**

Unit(s): 4.0

Class Hours: 80 Lecture total.

Prerequisite: Mathematics 080/081 with a grade of C or better (OR placement into Mathematics 219 on the Mathematics Level 3 placement exam AND a course equivalent to Mathematics 080/081) AND a high school or college GPA of 3.0 or above.

Enhanced format for the beginning course in statistics and probability, using a seminar approach, computers, individual research, and presentations. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics, with applications designed around the individual interests of students. (Same as Mathematics 219H.)



SOCIOLOGY (SOC)

Sociology 100 (C-ID SOCI 110)

Introduction to Sociology

Unit(s): 3.0

Class Hours: 48 Lecture total.

The scientific study of human societies and behavior focusing on the process of social interaction, patterns of social inequality, and the influence of social institutions on individuals as members of social groups. Special emphasis provided to explain factors promoting social stability and social change.

Sociology 100H (C-ID SOCI 110)

Honors Introduction to Sociology

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 and or above.

A seminar-style, content enriched course to provide a critical and extensive exploration of the sociological perspective, methods, and theories of social interaction, stability and change. Focuses on the importance of sociology for understanding individuals in a social context and provides a comprehensive understanding of and scientific way of thinking about society.

Sociology 112 (C-ID SOCI 130)

Relationships, Marriages, and Family Dynamics

Unit(s): 3.0

Class Hours: 48 Lecture total.

In-depth examination of the process of developing intimate relationships leading to committed partnerships and marriages with emphasis on effective communication techniques, understanding relationship dynamics, parenting, diverse family systems and overcoming family stressors at each life stage.

Sociology 140 (C-ID SOCI 115)

Analysis of Social Trends and Problems

Unit(s): 3.0

Class Hours: 48 Lecture total.

An extensive survey of contemporary social trends and problems through sociological analysis concentrating on their causes, complexities, consequences, and possible solutions. Special emphasis will be placed on the problems in the U.S., with consideration of the global perspective.

Sociology 140H (C-ID SOCI 115)

Honors Analysis of Social Trends and Problems

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 and or above.

A seminar-style, in-depth sociological analysis and critique of U.S. social trends and problems with an emphasis on contemporary and historical social policy, with additional consideration of global perspectives.

TV/VIDEO COMMUNICATIONS (TELV)

TV/Video Communications 105

(C-ID JOUR 100)

Mass Media and Society

Unit(s): 3.0

Class Hours: 48 Lecture total.

Exploration of the history, effects, and role of mass media in U.S. society. Examines major media forms (TV, radio, film, newspapers, magazines, ads, the Internet) in our information-conscious culture.

TV/Video Communications 105H

(C-ID JOUR 100)

Honors Mass Media and Society

Unit(s): 3.0

Class Hours: 48 Lecture total.

Prerequisite: A high school or college GPA of 3.0 or above

Enriched honors course of intensive exploration of historical impact and current influence of Mass Media (news-papers, TV, Internet, etc.). Uses critical thinking skills in seminar-setting to assess media's role in society.

THEATRE ARTS (THEA)

Theatre Arts 100 (C-ID THTR 111)

Introduction to Theatre

Unit(s): 3.0

Class Hours: 48 Lecture total.

An introduction to the art and concepts of theatre through a study of modern and historical theories of dramatic structure, playwriting, directing, design, and acting. Attendance at live theatre required.

Theatre Arts 131 (C-ID THTR 171)

Stagecraft

Unit(s): 3.0

Class Hours: 48 Lecture, 32 Laboratory total.

Introduction to technical theatre including basic principles of scenic design; construction, and painting; principles of lighting design, technology and process; plus stage and scene shop procedures. Preparation for on stage crew assignments. Concurrent enrollment in Theatre Arts 135 is recommended.

Theatre Arts 132 (C-ID THTR 175)

Stage Makeup

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Basic techniques and artistry of stage makeup and its relation to the total production. Covers history, aesthetics and design theory, color theory, materials, and application procedures for varied characterizations. Practical application of learned skills are applied to departmental productions.

Theatre Arts 133 (C-ID THTR 173)

Stage Lighting

Unit(s): 3.0

Class Hours: 32 Lecture, 48 Laboratory total.

Theory and practice of modern stage lighting including the properties and characteristics of varied conventional control systems and instruments. Techniques for proper installation, maintenance and safety are included.

Theatre Arts 135 (C-ID THTR 192)

Technical Production

Unit(s): 1.0

Class Hours: 80 Laboratory total.

Supervised instruction and practical application in stage production techniques. Each repetition presents more advanced material. May be repeated.

Theatre Arts 150 (C-ID THTR 191)

(C-ID THTR 192)

Theatre Production

Unit(s): 2.0

Class Hours: 16 Lecture, 96 Laboratory total.

Practical experience in performance production or technical production culminating in a series of public performances. Students desiring an acting role must audition. May be repeated.

Theatre Arts 152 (C-ID THTR 191)

Tour Ensemble

Unit(s): 2.0

Class Hours: 16 Lecture, 48 Laboratory total.

Prerequisite: Audition.

Acting ensemble providing performance experience for advanced students. Audition required. May be repeated.

Theatre Arts 155 (C-ID THTR 191)

Children's Theatre Ensemble

Unit(s): 2.0

Class Hours: 16 Lecture, 96 Laboratory total.

Prerequisite: Audition.

Intensive rehearsal and performance experience leading to an extended-run Children's Theatre production. Preparation for repertory theatre production experience. May be repeated.



SAC is a fresh start.

Gabriel Sierra,
Criminal Justice



SAC is accepting to all types of people.

Jennifer Sommer,
Nursing



SAC is a place to discover my career.

Adela Salazar,
Undecided



SAC is the beginning of the end. (Transferring to UC Santa Cruz)

Jacob Moreno,
Music



SAC is diverse in its classes.

Diana Alizaga,
Animation



SAC is accepting.

Fernando Ramirez,
Anthropology



SAC is a place to get work done.

Easter Fakopo,
Liberal Arts



SAC is unique.

Daizy Lopez,
Nursing



SAC is the first school I chose to study, since leaving Vietnam.

Quyen Do,
Nursing



SAC is where I learned to excel in my field.

Danielle Hernandez,
Business



SAC is my college where I can study anything of my choice.

Nguyet Nguyen,
Pharmacist



SAC is a second chance at football recognition.

Brett Hurley,
Undecided



SANTA ANA COLLEGE

1530 W. 17th Street, Santa Ana

- **Centennial Education Center**
2900 W. Edinger Avenue, Santa Ana
- **Digital Media Center**
1300 S. Bristol Street, Santa Ana
- **Orange County Regional Sheriff's Training Academy**
15991 Armstrong Avenue, Tustin
- **Joint Power Training Center - Fire Academy**
18301 Gothard, Huntington Beach



SAC is career oriented.

Duncan Wilson,
Fire Technology



SAC is a journey closer to my goals.

Solema Soliai,
Business Administration