



**El Camino College**  
**PRE-ENGINEERING MAJOR**  
**UCLA SCHOOL OF ENGINEERING AND APPLIED SCIENCES**

**IGETC IS NOT RECOMMENDED FOR ENGINEERING MAJORS**

The Henry Samueli UCLA School of Engineering and Applied Science (HSSEAS) admits transfer students for the fall and may be accepted for winter and spring quarter (winter and spring is subject to change, check with a counselor or UCLA's Engineering website for admission details). Admission is very competitive. **The most important considerations for transfer admission** are completion of the required major preparatory courses and grade point average (GPA). Transfer applicants must have a minimum UC transferable GPA of at least 3.30 in order to be considered. In determining admission to the Engineering program, UCLA weighs the grades from math and science courses (especially Math & Physics) more heavily than grades from GE courses.

The average GPA of students admitted to HSSEAS are: Chemical (3.76); Computer Science & Engineering (3.79); Electrical (3.71); Computer Science (3.74); Mechanical (3.68); Civil (3.73); Aerospace (3.77); Materials (3.74). Please note that students who have received permission from ECC or from another institution to repeat a course in which a grade of "C" or higher had been earned, UCLA will only use the original grade for transfer.

**Students should concentrate on completing major preparation and meet minimum eligibility requirements (60 units to include the seven course breadth and major requirements) for admission to UCLA.** They do not require applicants to have completed the general education requirements in order to be admitted, although it is to the student's benefit to have completed 3 to 4 general education electives. Please see the reverse side of this sheet for a list of acceptable general education courses.

A maximum of 70 units can be transferred from community colleges. However, if a student has more than 70 transferable units, "subject credit" will be granted for the extra units. Furthermore, transferring to another four-year college or university prior to going to UCLA may cause the individual to exceed 70 acceptable units. This will trigger a review to see if the applicant could fulfill all remaining requirements in the major and general education within the maximum of 213 quarter units (142 semester units).

Identify the acronym of the engineering major from the list to identify courses needed for your major.

**AE:** Aerospace                      **CE:** Civil                                      **EE:** Electrical  
**BIO:** Bioengineering              **CSCI:** Computer Science                      **MA:** Material  
**CHEM:** Chemical                      **CSE:** Computer Science and Engineering                      **ME:** Mechanical

**REQUIRED MAJOR PREPARATION FOR ADMISSION:**

**English**

All majors                                      English 1A and 1B or 1C or Philosophy 105 or Psychology 3

**Mathematics**

All majors                                      Math 190, 191, 220, 270; (210 highly recommended for CSCI, CSE)

**Physics**

All majors                                      Physics 1A, 1C, 1D

**Chemistry**

AE, BIO, CHEM, CE, MA, ME                      Chemistry 1A-1B; (7A-7B highly recommended for BIO, CHEM)

EE    Chemistry 1A

**Biology**

BIO    Biology 101, 102

**Computer Science/Programming**

AE, BIO, CE, CHEM, MA, ME                      CS 1 (CS 30 preferred) or CS 3\*

EE    CS 1 (CS 2 and 30 preferred) CS 1 will meet admissions requirements but will have to take an additional CS course at UCLA

CSCI, CSE    CS 1 (CS 2 and 30 preferred) CS 1 will meet admissions requirements but will have to take an additional CS course at UCLA

**HSSEAS GENERAL EDUCATION REQUIREMENTS:**

HSSEAS requires the completion of one year of English prior to transfer but does not require completion of all the other general education requirements prior to transfer. However, students must meet minimum UC eligibility prior to transfer.

**Students should concentrate on completing major preparation and meet minimum eligibility requirements (60 units to include the seven course breadth (two UC transferable English Composition courses; UC transferable math; four courses from Arts and Humanities, Social and Behavioral Sciences, Physical and Biological Science) and major requirements) for admission to UCLA.**

A. English 1A, **and** one course from 1B or 1C

If a student's native language is not English, he or she will be required to take the English as a Second Language Placement Examination (ESLPE) upon entering UCLA unless a second, more advanced English composition course (such as English 1B or 1C) has been completed and grades of B or better have been earned in both courses.

B. Two (2) courses from Arts and Humanities (courses must come from two different subsections):

1) Literature and Cultural Analysis:

English 12, 15A, 20, 21, 31, 35, 36, 40A, 40B, 42, 43, 44; Japanese 25

2) Philosophical and Linguistic Analysis:

Philosophy 101, 103, 111, 120

3) Visual and Performance Arts:

Art 101, 102A, 102B, 102C, 106, 205A, 205B, 207; Music 111, 112, 215A, 215B; Theatre 103, 104

C. Two (2) courses from Society and Culture (one course from each subgroup):

1) Historical Analysis:

Anthropology 3; History 101 (formerly 1A), 102 (formerly 1B), 105 (formerly 18A), 106 (formerly 18B), 108 (formerly 9), 110 (formerly 16A), 111 (formerly 16B), 112 (formerly 17), 122, 140, 141, 143 (formerly 22), 154 (formerly 19), 162 (formerly 5A), 163 (formerly 5B), 165 (formerly 25), 175 (formerly 14A), 176 (formerly 14B), 177 (formerly 30)

2) Social Analysis:

Anthropology 2, 3; Geography 2, 5; Political Science 1, 2, 3, 5, 6, 10; Sociology 101, 104

D. One (1) course from Life Sciences:

Anatomy 30, 32; Anthropology 1; Biology 101, 102, 103, 8, 10, 11, 15, 17; Microbiology 33; Physiology 31; Psychology 7

Notes: 1. Life sciences requirement is automatically satisfied for Bioengineering majors.

Recommended Web sites:

The Henry Samueli School of Engineering and Applied Science: [www.seasoasa.ucla.edu](http://www.seasoasa.ucla.edu)

Articulation agreements for Engineering: [www.assist.org](http://www.assist.org)

GE Foundations courses: <http://cac.ucla.edu/wp-content/uploads/2016/03/elcamino2.pdf>

UCLA General Catalog: <http://catalog.registrar.ucla.edu/>

Important information for international applicants: <http://www.admissions.ucla.edu/prospect/intl.htm>

Online Admissions: [www.ucop.edu/pathways](http://www.ucop.edu/pathways)

\*Computer Science 3 and 10 are offered fall semester only; Computer Science 30 is offered spring semester only.