



# Engineering Transfer Guide

for  
**Citrus College**  
*effective dates: Fall 2008 - Summer 2009*

The following courses will prepare Citrus College students for transfer into one of USC's engineering majors. This guide is based on the current *USC Catalogue* and the current *USC-Citrus 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-Citrus 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

- 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	
- Refer to this acronym throughout this guide to identify the courses needed for your major. (N/O=course not offered at Citrus College)
- Note that courses linked together by plus signs (+) must be transferred together in order to be equivalent to a USC course(s).
- 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 102 or 103 or 103H or 104 OR PHIL 109

### Mathematics

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

MATH 190, 191, 210, 211  
MATH 190, 191, 210, N/O  
MATH 190, 191, N/O

### Physics

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

PHYS 201+203, 201+202, 203  
PHYS 201+203, 201+202  
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 111 or 114  
CHEM 111 or 114, 112 or 115, 210+211L  
CHEM 111 or 114, 112 or 115, 210+211L, 220+221L  
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 111 or 114. 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 220+221L to satisfy a technical elective.

<sup>4</sup>ENE - Students majoring specifically in ENE (Biotech.) should also take CHEM 220+221L.

### Biology

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

BIOL 124+125, 124+125  
BIOL 124+125  
None

<sup>1</sup>ENE - Students majoring specifically in ENE (Biotech.) are not required to take BIOL 124+125.

## General Education (GE) Requirements

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

### Foreign Language Requirement

CSCI

Level III of the same foreign language

All Other Majors

None

### Category Requirements

All Majors

Four courses as outlined below:

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

ART	101; 102; 103; 104
ENGLISH	271; 272
HUMANITIES	101; 101H; 102

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

ANTHROPOLOGY	210; 210H; 214
ART	106; 207
HISTORY	117

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

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

ART	100; 105; 199; 200; 201; 206
DANCE	201
ENGLISH	251; 252; 261; 262; 291; 291H; 294; 298
MUSIC	110; 111; 114; 218; 110H; 111H; 114H
THEATER ARTS	200

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

### Diversity Requirement

All Majors (Choose 1 course.)

ANTHROPOLOGY	216
ENGLISH	290
HISTORY	112
PSYCHOLOGY	226
SOCIOLOGY	118; 122; 201; 201H; 216

### 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.