

ORANGE COAST COLLEGE TRANSFER CURRICULUM GUIDE

ENGINEERING

LOWER DIVISION MAJOR REQUIREMENTS FOR TRANSFER

The following courses at OCC should be taken prior to transfer. Courses not offered at OCC will need to be taken after transfer. Four-year colleges and universities often make changes in their requirements for majors. The information contained in this guide is based on the most recent information available from the four-year school and does not constitute an official agreement. Recent updates to this Guide can be found on the Transfer Center website at: www.occ.cccd.edu/departments/studentsvcs/transferctr

At this time, please refer to www.assist.org for the current major preparation articulation between Orange Coast College and University of California and California State University. The updated major sheet guides will be available at the end of fall, 2009.

UNIVERSITY OF SOUTHERN CALIFORNIA**BACHELOR OF SCIENCE IN ENGINEERING**

Options: Aerospace, Applied Mechanics, Astronautical, Biomedical, Biomedical/Imaging and Telemedicine, Chemical, Civil, Computer, Electrical, Environmental, Industrial and Systems, Mechanical

General Education Requirement:

Six courses with one from each area:

- I. Cultures and Civilization I*
- II. Cultures and Civilizations II*
- III. Scientific Principles*
- IV. Investigations in Science and Technology**
- V. Studies in Literature*
- VI. Social Issues**

Composition Requirement:

ENGL 100 and 101(or 101H) or 102(or 102H)

Diversity Requirement:

See USC GE Agreement for courses which meet this requirement.

Mathematics Requirement:

Either MATH 180(or 180H) & 185(or 185H) or 182H, MATH 280(or 280H),

Physics Requirement+:

PHYS 185, 280 and 285

+For students majoring in computer science, either BIOL 181(or 181H) & 185 or 181(or 181H) & 182/182L, 183/183L or CHEM 180 & 185, may be substituted.

Major Requirement:**For Aerospace**

CHEM 180, MATH 285(or 285H)

For Applied Mechanics

CHEM 180

For Astronautical

MATH 285(or 285H), CHEM 180

For Biomedical

BIOL 181(or 181H) & 185 or 181(or 181H) & 182/182L, 183/183L, CHEM 180, 185, 220/221, 225/226, MATH 285(or 285H)

For Biomedical/Biochemical

BIOL 181(181H) & 185 or 181(or 181H) & 182/182L, 183/183L, CHEM 180, 185, 220/221, 225/226, MATH 285(or 285H)

For Biomedical/Electrical

BIOL 181(or 181H) & 185 or 181(or 181H) & 182/182L, 183/183L CHEM 180, 185, 220/221, MATH 285(or 285H)

For Biomedical/Mechanical

BIOL 181(or 181H) & 185 or 181(181H) & 182/182L, 183/183L, CHEM 180, 185, 220/221, MATH 285(or 285H)

For Chemical

CHEM 180, 185, 220/221, 225/226+, MATH 285(or 285H),

+Only required by students majoring specifically in General Chemical, Petroleum or Polymer Science.

For Civil

CHEM 180, 185+, MATH 285(or 285H)

+Only required by students majoring specifically in General Civil, Environmental

For Computer Engineering

MATH 235

For Electrical (CSCI)

CHEM 180, MATH 285(or 285H)

For Environmental

BIOL 220(or 220H), CHEM 180, 185, 220/221, 225/226+, MATH 285(or 285H)

+Only required by students majoring specifically in Bio Tech

For Industrial and Systems

CHEM 180, MATH 235

For Mechanical (AME)

CHEM 180, MATH 285(or 285H)

*See USC GE Agreement for specific courses.

**Students must take these courses at USC.