



# Engineering Transfer Guide

for

## El Camino College

effective dates: Fall 2008 - Summer 2009

The following courses will prepare El Camino College students for transfer into one of USC's engineering majors. This guide is based on the current *USC Catalogue* and the current *USC-El Camino College Articulation Agreement*. Although every attempt has been made to ensure the accuracy of the information found within this guide, the *USC Catalogue* and the *USC-El Camino College Articulation Agreement* should be considered the documents of authority. The program requirements listed in those two documents supersede any information that may be contained in this or any other publication of any school or department. USC reserves the right to change its policies, rules, regulations, requirements and course offerings at any time.

### Admission Requirements

To be competitive for transfer admission to the USC Viterbi School of Engineering, students should: (1) complete a minimum of 30 transferable semester units, (2) earn a strong "B" or better average and (3) complete as many of the engineering core courses listed in this guide as possible. In general, students who have completed a greater number of engineering core courses will be more competitive for admission. USC does not require completion of general education (GE) requirements for admission, but every student must complete the writing requirement prior to transfer. **Please contact a Viterbi transfer counselor via phone at (213) 740-4530 or (800) 526-3347 or via email at [viterbi.admission@usc.edu](mailto:viterbi.admission@usc.edu) to schedule a one-on-one coursework advisement appointment. During this appointment, you will receive your own personalized transfer coursework plan.**

### How to Use this Guide

- 1) Identify the acronym of the engineering major you wish to pursue from the following list:  

<b>AE</b> = Aerospace	<b>BMEL</b> = Biomedical (Mechanical)	<b>EE</b> = Electrical
<b>ASTE</b> = Astronautical	<b>CHE</b> = Chemical	<b>ENE</b> = Environmental
<b>BME</b> = Biomedical	<b>CE</b> = Civil	<b>ISE</b> = Industrial & Systems
<b>BMEC</b> = Biomedical (Biochemical)	<b>CSCI</b> = Computer Science	<b>ME</b> = Mechanical
<b>BMEN</b> = Biomedical (Electrical)	<b>CECS</b> = Computer Engineering	
- 2) Refer to this acronym throughout this guide to identify the courses needed for your major. (N/O=course not offered at El Camino College)
- 3) Note that courses linked together by plus signs (+) must be transferred together in order to be equivalent to a USC course(s).
- 4) Remember, the courses listed in this guide are not pre-requisites for admission. However, the more engineering core courses you complete, the more competitive you will be for admission.

### Engineering Core Courses

#### Writing Requirement

All Majors (Choose 1 course.)

ENGL 1B or 1C

#### Mathematics

AE, ASTE, BME, BMEC, BMEN, BMEL, CHE, CE, EE, ENE, ME  
CSCI, CECS, ISE  
CSCI (Games), CSCI/Business

MATH 190, 191, 220, 270  
MATH 190, 191, 220, 270  
MATH 190, 191, 270

#### Physics

AE, ASTE, BMEN, BMEL, EE, ME  
BME, BMEC, CHE, CE<sup>1</sup>, CECS<sup>2</sup>, ENE, ISE  
CSCI

PHYS 1A+1B, 1B+1C, 1D  
PHYS 1A+1B, 1B+1C  
Please consult with a Viterbi transfer counselor.

<sup>1</sup>CE - Certain majors within CE require an additional physics course. Please consult with a Viterbi transfer counselor for more specific advisement.

<sup>2</sup>CECS - CECS majors may need to take an additional physics course. Please consult with a Viterbi transfer counselor for more specific advisement.

#### Chemistry

AE, ASTE, CE<sup>1</sup>, CECS<sup>2</sup>, EE, ISE, ME  
BMEN, BMEL, CHE<sup>3</sup>, ENE<sup>4</sup>  
BME, BMEC  
CSCI

CHEM 1A  
CHEM 1A, 1B, 7A  
CHEM 1A, 1B, 7A, 7B  
Please consult with a Viterbi transfer counselor.

<sup>1</sup>CE - Certain majors within CE require an additional chemistry course. Please consult with a Viterbi transfer counselor for more specific advisement.

<sup>2</sup>CECS - CECS majors may not need to take CHEM 1A. Please consult with a Viterbi transfer counselor for more specific advisement.

<sup>3</sup>CHE - Students majoring specifically in general CHE, CHE (Petrol.) or CHE (Polymer Sci.) may also take CHEM 7B to satisfy a technical elective.

<sup>4</sup>ENE - Students majoring specifically in ENE (Biotech.) should also take CHEM 7B.

#### Biology

BME, BMEC  
BMEN, BMEL, ENE<sup>1</sup>  
All Other Majors:

BIOL 101, 102  
BIOL 102  
None

<sup>1</sup>ENE - Students majoring specifically in ENE (Biotech.) are not required to take BIOL 102.

## General Education (GE) Requirements

Remember, USC does not require completion of GE requirements for admission.

### Foreign Language Requirement

CSCI  
All Other Majors

Level III of the same foreign language  
None

### Category Requirements

All Majors

Four courses as outlined below:

#### Category I: Western Cultures and Traditions (Choose 1 course.)

ART	2; 3
HISTORY	5A
PHILOSOPHY	10; 11

#### Category II: Global Cultures and Traditions (Choose 1 course.)

ANTHROPOLOGY	2; 6; 7; 8
ART	5A; 5B; 7; 9
HISTORY	9; 12A; 12B; 14A; 14B; 30

#### Category IV: (Choose 1 additional course from Categories I or II.)

#### Category V: Arts and Letters (Choose 1 course.)

ARCHITECTURE	104
ART	4; 108
ENGLISH	10; 11; 12; 15A; 15B; 18; 20; 21; 23; 28; 29; 30; 31; 34; 35; 36; 39; 40A; 40B; 41A; 41B; 42; 43; 44; 47
FILM/VIDEO	1
FRENCH	35
MUSIC	13; 15A; 15B
THEATRE	4

(Note that Category VI: Social Issues must be completed at USC after transfer.)

### Diversity Requirement

All Majors (Choose 1 course.)

AMERICAN STUDIES	3
HISTORY	16B; 17; 27; 32
POLITICAL SCIENCE	5
SOCIOLOGY	101; 107
WOMEN'S STUDIES	1

### Notes and Restrictions

No more than 4 units of GE coursework may be taken on a "pass"/"no pass" basis.

A single course may be used to fulfill both a GE requirement and the diversity requirement.

Once you enroll at USC, you will not be able to transfer future GE courses; your remaining GE's will have to be completed at USC.