ABOUT THE ADDENDUM

The Rancho Santiago Community College District and Santiago Canyon College have made every reasonable effort to determine that everything stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the district for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the district and the college. The district and the college further reserve the right to add, amend, or repeal any of their rules, regulations, policies, and procedures. The contents of this addendum are in addition to the content specified in the 2012-2013 catalog. The unrevised content of the 2012-2013 catalog and the revised content of this addendum are valid for the 2012-2013 academic year.

This catalog is available in alternate format to qualified individuals with disabilities. For more information, phone 714-628-4864 or come to the DSPS Center in E-105.
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PRESIDENT’S MESSAGE, STUDENT LEARNING OUTCOMES, AND COLLEGE MISSION

A MESSAGE FROM THE PRESIDENT
Dear Student:
Congratulations on making one of the most important decisions of your life, to pursue an education. Whether your goal is to transfer to a four-year university, earn an associate’s degree or certificate, or train for a new career, we’re here to help you succeed. SCC is a young, growing college that retains the friendly atmosphere and personal attention you need to meet your goals.

Whether a new or returning student, you are the top priority of everyone at SCC. Our faculty and staff provide the best possible education in a caring and supportive environment. Additionally, we offer many services, including tutoring, counseling, job placement assistance, library services, financial aid and more.

Welcome to the SCC family, and I wish you success in your academic pursuits.

Sincerely,
Juan A. Vázquez

INSTITUTIONAL STUDENT LEARNING OUTCOMES
To achieve our mission, SCC has identified Institutional Learning Outcomes with four core competencies: Learn, Communication, Act, and Think. Students will be able to:

Learn—About Self and Others, Academic and Professional Issues
• Take responsibility for one’s own learning and wellbeing.
• Learn about one’s chosen academic major, while creating connections across disciplines.
• Learn about professional conduct, including workplace and community ethics, conflict management, and teamwork.

Communicate—With Clarity & Accuracy & in Diverse Environments
• Communicate ideas in a clear and articulate manner.
• Communicate accurately to diverse audiences.
• Communicate in various formats using diverse technologies.

Act—With Awareness of Self & the Local & Global Community of Persons
• Act to maintain one’s dignity and self-respect.
• Act as a responsible community member who treats others with respect, civility, empathy, honesty and dignity.
• Act to increase the wellbeing of the global community by maintaining cultural literacy, lifelong learning, ethical consideration of each other, and the environment we all share.

Think—Critically, Creatively, and Reflectively
• Critically analyze, evaluate, organize and use quantitative and qualitative data to solve problems and develop logical models, hypotheses and beliefs.
• Creatively use concepts to making learning relevant.
• Reflectively assess one’s values, assumptions, and attitudes.

SANTIAGO CANYON COLLEGE MISSION STATEMENT
Santiago Canyon College is an innovative learning community dedicated to intellectual and personal growth. Our purpose is to foster student success and to help students achieve these core outcomes: to learn, act, communicate and think critically. We are committed to maintaining standards of excellence and providing an accessible, a transferable, and an engaging education to a diverse community.
ASSOCIATE DEGREES FOR TRANSFER

Associate Degrees for Transfer
The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Requirements
The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in the program section of the catalog. All courses in the major must be completed with a grade of C or better or a “P” if the course is taken on a “pass-no pass” basis (Title 5 § 55063).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) (see page 8 for more information); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern for CSU (see page 9 for more information).

CSU, Fullerton Similar Degree Report
as of June 29, 2012

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<th>Associate Degrees for Transfer Programs at SCC</th>
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<td>Psychology</td>
<td>Psychology, B.A.</td>
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<tr>
<td>Physics</td>
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Up-to-date information on similar degrees offered at CSU Fullerton and other CSU campuses can be viewed at www.adegreewithaguarantee.com
TRANSFER TO OTHER COLLEGES

Transfer Center
The Transfer Center provides resources and services to assist students who are preparing to transfer to four-year colleges or universities. The Transfer Center sponsors various events throughout the year, including tours to universities, university representative advising appointments, transfer fairs, and a variety of workshops to help students with each step in the transfer process. In addition, the Transfer Center provides many useful resources such as: updates via Facebook and email, a comprehensive web site, university catalogs and guidebooks, computers with Internet access, and expert advice from trained specialists and counselors with walk-in and appointment service available. For more information, stop by D-104-N, call 714-628-4865, or visit www.sccollege.edu/transfer.

Transferability of Courses
This section of the catalog is designed to help students plan an academic program for transfer to a four-year college or university. It includes information about the transfer process and general education requirements.

Since transfer requirements change frequently, students should meet with a counselor regularly to plan an academic program which will assure a smooth transition to the transfer institution of their choice.

Four-year colleges and universities often make changes in their requirements. The requirements listed in this section were updated at the time of publication; however, changes may have occurred after publication. Current transfer information and official articulation agreements are available in the Transfer Center and the Counseling Center at Santiago Canyon College. Articulation agreements are also available at www.assist.org.

There are four segments of higher education in California. They are: a) the University of California (UC) system with 10 campuses; b) the California State University (CSU) system with 23 campuses; c) the 120 accredited independent colleges and universities; and, d) the 112 California community colleges.

Santiago Canyon College provides the first two years of a four-year college or university program. Santiago Canyon College offers courses to meet general education, major or elective requirements. Students can transfer a maximum of 70 semester units to a UC or CSU campus.

All courses numbered 100 or above will transfer to a CALIFORNIA STATE UNIVERSITY campus. Courses which are transferable to the UNIVERSITY OF CALIFORNIA will be designated on the UC Transferable Course Agreement, which can be found on page 10. Some of the courses which are transferable to the University of California have credit limitations. Check the UC Transferable Course Agreement to review these limitations. This list is available in the Counseling Center, Transfer Center, in this catalog, and at www.assist.org.

Independent and out-of-state colleges and universities usually accept most courses that are transferable to the University of California and many of the courses that are transferable to the California State University.

Begin a Transfer Major at Santiago Canyon College
To obtain a bachelor's degree, students need to select a subject area in which to specialize. This subject area is called a major. Almost every major requires that certain courses be completed during the first and/or second year of college. These are called Lower-Division Major Requirements. Many of these requirements can be completed at SCC prior to transferring. (The highly specific courses in the major are called Upper-Division Requirements and these are completed after transfer). In developing a program for transfer, first consideration in most cases should be given to completing the courses required in the major or as preparation for the major.

Course Requirements for Transfer Students
A student can transfer from Santiago Canyon College to a four-year college or university as a junior without loss of time or credits by completing the following:

1. Lower-Division Major Requirements. Most majors at four-year colleges and universities require the completion of one or more lower-division courses as preparation for the upper-division course work in a major. Santiago Canyon College offers courses to meet the lower-division requirements for most majors at four-year colleges and universities. Information about many specific major requirements is available in the Counseling and Transfer Center, or at www.assist.org. Students should meet with a counselor for additional information about major programs and requirements.

2. General Education Requirements. These are the courses required of students to obtain a degree regardless of major. They are designed to provide students with the knowledge, skills and understanding which will enable them to function as intelligent and creative members of the community. Courses in writing, critical thinking, mathematics, sciences, arts and humanities and the social sciences are included in general education.

3. Electives. These are courses of choice taken in addition to courses for the major and general education requirements.

Students enrolled in a transfer program can complete most of their general education and lower-division major requirements before transferring. Students who are planning to transfer to a four-year college or university should meet with a Santiago Canyon College counselor in the Counseling Center to develop a Student Educational Plan which will identify the courses needed to transfer.

Transfer students may also want to complete an associate degree. While not a requirement for transfer, the associate degree is generally recommended, and proper planning should enable students to satisfy both requirements for graduation from SCC and for transfer.

California State University
The California State University has 23 campuses located throughout the state. While each campus within the system has its own unique geographic and curricular character, all campuses offer undergraduate and graduate instruction for professional and occupational goals as well as a broad liberal education. The CSU offers more than 1,800 bachelor's and master's degrees in some 240 subject areas. Campuses are located at Bakersfield, Channel Islands, Chico, Dominguez Hills, East Bay, Fresno, Fullerton, Hayward, Humboldt, Long Beach, Los Angeles, Monterey Bay, Northridge, Pomona (Cal Poly), Sacramento, San Bernardino, San Diego, San Francisco, San Jose, San Luis Obispo (Cal Poly), San Marcos, Sonoma, Stanislaus, and Vallejo (California Maritime).
To obtain a bachelor’s degree from the CSU system, a student must complete a minimum of 120 semester units (180 quarter units). A maximum of 70 units of transferable credit will be accepted for courses completed at a community college.

Prospective CSU transfer students should consult a counselor regarding CSU admission, as requirements vary depending upon the student’s status at the time of high school graduation.

California State University Admissions Requirements for Transfer Students

Upper-Division Transfer

Students are eligible for upper-division transfer if they complete at least 60 transferable semester (90 quarter) units and if they:

1. Earn a college grade point average of 2.0 (C) or better (2.4 for non-California residents) in all transferable units attempted.

2. Are in good standing at the last college or university attended (eligible to enroll).

3. Have completed or will complete prior to transfer at least 30 semester (45 quarter) units of college courses equivalent general education requirements with a grade of “C” or better. The 30 semester (45 quarter) units must include all of the general education requirements in:

   • Communication in the English Language and Critical Thinking (at least 9 semester or 12 quarter units to include written communication, oral communication, and critical thinking) and Mathematics (at least 3 semester or 4 quarter units)

   OR

   • If completing the Intersegmental General Education Transfer Curriculum (Plan C), English Communication (at least 9 semester or 12 quarter units in English composition, oral communication, and critical thinking) and Mathematics (at least 3 semester or 4 quarter units).

NOTE: Some CSU campuses may impose a higher GPA admission standard based on impacted major or impacted campus status.

Lower-Division Transfer

A student may be eligible for lower-division transfer (completion of less than 60 units) if the student has completed all admission requirements required for first-time freshmen. Some CSU campuses may also require completion of general education classes in math and English, with a “C” or better prior to admission. If the student did not complete all the subject requirements in high school, appropriate college courses may be used to make up the missing subjects. Many CSU campuses will not accept lower-division transfer students. Please see a Santiago Canyon College counselor for more information.

General Education Requirements for California State University

To earn a bachelor’s degree from the California State University, each student must complete a program of general education. Santiago Canyon College offers general education programs which will enable students to meet the lower-division general education requirements for all CSU campuses prior to transfer. Students can complete either the CSU General Education Breadth Requirements (Plan B) or the Intersegmental General Education Transfer Curriculum (Plan C).

Plan B

CSU General Education Breadth Requirements

See page 8 of the Catalog for specific courses which meet these requirements.

1. ENGLISH COMMUNICATION – 9 units (CSU and UC)
2. MATHEMATICAL CONCEPTS – 3 units
3. ARTS AND HUMANITIES – 9 units
4. SOCIAL AND BEHAVIORAL SCIENCE – 9 units
5. PHYSICAL AND BIOLOGICAL SCIENCES – 9 units
6. LANGUAGE OTHER THAN ENGLISH – 0-5 units (UC)

California State University also has an American Institutions requirement which can be satisfied prior to transfer by taking Political Science 101 and an approved American History course in Area 4.

Completion of these courses is advised for students, completing the IGETC pattern, and transferring to a CSU campus. See page 5 for specific details.

Students following the IGETC pattern (Plan C) are strongly advised to complete all requirements prior to transfer. Completion of the pattern allows the student to become certified, which means the student has met all lower-division general education requirements. Partial certification is permitted if a student has completed all but two (2) courses on the IGETC pattern.
Specific rules apply to how and when the remaining courses must be completed after transfer. Please see a Santiago Canyon College counselor for guidelines.

Students who complete Plan C are eligible to receive a Certificate of Achievement in General Education (IGETC).

**Certification of General Education for Transfer to UC or CSU**

Upon a student’s request Santiago Canyon College will verify the completion of lower-division general education requirements for transfer to the University of California (Intersegmental General Education Transfer Curriculum, Plan C) or the California State University (either the CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum, Plan B or Plan C). Students who transfer without certification will have to meet the general education requirements of the specific UC or CSU campus to which they are transferring. Meeting these requirements usually necessitates taking additional courses.

Students who have taken courses at other colleges can have these courses approved in the certification process. Using the Intersegmental General Education Transfer Curriculum or CSU General Education Breadth, Santiago Canyon College will certify (guarantee) courses taken at other California community colleges in the areas designated by the offering college.

Courses taken at other regionally accredited institutions (which do not maintain a CSU GE Breadth or IGETC certification list) may be approved for certification via a “Pass Along Petition” and after a review by the Santiago Canyon College Articulation Officer. Courses are pass along for IGETC or CSU GE Breadth if they are equivalent to courses on the Santiago Canyon College or another California community college’s IGETC or CSU GE Breadth pattern. Petitions are available from the Santiago Canyon College Counseling Department and must be accompanied by the appropriate documentation. Students must make an appointment with a Santiago Canyon College counselor before submitting a Pass Along Petition.

Courses from foreign institutions cannot be used in the certification process.

Students should request IGETC certification from the last California Community College they attend prior to transfer to UC or CSU.

Students requesting CSU GE Breadth certification must complete at least 12 units at Santiago Canyon College.

**NOTE:** Transcripts from all colleges attended must be submitted to the Admission Office prior to requesting certification.

**Independent and Out-Of-State Colleges and Universities**

In addition to state supported colleges and universities in California, there are many outstanding independent institutions in the state. There are also many colleges, both private and public, located throughout the United States to which Santiago Canyon College students can transfer. Each of these institutions has its own unique requirements for admission. In order to determine eligibility, students should visit the website of the university to view admission requirements or obtain a copy of the university catalog.

Santiago Canyon College has articulated general education requirements and major preparation courses with a number of independent institutions such as Chapman University, The University of San Diego, and the University of Southern California. Students transferring to independent or out-of-state institutions should meet with a Santiago Canyon College counselor in order to determine appropriate general education and major preparation requirements.

California’s fully-accredited independent colleges and universities provide many options at the undergraduate, graduate, and professional levels for students planning to continue their education beyond the community college. For a complete listing of independent colleges and universities in California, please visit [www.aiccu.edu](http://www.aiccu.edu) or the Santiago Canyon College transfer website at [www.sccollege.edu/transfer](http://www.sccollege.edu/transfer).
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. Upon request Santiago Canyon College will verify the completion (certify) of up to 39 units of lower-division general education requirements. Nine semester units of general education units must be completed at the upper-division level after transfer. Students are strongly encouraged to meet with a Santiago Canyon College counselor when planning to transfer to a CSU campus.

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 2012 and are valid through Summer 2013.

A. Communication in the English Language and Critical Thinking (minimum 9 units)
   The 9 units selected from this area must include at least one course 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 100/100H, 101, 110, 111
   A2: Written Communication
   English 101/101H
   A3: Critical Thinking
   Communication 111
   Counseling 144
   English 103/103H
   Philosophy 110/110H, 111, 144
   Reading 150

B. The Physical Universe and Its Life Forms (minimum 9 units)
   Complete ONE course from Area B1 and ONE course from Area B2. One course MUST have a corresponding lab from Area B3. Lab courses are in bold. Complete ONE Math course from Area B4 with a grade of "C" or better (C minus is not acceptable.)
   B1: Physical Sciences
   Astronomy 109, 110, 112
   Chemistry 119, 209, 210, 219
   Earth Science 110
   Geography 101
   Geology 101, 150, 201
   Physical Science
   Physics 109, 210, 211, 217, 250A (F’11), 279
   B2: Life Science
   Anthropology 101
   Biology 109/109H, 139, 149, 177, 211, 212, 214, 229, 259
   Environmental Studies 259
   B3: Laboratory Activity
   Astronomy 140
   Biology 109L, 139, 149, 211, 212, 214, 229, 239, 259
   Chemistry 119, 209, 210, 219
   Earth Science 115
   Environmental Studies 259
   Geology 101L, 201
   Physical Science
   Physics 109, 210, 211, 217, 250A (F’11), 279
   B4: Mathematics/Quantitative Reasoning
   Mathematics 105, 140, 150, 160, 170, 180/180H, 219/219H
   Social Science 219/219H

C. Arts, Literature, Philosophy, and Foreign Language (minimum 9 units)
   This area must include one course from C1 and one course from C2.
   C1: Arts (Art, Dance, Music, Theatre)
   Art 100/100H, 101, 102
   Dance 100
   English 233A*, 233B*
   Music 101/101H, 102, 103, 104
   Television/Video Communications 103, 104
   Theatre Arts 100, 103, 104
   C2: Humanities
   English 102/102H, 231, 232, 233A*, 233B*, 241, 242, 246, 270, 271, 272, 278*
   French 101, 102, 194, 196, 201, 202
   History 101*/101H*, 102*/102H*, 152, 162
   Italian 101, 102, 194, 195, 201, 202
   Sign Language 110, 111, 112, 116
   **Both courses must be completed for C2 credit.

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

D. Social, Political, and Economic Institutions and Behavior; Historical Background
   (minimum 9 units)
   Courses must be selected from at least 2 different subareas.
   D1: Anthropology and Archeology
   Anthropology 100/100H, 103, 104
   D2: Economics
   Economics 120, 121
   D3: Ethnic Studies
   Chicano Studies 101
   English 278*
   Ethnic Studies 101
   History 124*
   Psychology 170*
   D4: Gender Studies
   Communication 225/225H
   English 278*
   History 127*
   Political Science 221
   Women's Studies 101, 102
   D5: Geography
   Geography 100/100H, 102
   D6: History
   History 101/101H*, 102/102H*, 118, 120/120H, 121/121H, 122, 124*, 127*, 133, 152, 162
   (No credit for History 122 if taken after History 101/101H and one
   course from Area D.

   NOTE: Both courses must be completed for C2 credit.

   D8: Political Science, Government, and Legal Institutions
   Political Science 101/101H, 200/200H, 201, 220, 221, 226, 230
   D9: Psychology
   Human Development 107*
   Psychology 100/100H, 157*, 170, 200, 219, 230*, 240, 250
   Sociology 240
   D10: Sociology and Criminology
   Criminal Justice 101
   Sociology 100/100H, 112*, 140/140H

E. Lifelong Understanding and Self-Development
   (minimum 3 units)
   Only one unit from E2 can be used to satisfy Area E.
   E1: Communication
   Communication 102
   Counseling 111, 125
   Exercise Science 100, 102, 110, 111, 112
   Human Development 107*
   Interdisciplinary Studies 155*
   Nutrition and Food 115
   Psychology 157*, 230*
   Sociology 112*
   E2: Exercise Science 115–289 (Excluding 134, 136, 139, 173, 175, 275, 285)

CERTIFICATION REQUIREMENTS
1. No more than 30 semester units may be certified for areas B through D combined.
2. Pass/No Pass grades are accepted for certification in all areas. However, 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 Pass.
3. Grades of "C-" earned in Areas A1, A2, A3, and B4 will not be certified.
4. A single course may not meet more than one general education requirement.
5. Certification of coursework from other colleges will only be granted to students who have completed a minimum of 12 units at Santiago Canyon College.
6. 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.
7. Courses taken at other regionally accredited institutions (which do not maintain a CSU certification list) may be approved for certification via a “Pass Along Petition” and after a review by the Santiago Canyon College Articulation Officer. Courses completed at foreign institutions are not acceptable for certification. Pass Along Petitions are available from the Santiago Canyon College Counseling Department and must be accompanied by the appropriate documentation.
8. Requests for certification should be made during the semester prior to the last term of attendance. Please consult the class schedule or the Admissions website at www.sccollege.edu or the Santiago Canyon College Counseling Department for deadline information.

*Courses may be listed in more than one area but will not be certified in more than one area.
B1, B2, B3: Courses in bold have laboratory activity.
Completion and certification of all the requirements in the Intersessional General Education Transfer Curriculum (IGETC) will permit a student to transfer from Santiago Canyon 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. Completion of IGETC does not guarantee admission to a UC campus. Students are strongly encouraged to meet with a Santiago Canyon College counselor when planning to transfer to a UC campus.

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 2012 and are valid through Summer 2013.

AREA 1—ENGLISH COMMUNICATION
C.S.U.: 3 courses required, one from each group.
U.C.: 2 courses required, one from Group A and B.

Group A: English Composition
1 course required, minimum 3 semester units.
English 101* or 101H*

Group B: Critical Thinking—English Composition
1 course required, minimum 3 semester units.
English 103* or 103H*
Philosophy 110* or 110H*

Group C: Oral Communication (CSU ONLY)
1 course required, minimum 3 semester units.
Communication 100* or 100H* (F'10), 101, 110, 111

AREA 2A—MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING
1 course required, minimum 3 semester units.
Math 105, 140*, 150*, 170*, 180*/180H*, 185, 219*/219H*, 280, 287 (F'10)
Social Science 219* or 219H*

AREA 3—ARTS & HUMANITIES
3 courses required, minimum 9 semester units, with at least one course from Group A and one course from Group B.

Group A: Arts (minimum 3 units)
Art 100* or 100H*, 101, 102
Dance 100
Music 101* or 101H*, 102, 103, 104
Television/Video Communications 103, 104
Theatre Arts 100, 103, 104

Group B: Humanities (minimum 3 units)
English 102* or 102H*, 231, 232, 233A, 233B, 241, 242, 246, 271, 272, 278
French 102, 201, 202
History 101* or 101H*, 102* or 102H*
Italian 102, 201, 202
Philosophy 106* or 106H*, 108, 112, 115, 118, 120
Sign Language 111, 112, 116
Spanish 102* or 102H*, 195A, 195B, 201, 202

AREA 4—SOCIAL & BEHAVIORAL SCIENCES
3 courses required, minimum 9 semester units from at least 2 disciplines or an interdisciplinary sequence.
Anthropology 100* or 100H*, 103, 104
Chicano Studies 101
Communication 225* or 225H*
Criminal Justice 101
Economics 120, 121
Ethnic Studies 101
Geography 100* or 100H*, 102
History 118, 120*/120H*, 121*/121H*, 122*, 124, 127, 133, 152, 162
Human Development 107*
Interdisciplinary Studies 155
Political Science 101* or 101H*, 200* or 200H*, 201, 220, 221, 230
Psychology 100* or 100H*, 157*, 170, 200, 219, 230, 240, 250
Sociology 100* or 100H*, 140* or 140H*, 240
TV/Video Communications 105
Women's Studies 101*, 102

AREA 5—PHYSICAL & BIOLOGICAL SCIENCES
Minimum 7–9 semester units. One Physical Science course and one Biological Science course required. One course must include a corresponding laboratory. Lab courses are underlined.

Group A: Physical Science (minimum 3 units)
Astronomy 109, 110, 112
Chemistry 110*, 209*, 210, 219, 229
Earth Science 110
Geography 101*
Geology 101*, 150, 201
Physical Science 115
Physics 109*, 210*, 211*, 217*, 227*, 237*, 250A* (F'11), 250B* (F'11), 250C* (F'11), 279*, 289*

Group B: Biological Science (minimum 3 units)
Anthropology 101
Biology 109* or 109H*, 139, 177, 211, 212, 214, 229, 239, 249, 259
Environmental Studies 259

Group C: Laboratory Activity (minimum 1 unit)
Astronomy 140
Biology 109L, 139, 211, 212, 214, 229, 249, 259
Chemistry 110L, 209L*, 210L*, 229
Earth Science 115
Environmental Studies 259
Geology 101L, 201L
Physical Science 115
Physics 109L, 210L*, 211L*, 217*, 227*, 237*, 250A* (F'11), 250B* (F'11), 250C* (F'11), 279*, 289*

AREA 6—LANGUAGE OTHER THAN ENGLISH (LOTE)
(UC ONLY) This proficiency may be met by one of the following methods:
Satisfactory completion of two years of high school coursework in a language other than English with grades of “C” or better; or completion of one of the following: French 101, Italian 101, Spanish 101* or 101H*, 101B; Sign Language 110

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 completion of an achievement test administered by a college in language other than English equivalent to two years of high school language; or verification of student competency equivalent to two years of high school language.

AMERICAN INSTITUTIONS REQUIREMENT (AI)
(Not part of IGETC. May be completed prior to transfer.)
CSU has an American Institutions graduation requirement that is separate from IGETC. 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*, 124, 127. These courses can be used for 6 of the 9 units required in Area 4 (Social and Behavioral Sciences).

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”).

Requirements vary by UC campus. Check with a Santiago Canyon College counselor to determine which courses to take.

CERTIFICATION REQUIREMENTS
1. Complete all courses used for IGETC certification with a minimum grade of C (C minus is not acceptable). A “Pass” is acceptable providing it is equivalent to a grade of C or higher.
2. 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 the Santiago Canyon College Counseling Department for deadline information.
3. Prior to requesting certification, have official transcripts on file from every high school and college you have attended.
4. 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.
5. A course taken at other regionally accredited institutions (which do not maintain an IGETC certification list) may be approved for certification via a “Pass Along Petition” and after a review by the Santiago Canyon College Articulation Officer. Pass Along Petitions are available from the Santiago Canyon College Counseling Department and must be accompanied by the appropriate documentation.
6. Courses completed at foreign institutions are not acceptable except for certification of competence in a language other than English.
7. Completing IGETC prior to transfer is strongly recommended and can be advantageous in the admissions process. Partial certification is permitted if the student has completed all but two courses on the pattern. Please see a Santiago Canyon College counselor for guidelines.

* Indicates that transfer credit may be limited by either UC or CSU or both.
Please consult with a counselor for additional information.
** Official High School transcript must be on file in the admissions office.
Area SA, SB, SC: underlined courses have laboratory activity.
SANTIAGO CANYON COLLEGE
ASSOCIATE DEGREES FOR TRANSFER PROGRAMS

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.

To view the most current list of Santiago Canyon College’s Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to www.sccollege.edu/transferdegrees. 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.

**Major requirements for the associate degrees for transfer are in addition to the General Education Breadth for California State University (CSU) or Intersegmental General Education Transfer Curriculum (IGETC) for the University of California (UC) requirements found on page 3.**
BUSINESS

Associate in Science in Business Administration for Transfer Degree (31365)

The Associate in Science in Business Administration for Transfer degree provides students with a comprehensive business education in the principles and practices of all phases of business. A student graduating with an Associate in Science in Business Administration for Transfer degree may transfer to a four-year institution to complete a Bachelor's Degree. Completion of the requirements guarantees students the ability to transfer to any CSU school in any area of business. Students will be accepted to a California State University campus to pursue a baccalaureate degree and preparation to pursue a career is the field of business, industry or government.

Major requirements** for the associate in sciences for transfer degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 101, Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>Accounting 102, Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>Business 105, Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>Economics 120, Principles/Macro</td>
<td>3</td>
</tr>
<tr>
<td>Economics 121, Principles/Micro</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from the following (List A):</td>
<td></td>
</tr>
<tr>
<td>Mathematics 150, Calculus for Biological, Management and Social Sciences</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 219/219H, Statistics and Probability</td>
<td>4</td>
</tr>
<tr>
<td>Social Science 219/219H, Statistics and Probability</td>
<td></td>
</tr>
<tr>
<td>Select two courses from the following (List B):</td>
<td></td>
</tr>
<tr>
<td>Any course from List A (may not be a course used to satisfy the requirements of A)</td>
<td>4</td>
</tr>
<tr>
<td>Business 100, Fundamentals of Business</td>
<td>3</td>
</tr>
<tr>
<td>Business 222, Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 100, The Computer and Society</td>
<td></td>
</tr>
<tr>
<td>Business 150, Introduction to Information Systems and Applications</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL 27-28

COMMUNICATION

Associate in Arts in Communication Studies for Transfer Degree (30558)

The Associate in Arts in Communication Studies for Transfer degree provides training to build and maintain personal and professional relationships through effective communication. Completion of the transfer degree in Communication prepares students to: (1) Communicate with clarity and accuracy in diverse environments. (2) Act with awareness of self amongst local and global communities. (3) Think critically, creatively and reflectively, and (4) Learn about the self in professional and interpersonal relations. Successful completion of the transfer degree in Communication guarantees the student acceptance to a local California State University to pursue a baccalaureate degree, in preparation to pursue a career in the field of business, industry, government, social service, and/or education in such areas as teaching, public speaking, consulting, law, announcing, and public relations.

Major requirements** for the associate in arts in degree for transfer:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication 110, Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Choose two courses from the following (List A):</td>
<td>6</td>
</tr>
<tr>
<td>Communication 100/100H, Introduction to (3)</td>
<td></td>
</tr>
<tr>
<td>Communication 101, Group Dynamics (3)</td>
<td></td>
</tr>
<tr>
<td>Communication 111, Argumentation and Debate (3)</td>
<td></td>
</tr>
<tr>
<td>Choose two courses from the following (List B):</td>
<td>6</td>
</tr>
<tr>
<td>An additional course from (List A) (may not be a course used to satisfy the requirements in A)</td>
<td></td>
</tr>
<tr>
<td>Communication 120/120H, Introduction to (3)</td>
<td></td>
</tr>
<tr>
<td>Intercultural Communication</td>
<td></td>
</tr>
<tr>
<td>Communication 134, Oral Interpretation (3)</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following (List C):</td>
<td>3-4</td>
</tr>
<tr>
<td>An additional course from (List A) or (List B) (may not be a course used to satisfy the requirements in A or B)</td>
<td></td>
</tr>
<tr>
<td>Communication 135, Readers Theatre (3)</td>
<td></td>
</tr>
<tr>
<td>Communication 225/225H, Gender Communication (3)</td>
<td></td>
</tr>
<tr>
<td>English 102/102H, Literature and Composition (4)</td>
<td></td>
</tr>
<tr>
<td>English 103/103H, Critical Thinking and Writing (4)</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL 18-19

**Major requirements for the associate degrees for transfer are in addition to the General Education Breadth for California State University (CSU) or Intersegmental General Education Transfer Curriculum (IGETC) for the University of California (UC) requirements found on page 3.
ENGLISH

Associate in Arts in English for Transfer Degree (31366)

The Associate in Arts in English for Transfer degree enables students to develop proficiency in written communication and in the understanding of human nature through the study of language and literature. Completion of the transfer degree in English prepares students to (1) communicate effectively, (2) exercise critical thinking and reasoning, (3) read and write to express creativity, and (4) explore the history of significant literary works. Successful completion of the transfer degree in English guarantees the student acceptance to a local California State University to pursue a baccalaureate degree in English or a related field.

**Major requirements** for the associate in arts degree for transfer:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 102/102H, Literature and Composition</td>
<td>4</td>
</tr>
<tr>
<td>English 103/103H, Critical Thinking and Writing</td>
<td>4</td>
</tr>
<tr>
<td>Select two courses from the following (List A):</td>
<td></td>
</tr>
<tr>
<td>English 231, Survey of English Literature</td>
<td>3</td>
</tr>
<tr>
<td>English 232, Survey of English Literature</td>
<td>3</td>
</tr>
<tr>
<td>English 241, Survey of American Literature 1600-1865</td>
<td>3</td>
</tr>
<tr>
<td>English 242, Survey of American Literature, 1865-Present</td>
<td>3</td>
</tr>
<tr>
<td>English 271, Survey of World Literature</td>
<td>3</td>
</tr>
<tr>
<td>English 272, Survey of World Literature</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from the following (List B):</td>
<td></td>
</tr>
<tr>
<td>An additional course from (List A)</td>
<td>3</td>
</tr>
<tr>
<td>(may not be a course used to satisfy the requirements of A)</td>
<td></td>
</tr>
<tr>
<td>English 211, Creative Writing 1/Fiction</td>
<td>3</td>
</tr>
<tr>
<td>English 212, Creative Writing 11/Fiction</td>
<td>3</td>
</tr>
<tr>
<td>English 214, Creative Writing 1/Poetry</td>
<td>3</td>
</tr>
<tr>
<td>English 215, Creative Writing 11/Poetry</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from the following (List C):</td>
<td></td>
</tr>
<tr>
<td>An additional course from (List A or B)</td>
<td>3</td>
</tr>
<tr>
<td>(may not be a course used to satisfy the requirements of A or B)</td>
<td></td>
</tr>
<tr>
<td>English 220, Survey of the Bible As Literature</td>
<td>3</td>
</tr>
<tr>
<td>English 233A, Shakespeare s Comedies and Romances</td>
<td>3</td>
</tr>
<tr>
<td>English 233B, Shakespeare s Tragedies and History Plays</td>
<td>3</td>
</tr>
<tr>
<td>English 246, Survey of Chicano Literature</td>
<td>3</td>
</tr>
<tr>
<td>English 270, Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>English 278, Survey of Literature by Women</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>20</td>
</tr>
</tbody>
</table>

MATHEMATICS

Associate in Science in Mathematics for Transfer Degree (31040)

The Associate in Science in Mathematics for Transfer degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree. Employment opportunities are available as mathematicians in government, health, industry and education. Successful completion of the transfer degree in Mathematics guarantees the student acceptance to a local California State University to pursue a baccalaureate degree in Mathematics or a related field.

**Major requirements** for the associate in science for transfer degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 180/180H, Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 185, Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 280, Intermediate Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Select one course from the following (List A):</td>
<td>4-5</td>
</tr>
<tr>
<td>Mathematics 287, Introduction to Linear Algebra and Differential Equations (5)</td>
<td></td>
</tr>
<tr>
<td>Mathematics 290, Linear Algebra (4)</td>
<td></td>
</tr>
<tr>
<td>Mathematics 295, Beginning Differential Equations (4)</td>
<td></td>
</tr>
<tr>
<td>Select one course from the following (List B):</td>
<td>3-4</td>
</tr>
<tr>
<td>Computer Science 112, Java Programming (3)</td>
<td></td>
</tr>
<tr>
<td>Computer Science 120, Introduction to Programming (3)</td>
<td></td>
</tr>
<tr>
<td>Computer Science 213, C# Programming (3)</td>
<td></td>
</tr>
<tr>
<td>Physics 217, Engineering Physics I (4)</td>
<td></td>
</tr>
<tr>
<td>Mathematics 219/219H, Statistics and Probability (4)</td>
<td></td>
</tr>
<tr>
<td>Social Science 219/219H, Statistics and Probability (4)</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>19-21</td>
</tr>
</tbody>
</table>

PHYSICS

Associate in Science in Physics for Transfer Degree (31039)

The Associate in Science in Physics for Transfer degree provides a foundation in physics and mathematics for students planning to transfer into a baccalaureate program in physics or physics education. Successful completion of the transfer degree in Physics guarantees the student acceptance to a local California State University to pursue a baccalaureate degree in Physics or a related field.

**Major requirements** for the associate in science for transfer degree:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 217, Engineering Physics I (4)</td>
<td>4</td>
</tr>
<tr>
<td>OR Physics 250A, Physics for Scientists and Engineers I (5)</td>
<td>4-5</td>
</tr>
<tr>
<td>Physics 227, Engineering Physics II (4)</td>
<td>4</td>
</tr>
<tr>
<td>OR Physics 250B, Physics for Scientists and Engineers II (5)</td>
<td>4-5</td>
</tr>
<tr>
<td>Physics 237, Engineering Physics III (4)</td>
<td>4</td>
</tr>
<tr>
<td>OR Physics 250C, Physics for Scientists and Engineers III (5)</td>
<td>4-5</td>
</tr>
<tr>
<td>Mathematics 180/180H, Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 185, Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 280, Intermediate Calculus</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL</td>
<td>24-27</td>
</tr>
</tbody>
</table>

**Major requirements for the associate degrees for transfer are in addition to the General Education Breadth for California State University (CSU) or Intersegmental General Education Transfer Curriculum (IGETC) for the University of California (UC) requirements found on page 3.**
PSYCHOLOGY

Associate in Arts in Psychology for Transfer Degree (31041)

The Associate in Arts in Psychology for Transfer degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree for specialization in any of more than twenty branches of psychology including: child, clinical, personality, vocational, marriage and family counseling, industrial, mental health, and college teaching. Completion of the two-year program is appropriate for students whose vocational plans include helping people, i.e., teaching, social welfare, probation, criminology, nursing, law, and personnel work. Successful completion of the transfer degree in Psychology guarantees the student acceptance to a local California State University to pursue a baccalaureate degree in Psychology or a related field.

Major requirements** for the associate in arts for transfer degree:

Course Units
Psychology 100/100H, Introduction to Psychology 3
Psychology 219, Introduction to Research Methods in Psychology 3
Mathematics 219/219H, Statistics and Probability OR 4
Social Science 219/219H, Statistics and Probability

Select one course from the following (List A):
Psychology 200, Introduction to Biological Psychology 3
Biology 109/109H, Fundamentals of Biology

Select one course from the following (List B):
An additional course from List A
(may not be a course used to satisfy the requirements in List A)
Psychology 157, Introduction to Child Psychology 3
Psychology 240/Sociology 240, Introduction to Social Psychology

Select one course from the following (List C):
An additional course from List A or B 3-5
(may not be a course used to satisfy the requirements in List A or B)
Anthropology 100/100H, Introduction to Cultural Anthropology 3
Anthropology 101, Introduction to Physical Anthropology 3
Chemistry 119, Fundamentals - General and Organic 5
Philosophy 110/110H, Critical Thinking 4
Philosophy 111, Introductory Logic 4
Psychology 170, Multicultural Psychology 3
Psychology 230, Psychology and Effective Behavior 3
Psychology 250, Introduction to Abnormal Psychology 3
Sociology 100/100H, Introduction to Sociology 3

TOTAL 19-21

SOCIOCY

Associate in Arts in Sociology for Transfer Degree (30600)

The Associate in Arts in Sociology for Transfer degree is an interdisciplinary social science program providing students an understanding of interpersonal behavior and social structure, a critical appreciation of contemporary social life, and a form of reference for an analysis of human behavior. Successful completion of the transfer degree in Sociology guarantees the student acceptance to a local California State University to pursue a baccalaureate degree in Sociology or a related field.

Major requirements** for the associate in arts degree for transfer:

Course Units
Sociology 100/100H, Introduction to Sociology 3

Select two courses from the following (List A):
Sociology 140/140H, Analysis of Social Trends and Problems (3)
Social Science 219/219H, Statistics and Probability (4)
OR
Mathematics 219/219H, Statistics and Probability (4)

Select two courses from the following (List B):
Sociology 112, Relationships, Marriages, and Family Dynamics (3)
Sociology 240, Introduction to Social Psychology (3)
OR
Psychology 240, Introduction to Social Psychology (3)

Select one course from the following (List C):
Anthropology 100/100H, Introduction to Cultural Anthropology (3)
English 103/103H, Critical Thinking and Writing (4)
Psychology 100/100H, Introduction to Psychology (3)

TOTAL 19-20

**Major requirements for the associate degrees for transfer are in addition to the General Education Breadth for California State University (CSU) or Intersegmental General Education Transfer Curriculum (IGETC) for the University of California (UC) requirements found on page 3.
ANNOUNCEMENT OF COURSES

Each course is designated by a number. A descriptive title and the units allowed for the course follow the course number. Courses numbered 100 and above are university parallel courses and are offered for transfer to many colleges and universities. Courses that transfer to the California State University (CSU) or the University of California (UC) will have this designation noted at the end of the course description. There may be a credit limitation for some courses that transfer to the University of California and additional courses may be approved for transferability after the publication of this catalog. Please see a Santiago Canyon College Counselor to develop a transfer education plan. Courses numbered 100 and above followed by the letter “H” are university parallel courses for transfer to colleges and universities and are offered as part of the Santiago Canyon College Honors Program. Students enrolling in these courses must meet the designated prerequisites. Courses numbered less than 100 are not designed for transfer. Since these courses are not ordinarily offered in the universities and four-year colleges, they are not always applicable to the requirements for the bachelors of arts or bachelors of science degrees; however, courses numbered below 100 are applicable to the associate degree unless preceded by the letter “N”. Courses numbered less than 100 preceded by the letter “N” are not applicable to the associate degree and do not count toward graduation but do count toward course load.

The college reserves the right to cancel scheduled classes.
The Course Identification Numbering System (C-ID) is a statewide numbering system independent from 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 numbers. 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. Santiago Canyon College counselors can always help students interpret or explain this information.

<table>
<thead>
<tr>
<th>Course Identification Number</th>
<th>SCC Course</th>
<th>Course Identification Number</th>
<th>SCC Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 110</td>
<td>CHEM 219, General Chemistry</td>
<td>PHYS 105</td>
<td>PHYS 210, Principles of Physics I</td>
</tr>
<tr>
<td>CHEM 120S</td>
<td>CHEM 219 + CHEM 229, General Chemistry + General Chemistry and Qualitative Analysis</td>
<td>PHYS 105</td>
<td>PHYS 279, College Physics I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHYS 110</td>
<td>PHYS 211, Principles of Physics II</td>
</tr>
<tr>
<td>COMM 110</td>
<td>COMM 110, Public Speaking</td>
<td>PHYS 110</td>
<td>PHYS 289, College Physics II</td>
</tr>
<tr>
<td>COMM 120</td>
<td>COMM 111, Argumentation and Debate</td>
<td>PHYS 2005</td>
<td>PHYS 217 + PHYS 227 + PHYS 237, Engineering Physics I + Engineering Physics II + Engineering Physics III</td>
</tr>
<tr>
<td>COMM 140</td>
<td>COMM 101, Group Dynamics</td>
<td>PHYS 2005</td>
<td>PHYS 250A + PHYS 250B + PHYS 250C, Physics for Scientist and Engineering I + Physics for Scientist and Engineer</td>
</tr>
<tr>
<td>MATH 220</td>
<td>MATH 185, Analytic Geometry and Calculus</td>
<td></td>
<td>Engineering II + Physics for Scientist and Engineering III</td>
</tr>
<tr>
<td>MATH 240</td>
<td>MATH 295, Beginning Differential Equations</td>
<td>PHYS 205</td>
<td>PHYS 217, Engineering Physics I</td>
</tr>
<tr>
<td>MATH 250</td>
<td>MATH 290, Linear Algebra</td>
<td></td>
<td>PHYS 205</td>
</tr>
<tr>
<td>MATH 900S</td>
<td>MATH 180 + MATH 185, Analytic Geometry and Calculus</td>
<td></td>
<td>PHYS 205</td>
</tr>
<tr>
<td>PHYS 100S</td>
<td>PHYS 210 + PHYS 211, Principles of Physics I + Principles of Physics II</td>
<td>PHYS 205</td>
<td>PHYS 250A, Physics for Scientist and Engineering I</td>
</tr>
<tr>
<td>PHYS 100S</td>
<td>PHYS 279 + PHYS 289, College Physics I + College Physics II</td>
<td>PHYS 210</td>
<td>PHYS 227, Engineering Physics II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHYS 210</td>
<td>PHYS 250B, Physics for Scientist and Engineering II</td>
</tr>
</tbody>
</table>
ACCOUNTING (ACCT)

Accounting 101
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. CSU/UC

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. CSU/UC

ANTHROPOLOGY (ANTH)

Anthropology 100
Introduction to Cultural Anthropology
Unit(s): 3.0
Class Hours: 48 Lecture total.
A cross-cultural survey of the major areas of cultural anthropology including subsistence patterns, economic and political systems, family and kinship, religion, and cultural change. Also includes contemporary issues facing humankind such as the environment, resource depletion, ethnic conflict, globalization, and warfare. Emphasis is on understanding cultural diversity and cultural universals. CSU/UC

Anthropology 100H
Honors Introduction to Cultural Anthropology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A college or high school GPA of 3.0 or above.
Seminar style, content enriched for honors students, to provide a critical and extensive exploration of the major areas of cultural anthropology. Includes contemporary issues such as globalization, gender, and ethnic conflict. CSU/UC

Anthropology 101
Introduction to Physical Anthropology
Unit(s): 3.0
Class Hours: 48 Lecture total.
An introduction to humankind's place in nature, including evolutionary theory, principles of genetics, primate evolution and behavior, fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes practical application of biological anthropology to human problems. CSU/UC

BIOLOGY (BIOL)

Biology 109
Fundamentals of Biology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Recommended Preparation: Concurrent enrollment in Biology 109L.
Principles of biology stressing the relationship of all organisms from anatomical, physiological and ecological points of view. Includes cell machinery, genetics, reproduction, embryology, animal behavior, botany, ecology, evolution and human physiology. Designed for non-biology majors. CSU/UC

Biology 109H
Honors Fundamentals of Biology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above.
Recommended Preparation: Concurrent enrollment in Biology 109L.
Traditional Biology enriched in breadth and depth by extensive outside reading assignments and guest lecture presentations. Emphasis is on individual preparation for discussion and analysis of pertinent topics using critical oral and written expression. Designed for non-biology majors. CSU/UC
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. CSU/UC

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. CSU/UC

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 used to solve business problems. CSU/UC

Business 222
Business Writing
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101/101H.
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. CSU

CHEMISTRY (CHEM)

Chemistry 119
Fundamentals - General and Organic
Unit(s): 5.0
Class Hours: 64 Lecture total, 48 Laboratory total.
Prerequisite: Mathematics 060 or 061 or higher.
No prior chemistry needed. For majors in nursing, dietetics, family and consumer studies, pharmacy technology, biology, and physical education. Includes atomic structure, nuclear chemistry, bonding, solutions, acids and bases, organic nomenclature, hydrocarbons and alcohols. CSU/UC

COMMUNICATION (COMM)

Communication 100
Introduction to Interpersonal Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
Recommended Preparation: Concurrent enrollment in English 101/101H.
Introduction to communication skills of listening, perception, language usage, non-verbal communication, and conflict management, emphasizing methods of overcoming barriers to effective communication in interpersonal relationships. CSU/UC

Communication 100H
Honors Introduction to Interpersonal Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college G.P.A. or 3.0 or above.
Recommended Preparation: Concurrent enrollment in English 101/101H.
Enriched approach for honors students. Highly interactive seminar mode of instruction. Stresses the development of analytical thinking, writing, and speaking skills. An introduction to communication skills of listening, perception, language usage, non-verbal communication, and conflict management, emphasizing methods of overcoming barriers to effective communication in interpersonal relationships. CSU/UC

Communication 111
Argumentation and Debate
Unit(s): 3.0
Class Hours: 48 Lecture total.
Recommended Preparation: English 101/101H (may be taken concurrently). American College English 087 for non-native speakers.
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. CSU/UC (C-ID)

Communication 120
Introduction to Intercultural Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
A general view of the sociological, psychological, and communication patterns of major cultural groups. Special emphasis on the methods, skills, and techniques necessary for effective intercultural, crosscultural, and interracial communication. Stresses the development of analytical thinking and writing skills. ACE 087 recommended for non-native speakers. CSU

Communication 120H
Honors Introduction to Intercultural Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above.
Enriched for honors students. In-depth, seminar format examination of sociological, psychological, and communication patterns of major cultural groups. Methods, skills, and techniques for effective intercultural and interracial communication.
Stresses analytical thinking skills. CSU/UC
Communication 134
Oral Interpretation
Unit(s): 3.0
Class Hours: 48 Lecture total.
Oral performance of prose, poetry, and drama; practice in speaking, interpretation, and analysis of literature, with training in the principles of effective delivery. ACE 087 recommended for non-native speakers. CSU/UC

Communication 135
Readers Theatre
Unit(s): 3.0
Class Hours: 48 Lecture total.
Research, construct, rehearse, and perform interpretation of literature in an ensemble setting. Learn basic elements of choral reading, singing, and movement. May be repeated. CSU/UC

Communication 225
Gender Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
Recommended Preparation:
Communication 100/100H, 101, 110 or 111.
Practical application, techniques and in-depth analysis of male and female communication regarding language usage, biological and social influences, mass media, marriage, organizations, same-sex/cross-sex friendships and education. CSU/UC

Communication 225H
Honors Gender Communication
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above.
Recommended Preparation:
Communication 100/100H, 101, 110 or 111.
Enriched approach in application, techniques and in-depth analysis of male and female communication regarding language usage, biological and social influences, mass media, marriage, organizations, same-sex/cross-sex friendships and education. Students will be required to do individual/group professor-guided research. CSU/UC

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. CSU/UC

Computer Science 112
Java Programming
Unit(s): 3.0
Class Hours: 48 Lecture total.
Study of the Java language, its features and applications. Previous structured programming experience recommended. CSU/UC

Computer Science 120
Introduction to Programming
Unit(s): 3.0
Class Hours: 48 Lecture total, 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 methods utilizing structured and object-oriented methodologies will be emphasized. CSU/UC

Computer Science 213
C# Programming
Unit(s): 3.0
Class Hours: 48 Lecture total.
Recommended Preparation: Computer Science 121.
Study of C# programming. Topics covered include the .NET environment, object-oriented programming including inheritance and polymorphism, and writing graphical user interfaces. CSU/UC

ECONOMICS (ECON)

Economics 120
Principles/Macro
Unit(s): 3.0
Class Hours: 48 Lecture total.
Recommended Preparation: Mathematics 060 or 061.
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. CSU/UC

Economics 121
Principles/Micro
Unit(s): 3.0
Class Hours: 48 Lecture total.
Recommended Preparation: Mathematics 060 or 061.
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. CSU/UC

ENGLISH (ENGL)

English 102
Literature and Composition
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: English 101/101H.
A second semester course in composition and literature that continues to focus on expository and analytical writing with extensive readings selected from the four major genres. CSU/UC

English 102H
Honors Literature and Composition
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: English 101/101H and a high school or college GPA of 3.0 or above.
An enriched approach designed for honors students. A second semester course in composition and literature that continues to focus on expository and analytical writing with extensive readings selected from the four major genres. CSU/UC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Class Hours</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 103</td>
<td>Critical Thinking and Writing</td>
<td>4.0</td>
<td>64</td>
<td>English 211</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This course focuses on developing logical reasoning and analytical and argumentative skills necessary for critical writing. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 103H</td>
<td>Honors Critical Thinking and Writing</td>
<td>4.0</td>
<td>64</td>
<td>English 101/101H and a high school or college GPA of 3.0 or above.</td>
</tr>
<tr>
<td></td>
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<td>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. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 211</td>
<td>Creative Writing I/Fiction</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Writing techniques focusing on fiction. Workshop format, emphasis on writing and critiquing. Repeated courses will focus on different genres: short story, novel, and drama. May be repeated. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 212</td>
<td>Creative Writing II/Fiction</td>
<td>3.0</td>
<td>48</td>
<td>English 211.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Writing techniques focusing on fiction. Workshop format, emphasis on writing and critiquing. Repeated courses will focus on different genres: short story, novel, and drama. May be repeated. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 214</td>
<td>Creative Writing I/Poetry</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>A poetry-writing course focusing on poetic techniques, forms and content. Extensive written practice and analysis of the poem and its variety as seen in student and professional work. Covers techniques for submitting works for publication. May be repeated. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 215</td>
<td>Creative Writing II/Poetry</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>An advanced poetry-writing course focusing on poetic techniques, forms and content. Extensive written practice and analysis of the poem and its variety as seen in student and professional work. Special emphasis is on the timeless themes of poetry. Covers techniques for submitting works for publication. May be repeated. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 220</td>
<td>Survey of the Bible As Literature</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
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<tr>
<td></td>
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<td></td>
<td>A study of the literary history, influence, and craftsmanship of the Bible and an exploration of related stories, poems, plays, essays and other diverse materials. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 221</td>
<td>Survey of English Literature</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
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<td>Introductory study of representative selections of British literature from the Anglo-Saxon period to the neo-classical period. Emphasis on authors best exemplifying their period, such as Chaucer, Shakespeare, Spenser, Jonson, Milton, Donne, Dryden, Johnson, Behn, Pope, and others. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 222</td>
<td>Survey of American Literature 1600-1865</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Survey of America's greatest works of literature from 1600-1865. Emphasizes the relationship between various works and general movements in American culture and literary history. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 223A</td>
<td>Shakespeare's Comedies and Romances</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
<td></td>
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<td>Study of selected Shakespearean comedies and romances. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABCD. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 223B</td>
<td>Shakespeare's Tragedies and History Plays</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Study of selected Shakespearean history plays and tragedies. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABCD. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 400</td>
<td>English Composition</td>
<td>3.0</td>
<td>48</td>
<td>English 101/101H.</td>
</tr>
<tr>
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<td>A writing-intensive course is designed to develop students' writing, reading, and critical thinking skills. Emphasis on the use of standard English in all types of writing. &lt;sup&gt;CSU/UC&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>CSU/UC</sup> indicates that the course is transferable to both California State University (CSU) and the University of California (UC).
English 242
Survey of American Literature,
1865-Present
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101/101H.
Survey of America’s greatest works of literature and their contributions
to the American culture from 1865 to present. Emphasizes the relationship
between literary and intellectual history. CSU/UC

English 246
Survey of Chicano Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101/101H.
Examines American literature by and about Chicanos. Emphasizes the
relationships between various works and the Chicanos place in American
society/culture. CSU/UC

English 270
Children’s Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101/101H.
A study of literature for children, emphasizing the history, trends,
issues, and evaluation of all major genres: picture books, poetry, drama,
literature, non-fiction, and fiction, including full-length works. CSU

English 271
Survey of World Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101/101H.
Survey of selections from world masterpieces from the beginnings of
writing through the 1600’s. Literary works studied in historical context
for artistic form, their influence on their culture and others, and general
contribution to understanding human experience. CSU/UC

English 272
Survey of World Literature
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101/101H.
Survey of world literary masterworks since the Renaissance studied for
artistic form, cultural influence, and contributions to modern and
contemporary thought. CSU/UC

English 278
Survey of Literature by Women
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: English 101/101H.
An historical survey of literature by women. Will include short stories,
novels, plays, poetry, and non-fiction. CSU/UC

MATHEMATICS (MATH)

Mathematics 150
Calculus for Biological, Management and
Social Sciences
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 140 or
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. CSU/UC

Mathematics 180
Analytic Geometry and Calculus
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 170 or
equivalent skills as measured by 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. CSU/UC (C-ID)

Mathematics 180H
Honors Analytic Geometry and Calculus
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 170 or
equivalent skills as measured by Math
Level 4 Exam and a course equivalent to Mathematics 170 and a high school or
college GPA of 3.0 or above.
An in-depth honors level study of
limits and continuity, derivatives and
integrals of algebraic, trigonometric,
and transcendental functions with the
emphasis on theory and challenging
problems. Applications include
extrema tests, related rates and areas.
CSU/UC

Mathematics 185
Analytic Geometry and Calculus
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 180/180H.
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.
CSU/UC (C-ID)

Mathematics 219
Statistics and Probability
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 080 or 081 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 219H.) CSU/UC

Mathematics 219H
Honors Statistics and Probability
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 080 or 081 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, 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
Social Science 219H.) CSU/UC
Mathematics 280
Intermediate Calculus
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 185.
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. **CSU/UC**

Mathematics 287
Introduction to Linear Algebra and Differential Equations
Unit(s): 5.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 280.
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. **CSU/UC**

Mathematics 290
Linear Algebra
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 280.
Systems of linear equations, matrices, determinants, Euclidean and abstract vector spaces, linear transformations, eigenvalues and eigenvectors, applications of linear algebra, proofs of course concepts. **CSU/UC (C-ID)**

Mathematics 295
Beginning Differential Equations
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 280
Recommended Preparation: Completion of or concurrent enrollment in Mathematics 290.
Introduction to the theory, techniques and applications of ordinary differential equations, first and second order ODEs, linear systems of ODEs, infinite series, Laplace transforms; matrix solutions and eigenvalues; linear independence, and numerical methods. **CSU/UC (C-ID)**

PHILOSOPHY (PHIL)

Philosophy 110
Critical Thinking
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: Mathematics 185/180H.
College level critical thinking and writing. Promotes rational 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. **CSU/UC**

Philosophy 110H
Honors Critical Thinking
Unit(s): 4.0
Class Hours: 64 Lecture total.
Prerequisite: English 101/101H and a high school or college GPA of 3.0 or above.
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. **CSU/UC**

Philosophy 111
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. **CSU/UC**

PHYSICS (PHYS)

Physics 217
Engineering Physics I
Unit(s): 4.0
Class Hours: 48 Lecture total, 48 Laboratory total.
Prerequisite: Mathematics 180/180H.
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. **CSU/UC (C-ID)**

Physics 227
Engineering Physics II
Unit(s): 4.0
Class Hours: 48 Lecture total, 48 Laboratory total.
Prerequisite: Physics 217 and Mathematics 185.
Introduces the basic principles of electricity and magnetism. The main topics are electrostatics, circuits, magnetism, electro-magnetic induction, and Maxwell's equations. This course is designed for students majoring in physical sciences and engineering. **CSU/UC (C-ID)**

Physics 237
Engineering Physics III
Unit(s): 4.0
Class Hours: 48 Lecture total, 48 Laboratory total.
Prerequisite: Physics 217 and Mathematics 185.
Introduces the basic principles of fluids, thermodynamics, sound, light, optics, and modern physics. This course is designed for students majoring in physical sciences and engineering. **CSU/UC (C-ID)**
Physics 250A
Physics for Scientists and Engineers I
Unit(s): 5.0
Class Hours: 64 Lecture total, 48 Laboratory total.
Prerequisite: Mathematics 180/180H
Recommended Preparation: Physics 109 or High School Physics.

Principles of classical mechanics including particle dynamics, forces, work, energy, momentum, rotational motion, equilibrium, harmonic motion, gravity and fluid dynamics. This course is designed for students majoring in physical sciences and engineering. Students who have successfully completed Physics 217 cannot enroll in Physics 250A. **CSU/UC (C-ID)**

Physics 250B
Physics for Scientists and Engineers II
Unit(s): 5.0
Class Hours: 64 Lecture total, 48 Laboratory total.
Prerequisite: Physics 250A and Mathematics 185.

Introduces the basic principles of thermodynamics, electricity and magnetism. The main topics are the laws of thermodynamics, kinetic theory of gases, electrostatics, circuits, magnetism, electro-magnetic induction, and Maxwell’s equations. This course is designed for students majoring in physical sciences and engineering. Students who have successfully completed Physics 227 cannot enroll in Physics 250B. **CSU/UC (C-ID)**

Physics 250C
Physics for Scientists and Engineers III
Unit(s): 5.0
Class Hours: 64 Lecture total, 48 Laboratory total.
Prerequisite: Physics 250B
Recommended Preparation: Mathematics 280.

Introduces the basic principles of mechanical waves, sound, light, geometrical and wave optics, special relativity and quantum mechanics. This course is designed for students majoring in physical sciences and engineering. Students who have successfully completed Physics 237 cannot enroll in Physics 250C. **CSU/UC (C-ID)**

**PSYCHOLOGY (PSYC)**

Psychology 100
Introduction to Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
An introduction to the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): research methods, biological bases of behavior, perception, learning, memory, cognition, emotion, motivation, development, personality, social, and abnormal psychology. **CSU/UC (C-ID)**

Psychology 100H
Honors Introduction to Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 or above.

Seminar-style, content-enriched course for honors students emphasizing application and critical analysis of psychological concepts. An introduction to the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): research methods, biological bases of behavior, perception, learning, memory, cognition, emotion, motivation, development, personality, social, and abnormal psychology. **CSU/UC**

Psychology 157
Introduction to Child Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Survey of human development from conception through adolescence. Covers major theories of development (cognition, perception, language, personality, etc.) and their application to parenting, teaching, and other interactions with children. (No credit if student has taken Human Development 107.) **CSU/UC**

Psychology 170
Multicultural Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Introduces students to important issues related to cultural diversity in the field of psychology. Major areas of psychology will be explored from a multicultural perspective, including research, mental health, social psychology, and identity development. Exploration of historically underrepresented populations in the U.S. will be emphasized. **CSU/UC**

Psychology 200
Introduction to Biological Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Explores relationships between physiological structures of the body and human behavior. Focuses on the organization and function of the brain, spinal cord, peripheral nervous system, glands, sensory and perceptual systems. Relates physiological functioning to motivated behavior, addiction, and psychological disorders. **CSU/UC**

Psychology 219
Introduction to Research Methods in Psychology
Unit(s): 3.0
Class Hours: 32 Lecture total, 48 Laboratory total.
Prerequisite: Psychology 100/100H and/or concurrent enrollment in: Social Science 219/219H or Mathematics 219/219H.

Emphasizes methods of study in psychology including: sound and ethical experimental design, analysis of variables contributing to experimental results, data treatment, and communicating findings. **CSU/UC**

Psychology 230
Psychology and Effective Behavior
Unit(s): 3.0
Class Hours: 48 Lecture total.
Application of theory and research in psychology to deal effectively with the adjustment demands of everyday life. Covers topics such as: interpersonal relationships, stress, health, time-management, and working. Includes exercises for increasing self-awareness, self-motivation, and self-management of everyday problems. **CSU/UC**
Psychology 250
Introduction to Abnormal Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: Psychology 100/100H.
Introduction to the commonly diagnosed psychological disorders. Includes psychophysiological disorders, anxiety, depression, substance abuse, sexual dysfunctions, schizophrenia, developmental, cognitive, and personality disorders. Emphasis is on identification, symptomatology, etiology, and methods of therapeutic intervention. **CSU/UC (C-ID)**

Social Science 219H
Honors Statistics and Probability
Unit(s): 4.0
Class Hours: 80 Lecture total.
Prerequisite: Mathematics 080 or 081 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 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.) **CSU/UC (C-ID)**

**SOCIOLOGY (SOC)**

Sociology 100
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. **CSU/UC (C-ID)**

Sociology 100H
Honors Introduction to Sociology
Unit(s): 3.0
Class Hours: 48 Lecture total.
Prerequisite: A high school or college GPA of 3.0 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. **CSU/UC (C-ID)**

Sociology 112
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. **CSU/UC (C-ID)**

Sociology 140
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. **CSU/UC (C-ID)**

Sociology 140H
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 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. **CSU/UC (C-ID)**

Sociology 240
Introduction to Social Psychology
Unit(s): 3.0
Class Hours: 48 Lecture total.
An exploration of the interlocking dynamics of psychology and sociology, examining the power of the situation, social interaction and social groups. Emphasized topics will include: aggression, prejudice, attraction, attitudes, group dynamics, self-development and social cognition. (Same as Psychology 240.) **CSU/UC**