## **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

## Mechanical 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 2 semester/quarters of 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 (C-ID ENGR 220) preferred 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:

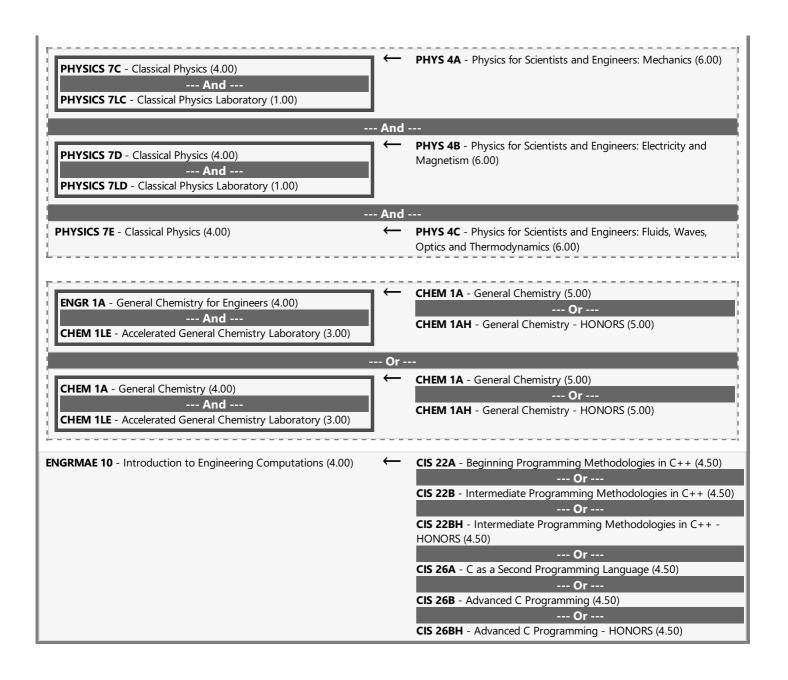
- Statics (C-ID ENGR 130)
- Engineering Graphics (C-ID ENGR 150)
- Materials Science and Engineering (C-ID ENGR 140)
- Circuit Analysis (C-ID ENGR 260) + Circuit Analysis Lab (C-ID ENGR 260L)

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

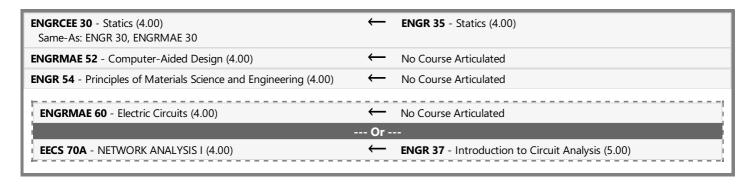
For information regarding the UC Irvine Transfer Admission Guarantee program please visit TAG

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

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



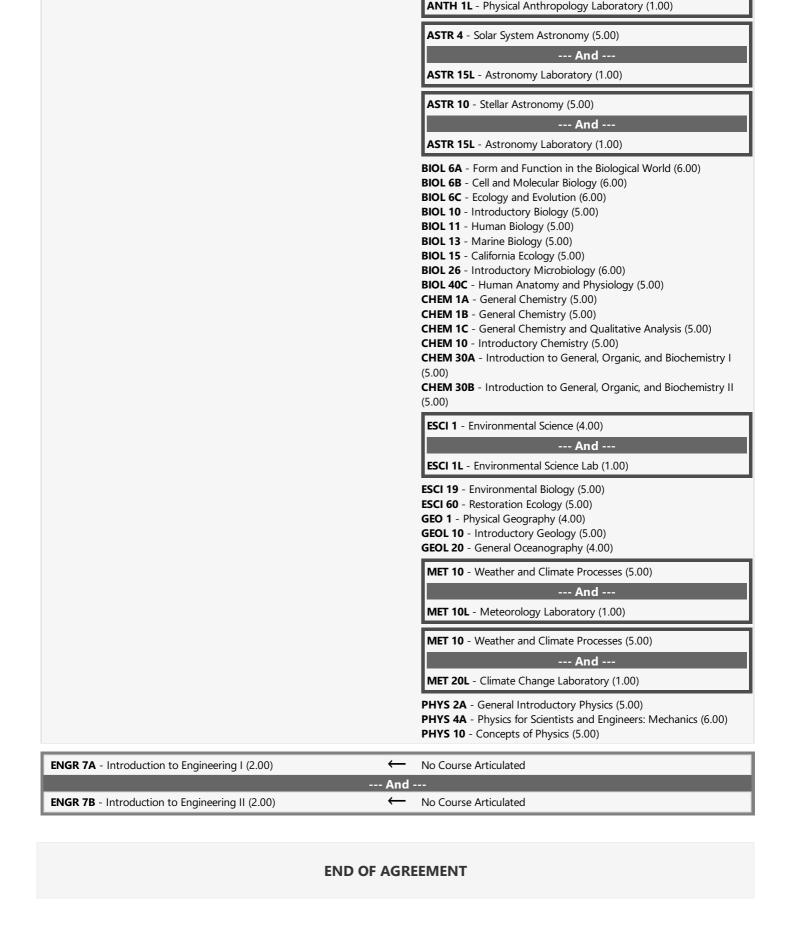
## MAJOR PREPARATION COURSES NECESSARY TO GRADUATE IN TWO YEARS



### **ADDITIONAL MAJOR REQUIREMENTS**

ECON 20A - Basic Economics I (4.00)	<b>←</b>	ECON 2 - Principles of Microeconomics (4.00) Or	
		ECON 2H - Principles of Microeconomics - HONORS (4.00)	
Or			
ECON 23 - Basic Economics for Engineers (4.00)	<u>←</u>	No Course Articulated	
ENGRMAE 80 - Dynamics (4.00) Same-As: ENGR 80, ENGRCEE 80	<b>←</b>	No Course Articulated	
<b>ENGRMAE 91</b> - Introduction to Thermodynamics (4.00)	←	No Course Articulated	

# ADDITIONAL MAJOR ELECTIVES



**ANTH 1** - Physical Anthropology (4.00)

ANTH 1L - Physical Anthropology Laboratory (1.00)

ANTH 1H - Physical Anthropology - HONORS (4.00)

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Choose one additional approved Science course (or lecture/lab

combination) for Mechanical Engineering: