## **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

To: University of California, Irvine 2022-2023 General Catalog, Quarter

From: De Anza College 2022-2023 General Catalog, Quarter

### Aerospace Engineering, B.S.

#### **GENERAL INFORMATION**

Admission to the Henry Samueli School of Engineering is highly competitive. The most important selection criteria is the completion of the required major preparation courses and academic performance.

#### Required for admission:

Students must have a cumulative UC transferable GPA of 3.0 (3.4 for TAG). Students must earn a grade of C or better in all listed major preparation courses while maintaining a cumulative GPA of 3.0 in the following required courses.

- Single Variable Calculus I (C-ID MATH 210 or MATH 211)
- Single Variable Calculus II (C-ID MATH 220 or MATH 221) or Single Variable Calculus Sequence (C-ID MATH 900S or 910S)
- Multivariable Calculus (C-ID MATH 230)
- Ordinary Differential Equations (C-ID MATH 240) or Differential Equations and Linear Algebra (C-ID MATH 910S)
- Introduction to Linear Algebra (C-ID MATH 250) or Differential Equations and Linear Algebra (C-ID MATH 910S)
- Calculus-Based Physics for Scientists and Engineers: A (C-ID PHYS 205)
- Calculus-Based Physics for Scientists and Engineers: B (C-ID PHYS 210)
- Calculus-Based Physics for Scientists and Engineers: C (C-ID PHYS 215)
   or Calculus-Based Physics for Scientists and Engineers: ABC (C-ID PHYS 200S)
- General Chemistry for Science Majors I, with Lab (C-ID CHEM 110) or General Chemistry for Science Majors Sequence A (C-ID CHEM 120S)
- Programming and Problem Solving in MATLAB preferred (C-ID ENGR 220)
   or Introduction to Programming Concepts and Methodologies for Engineers (C-ID ENGR 120)

#### Recommended for admission/Time to degree:

The following courses are not required for admission, however the degree cannot be completed in two years without them:

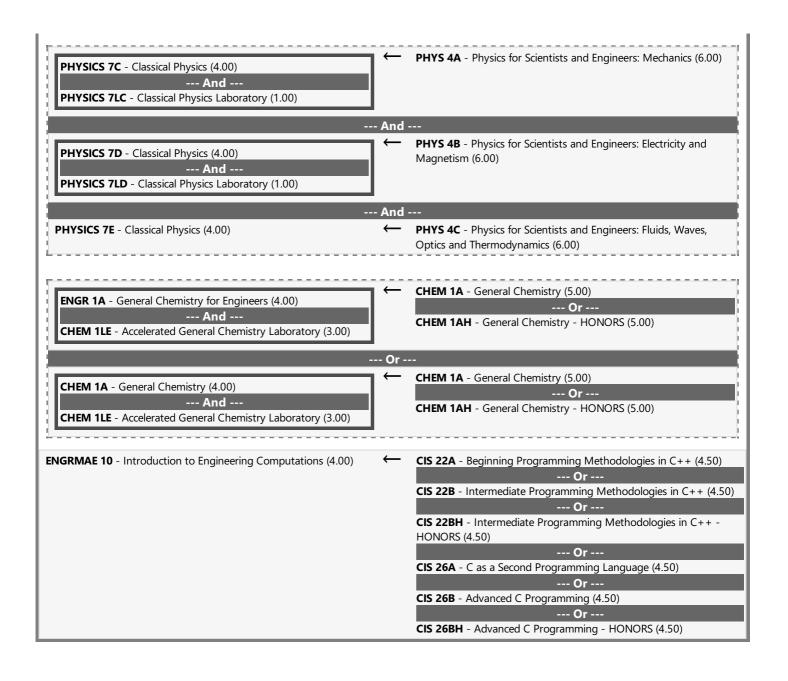
- Statics (C-ID ENGR 130)
- Circuit Analysis (C-ID ENGR 260) + Circuit Analysis Lab (C-ID ENGR 260L)
- Materials Science and Engineering (C-ID ENGR 140) or Materials Science and Engineering (C-ID ENGR 140B)

For information regarding the AP and IB examination credit policies refer to the UCI General Catalogue

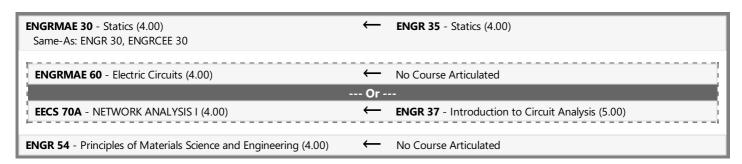
For information regarding the UC Irvine Transfer Admission Guarantee program please visit <u>TAG</u>

### **MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER**

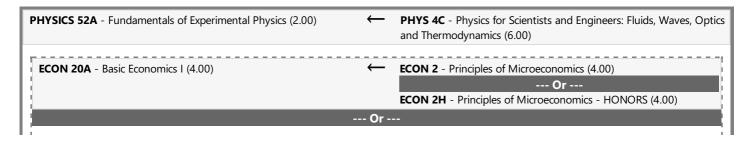
MATH 2A - Single-Variable Calculus (4.00)	$\leftarrow$	MATH 1A - Calculus (5.00)
		Or
		MATH 1AH - Calculus - HONORS (5.00)
MATH 2B - Single-Variable Calculus (4.00)	$\leftarrow$	MATH 1B - Calculus (5.00)
		Or
		MATH 1BH - Calculus - HONORS (5.00)
MATH 2D - Multivariable Calculus (4.00)	←	<b>MATH 1D</b> - Calculus (5.00)
		Or
		MATH 1DH - Calculus - HONORS (5.00)
MATH 2E - Multivariable Calculus (4.00)	<b>←</b>	<b>MATH 1D</b> - Calculus (5.00)
		Or
		MATH 1DH - Calculus - HONORS (5.00)
MATH 3A - Introduction to Linear Algebra (4.00)	<b>←</b>	MATH 2B - Linear Algebra (5.00)
		Or
		MATH 2BH - Linear Algebra - HONORS (5.00)
MATH 3D - Elementary Differential Equations (4.00)	<b>←</b>	MATH 2A - Differential Equations (5.00)
		Or
		MATH 2AH - Differential Equations - HONORS (5.00)



### MAJOR PREPARATION COURSES NECESSARY TO GRADUATE IN TWO YEARS



### **ADDITIONAL MAJOR REQUIREMENTS**



ECON 23 - Basic Economics for Engineers (4.00)	<b>—</b>	No Course Articulated
ENGRMAE 80 - Dynamics (4.00) Same-As: ENGR 80, ENGRCEE 80	<b>←</b>	No Course Articulated
ENGRMAE 91 - Introduction to Thermodynamics (4.00)	$\leftarrow$	No Course Articulated

# ADDITIONAL MAJOR ELECTIVES

Choose one additional approved Science course (or lecture/lab ANTH 1 - Physical Anthropology (4.00) combination) for Aerospace Engineering: --- And ---ANTH 1L - Physical Anthropology Laboratory (1.00) ANTH 1H - Physical Anthropology - HONORS (4.00) --- And ---ANTH 1L - Physical Anthropology Laboratory (1.00) ASTR 4 - Solar System Astronomy (5.00) --- And ---ASTR 15L - Astronomy Laboratory (1.00) ASTR 10 - Stellar Astronomy (5.00) --- And ---ASTR 15L - Astronomy Laboratory (1.00) **BIOL 6A** - Form and Function in the Biological World (6.00) **BIOL 6AH** - Form and Function in the Biological World - HONORS **BIOL 6B** - Cell and Molecular Biology (6.00) **BIOL 6C** - Ecology and Evolution (6.00) **BIOL 6CH** - Ecology and Evolution - HONORS (6.00) **BIOL 10** - Introductory Biology (5.00) **BIOL 10H** - Introductory Biology - HONORS (5.00) **BIOL 11** - Human Biology (5.00) BIOL 13 - Marine Biology (5.00) **BIOL 15** - California Ecology (5.00) **BIOL 26** - Introductory Microbiology (6.00) **BIOL 40C** - Human Anatomy and Physiology (5.00) **CHEM 1A** - General Chemistry (5.00) CHEM 1AH - General Chemistry - HONORS (5.00) CHEM 1B - General Chemistry (5.00) **CHEM 1BH** - General Chemistry - HONORS (5.00) **CHEM 1C** - General Chemistry and Qualitative Analysis (5.00) CHEM 1CH - General Chemistry and Qualitative Analysis - HONORS CHEM 30B - Introduction to General, Organic, and Biochemistry II (5.00)**ESCI 1** - Environmental Science (4.00) --- And ---ESCI 1L - Environmental Science Lab (1.00) ESCI 19 - Environmental Biology (5.00) ESCI 60 - Restoration Ecology (5.00) **GEO 1** - Physical Geography (4.00) GEO 10 - World Regional Geography (4.00) MET 10 - Weather and Climate Processes (5.00) --- And ---MET 10L - Meteorology Laboratory (1.00) MET 10 - Weather and Climate Processes (5.00) --- And ---MET 20L - Climate Change Laboratory (1.00) PHYS 2A - General Introductory Physics (5.00) PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00) PHYS 10 - Concepts of Physics (5.00) **ENGR 7A** - Introduction to Engineering I (2.00) No Course Articulated

And ---

No Course Articulated

**ENGR 7B** - Introduction to Engineering II (2.00)

## **END OF AGREEMENT**