



## ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS 2019-2020

### EL CAMINO COLLEGE COUNSELING DIVISION

The Associate in Science Degree is granted upon completion of **60 degree applicable units with a cumulative 2.0 GPA**; in addition, **courses taken for the major must have a C grade or higher in each course and courses taken for general education, must have a cumulative GPA of 2.0**. Complete requirements specified under Section A, B, and C.

**SECTION A: GENERAL EDUCATION REQUIREMENTS:** A student has three options as specified in the college catalog to complete the General Education

Requirements: **(COURSES MAY BE LISTED IN MULTIPLE AREAS IN GENERAL EDUCATION BUT MAY NOT BE USED IN MORE THAN ONE AREA)**

- **OPTION I** is required for students completing the El Camino College major as outlined in the catalog. Complete the specified number of units in categories 1 through 5 and the mathematics competency requirement in category 6.
- **OPTION II** is designed for students completing the CSU GE Breadth transfer requirements (refer to the ECC catalog, the guide sheets in counseling, or [www.assist.org](http://www.assist.org))
- **OPTION III** is designed for students completing the Intersegmental General Education Transfer Curriculum (IGETC) transfer requirements (refer to the ECC catalog, the guide sheets in counseling, or [www.assist.org](http://www.assist.org)).

#### GENERAL EDUCATION: OPTION I

1. <b>NATURAL SCIENCES:</b> (Minimum 3 semester units) <b>ANATOMY</b> 30, 32; <b>ANATOMY AND PHYSIOLOGY</b> 34A, 34B; <b>ANTHROPOLOGY</b> 1, 5; <b>ASTRONOMY</b> 12, 20, 20H, 25, 25H; <b>BIOLOGY</b> 8, 10, 10H, 11, 12, 15, 16, 17, 18, 101, 101H, 102, 102H, 103; <b>CHEMISTRY</b> 1A, 1B, 4, 4H, 7A, 7B, 20, 21A, 21B; <b>GEOGRAPHY</b> 1, 6, 9; <b>GEOLOGY</b> 1, 2, 3, 4, 6, 7, 15, 30, 32, 34, 36; <b>MICROBIOLOGY</b> 33; <b>OCEANOGRAPHY</b> 10, 10H; <b>PHYSICAL SCIENCE</b> 25; <b>PHYSICS</b> 1A, 1B, 1C, 1D, 2A, 2B, 3A, 3B, 11, 12; <b>PHYSIOLOGY</b> 31; <b>PSYCHOLOGY</b> 7
2. <b>SOCIAL AND BEHAVIORAL SCIENCES:</b> (Minimum 3 semester units: One course from A or B or C) <b>A. AMERICAN STUDIES</b> 7; <b>HISTORY</b> 101, 101H, 102, 102H, 105, 106, 108, 110, 111, 112, 122, 122H, 128; <b>SOCIAL SCIENCES</b> 103; <b>WOMEN'S STUDIES</b> 1 <b>B. POLITICAL SCIENCE</b> 1, 1H, 5, 6, 7 (same as Philosophy 117); <b>PHILOSOPHY</b> 117 (same as Political Science 7); <b>SOCIAL SCIENCES</b> 103 <b>C. ANTHROPOLOGY</b> 2, 3, 4, 6, 7, 8, 9, 11, 12; <b>BUSINESS</b> 22; <b>CHILD DEVELOPMENT</b> 103, 104; <b>COMMUNICATION STUDIES</b> 260 (formerly 14), 265 (formerly 5), 270 (formerly 11), 275; <b>ECONOMICS</b> 1, 1H, 2, 5; <b>ETHNIC STUDIES</b> 1, 3, 5; <b>FILM</b> 100; <b>GEOGRAPHY</b> 2, 5, 5H, 7; <b>HISTORY</b> 114, 129, 140, 141, 143, 145, 152, 154, 162, 163, 175, 176, 178, 183, 184, 190; <b>JOURNALISM</b> 12; <b>PHILOSOPHY</b> 117 (same as Political Science 7); <b>POLITICAL SCIENCE</b> 2, 3, 7 (same as Philosophy 117), 10, 10H; <b>PSYCHOLOGY</b> 2, 5, 5H, 7, 8, 10, 12, 15, 16, 17, 19, 25; <b>SOCIAL SCIENCES</b> 101, 103; <b>SOCIOLOGY</b> 101, 101H, 102, 104, 107, 108, 112, 113
3. <b>HUMANITIES:</b> (Minimum 3 semester units) <b>ARCHITECTURE</b> 104, 107, 108; <b>ART</b> 101, 102A, 102AH, 102B, 102C, 106, 109, 150 (same as Photography 150), 205A, 205B, 207, 208, 208H, 209; <b>CHINESE</b> 24; <b>COMMUNICATION STUDIES</b> 250 (formerly 8); <b>DANCE</b> 101, 103; <b>ENGLISH</b> 1B, 1BH, 12, 15A, 15B, 20, 21, 23A, 27, 28, 30, 31, 34, 35, 36, 39, 40A, 40B, 41B, 42, 43, 44, 48; <b>FASHION</b> 31; <b>FILM</b> 105, 110, 113, 114, 153, 154; <b>FOREIGN LANGUAGE</b> (CHINESE, FRENCH, GERMAN, ITALIAN, JAPANESE, SPANISH and Honors) course 1-6; <b>HUMANITIES</b> 1; <b>ITALIAN</b> 24; <b>JAPANESE</b> 25; <b>MUSIC</b> 101, 111, 112, 112H, 113, 116, 117, 215A, 215B; <b>PHILOSOPHY</b> 101, 101H, 103, 107, 111, 112, 113, 114, 115, 117 (same as Political Science 7), 120; <b>PHOTOGRAPHY</b> 150 (same as Art 150); <b>POLITICAL SCIENCE</b> 7 (same as Philosophy 117); <b>SIGN LANGUAGE/INTERPRETER TRAINING</b> 111, 112, 113, 114, 115, 130, 131; <b>SPANISH</b> 52A, 52B; <b>THEATRE</b> 103, 104, 113
4. <b>LANGUAGE AND RATIONALITY:</b> (Minimum of 6 semester units); One course from A; One course from B. <b>A. ENGLISH COMPOSITION:</b> (Minimum 3 units, course must be completed with a C grade or higher) <b>BUSINESS</b> 27, 28; <b>ENGLISH</b> 1A, 1AH; <b>JOURNALISM</b> 1 <b>B. COMMUNICATION AND ANALYTICAL THINKING:</b> (Minimum 3 units) <b>BUSINESS</b> 29; <b>COMMUNICATION STUDIES</b> 100 (formerly 1), 120 (formerly 4), 130 (formerly 12), 140 (formerly 3), 260 (formerly 14), 265 (formerly 5), 270 (formerly 11); <b>CIS</b> 13, 16, 80; <b>COMPUTER SCIENCE</b> 1, 7, 14; <b>ENGLISH</b> 1B, 1BH, 1C, 1CH; <b>JOURNALISM</b> 12; <b>MATH</b> 73, 80, 110, 111, 115, 116, 120, 130, 140, 150, 150H, 165, 170, 180, 190, 191, 210, 220, 270; <b>PHILOSOPHY</b> 105, 105H, 106; <b>PSYCHOLOGY</b> 3, 3H, 9A; <b>SOCIOLOGY</b> 109A; <b>SUPERVISION</b> 27
5. <b>HEALTH AND PHYSICAL EDUCATION:</b> (Minimum 3 semester units) <b>CONTEMPORARY HEALTH</b> 1, 5; <b>HUMAN DEVELOPMENT</b> 110, 115; <b>PE</b> 260, 275, 280; <b>PSYCHOLOGY</b> 2, 16; <b>NUTRITION</b> 11 <b>DANCE</b> 110, 120A, 120B, 130A, 130B, 140, 161, 162, 164, 165, 167, 168, 171A, 220A, 221, 230A, 240, 250, 261, 262, 265, 268, 271A; <b>PHYSICAL EDUCATION</b> 2, 3, 4, 5abc, 6abc, 7, 10A, 15abc, 16abc, 18, 20abc, 21abc, 35abc, 36abc, 45abc, 46abc, 47, 54, 57abc, 58abc, 60abc, 61abc, 65abc, 66abc, 70abc, 71abc, 74, 75abc, 76abc, 80abc, 81abc, 85abc, 86abc, 87abc, 105abc, 106abc, 110abc, 111abc, 115abc, 116abc, 120abc, 121abc, 132abc, 133abc, 135abc, 140abc, 204, 208, 221, 224, 233, 234ab, 240A, 240B, 240C, 245, 249, 250, 251, 253, 254, 255, 257, 258, 259, 266, 400, 401, 402, 404, 407, 409 (Students may be exempt by one of the following: 1) pass the Contemporary Health waiver exam; or 2) approval by petition for military service credit or 3) completion of Nursing 151 and 155).
6. <b>MATHEMATICS COMPETENCY:</b> Pass the Mathematics Competency Test equivalent to intermediate algebra (Math 73 or 80) or complete one of the following options (option choice depends on when student first enrolled at ECC and addresses student's catalog rights (see back of sheet and a counselor)): <b>Option 1:</b> Course must be completed with a C grade or better <b>MATH</b> 73, 80, 110, 111, 115, 116, 120, 130, 140, 150, 150H, 165, 170, 180, 190, 191, 210, 220, 270; <b>PSYCHOLOGY</b> 9A; <b>SOCIOLOGY</b> 109A <b>Option 2:</b> Students who enrolled at El Camino College prior to Summer 2009 and have maintained continuous enrollment have catalog rights and may fulfill the GE and major requirements for that catalog year by completing: <b>MATH</b> 40 or 41B or 43, or higher <b>Option 3:</b> Students who enrolled at El Camino College prior to Fall 2006 and have maintained continuous attendance have catalog rights and may fulfill the GE and major requirements for that catalog year by completing one of the following: <b>MATH</b> 40 or 41B or higher or one of the following courses: <b>BUSINESS</b> 15, <b>ELECTRONICS COMPUTER HARDWARE TECHNOLOGY</b> 20, <b>MACHINE TOOL TECHNOLOGY</b> 40, <b>TECHNICAL MATH</b> 1

ADDITIONAL INFORMATION ON THE SECOND PAGE (REVERSE). INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

**SECTION B: MAJOR REQUIREMENTS:** (Select either Option 1 or 2) Courses taken for the major must have a C grade or higher.

Option 1: Complete the set of courses specified after the heading, "El Camino College Major Requirements" in one major field section shown in the El Camino College catalog.

Option 2: \*\*Complete the lower division transfer courses for a four-year institution by selecting one of the following options:

- a. Complete courses equivalent to those shown as requirements in the transfer institution catalog, insofar as such courses are offered at El Camino College.
- b. Complete all required transfer major requirements on the guide sheets in the Counseling Division or all required courses on [www.assist.org](http://www.assist.org) for the public universities not listed on the guide sheet.

\*\*If the courses in preparation for the major at the transfer institution do not total a minimum of 18 units, students must complete the El Camino College major in the catalog in the area of interest and will be granted the Associate Degree in the El Camino College major.

**SECTION C: ELECTIVES:**

**El Camino College Major:** Electives are courses used to reach the total of 60 degree applicable units. If requirements A and B do not total 60 units, then additional units from A and/or B or other degree applicable courses should be taken to bring the total up to 60 units. Students may count up to 6 units of physical education as elective credit for graduation.

**Transfer Major:** If requirements A and B do not total 60 units, then additional units from A and/or B or other degree applicable courses should be taken to bring the total up to 60 units. (Students who decide to transfer to a CSU or UC, electives must be chosen from transferable courses. Students may only count 4 PE units for UC and 6 PE units for CSU to count toward the 60 units as transfer credit).

**CATALOG RIGHTS:** Students who have maintained continuous enrollment may choose to graduate under the catalog requirements in effect a) at the time enrollment began at El Camino College or b) in effect at the time of graduation from El Camino College. Continuous enrollment is defined as enrollment at El Camino College at least one semester (fall or spring), excluding summer and winter session, each academic year; courses must be noted on the transcript with a letter grade, a W, or a P/NP designation on the transcript; The catalog year used for major requirements must correspond to the general education pattern in effect for the same year.

**RESIDENCE REQUIREMENT:** A minimum of 12 degree applicable units must be successfully completed in the major and/or general education at El Camino College to receive the Associate Degree.

**SECOND DEGREE:** Students may receive both an Associate in Arts and an Associate in Science Degree upon completion of the specific general education and major requirements for each degree as stated in the catalog.

**DOUBLE MAJOR:** Students may receive a double major upon completion of the major requirements for the second major.

**GRADUATION:** Students must file an intent to graduate petition in the evaluations area located in the Admissions Office by the deadline published in the schedule of classes. Students planning to graduate from ECC should have official transcripts from other colleges attended sent directly to the Admissions/Records Office and meet with an academic counselor at ECC to ensure all requirements have been met before filing for graduation.

**EVALUATION OF DEGREE REQUIREMENTS:** Students who want to graduate from El Camino College with an associate degree will be evaluated according to the following conditions:

- 1) Students who have maintained continuous enrollment may choose to graduate under the catalog requirements in effect a) at the time enrollment began at El Camino College or b) in effect at the time of graduation at El Camino College. Continuous enrollment is defined as enrollment at El Camino College at least one semester (fall or spring), excluding summer and winter session, each academic year; courses must be noted on the transcript with a letter grade, a W, or a CR/NC designation on the transcript;
- 2) Residency requirement - A minimum of 12 degree applicable units from major and/or general education must be successfully completed at ECC;
- 3) Unit requirement - 60 degree applicable units are required, to include general education and major requirements;
- 4) General Education requirement - Coursework toward the degree must be completed with a cumulative GPA of 2.0 or higher in work at ECC and in work completed at all colleges;
- 5) English requirement must be completed with a grade of "C" or higher; Mathematics requirement must be completed with a grade of "C" or higher;
- 6) Major requirements must be completed with a minimum grade of "C" in all courses toward the major.

**FOREIGN COURSEWORK:** Students who have completed coursework outside of the United States may be able to apply course credits to the associate degree. Students need to have the coursework evaluated by an approved evaluation agency first, and then reviewed by an evaluator at El Camino College. Some courses may have to receive departmental approval. See a counselor for approved agencies.

**ASSOCIATE DEGREES FOR TRANSFER (ADT):** require the CSUGE or IGETC (with communication studies) completion (please see a counselor for the yellow grad petition)

**ASSOCIATE IN SCIENCE DEGREE MAJORS:**

AIR CONDITIONING & REFRIGERATION  
ASTRONOMY\*  
ARCHITECTURE\*  
AUTO COLLISION REPAIR/PAINTING  
AUTOMOTIVE TECHNOLOGY  
BIOLOGY\*  
BUSINESS\*  
CHEMISTRY\*  
COMPUTER AIDED DESIGN/DRAFTING  
COMPUTER INFORMATION SYSTEMS  
CONSTRUCTION TECHNOLOGY  
COSMETOLOGY  
ELECTRONICS & COMPUTER HARDWARE TECHNOLOGY  
ENGINEERING TECHNOLOGY  
ENVIRONMENTAL HORTICULTURE  
FASHION

FIRE AND EMERGENCY TECHNOLOGY  
GENERAL SCIENCE  
GEOGRAPHY\*  
GEOLOGY\*  
MACHINE TOOL TECHNOLOGY  
MANUFACTURING TECHNOLOGY  
MATHEMATICS\*  
NURSING  
PRE-ENGINEERING\*  
PRE-NURSING\*  
PHOTOGRAPHY  
PHYSICAL SCIENCE  
RADIOLOGIC TECHNOLOGY  
RESPIRATORY CARE  
WELDING

**\*Majors notated with an asterisk:** Students may use university major preparation requirements; if the requirements are less than 18 units, students must complete the ECC major