

# 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

## Biomedical Engineering: Pre-Medical, 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 Sequence A (C-ID CHEM 120S)
- Organic Chemistry for Science Majors Sequence A (C-ID CHEM 160S)
- 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 course is not required for admission, however the degree cannot be completed in two years without them:**

- Engineering Graphics (C-ID ENGR 150)

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 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)

**PHYSICS 7C** - Classical Physics (4.00)

--- And ---

**PHYSICS 7LC** - Classical Physics Laboratory (1.00)



**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

--- And ---

**PHYSICS 7D** - Classical Physics (4.00)  
--- And ---  
**PHYSICS 7LD** - Classical Physics Laboratory (1.00)

← **PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

--- And ---

**PHYSICS 7E** - Classical Physics (4.00)

← **PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

**CHEM 1A** - General Chemistry (4.00)  
--- And ---  
**CHEM 1B** - General Chemistry (4.00)  
--- And ---  
**CHEM 1C** - General Chemistry (4.00)  
--- And ---  
**CHEM 1LC** - General Chemistry Laboratory (3.00)  
--- And ---  
**CHEM 1LD** - General Chemistry Laboratory (3.00)

←

**CHEM 1A** - General Chemistry (5.00)  
--- And ---  
**CHEM 1B** - General Chemistry (5.00)  
--- And ---  
**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00)

--- Or ---

**CHEM 1AH** - General Chemistry - HONORS (5.00)  
--- And ---  
**CHEM 1BH** - General Chemistry - HONORS (5.00)  
--- And ---  
**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00)

**CHEM 51A** - Organic Chemistry (4.00)  
--- And ---  
**CHEM 51B** - Organic Chemistry (4.00)  
--- And ---  
**CHEM 51LB** - Organic Chemistry Laboratory (3.00)  
--- And ---  
**CHEM 51C** - Organic Chemistry (4.00)  
--- And ---  
**CHEM 51LC** - Organic Chemistry Laboratory (3.00)

←

**CHEM 12A** - Organic Chemistry (5.00)  
--- And ---  
**CHEM 12B** - Organic Chemistry (5.00)  
--- And ---  
**CHEM 12C** - Organic Chemistry (5.00)

**BME 60B** - Engineering Analysis/Design: Data Analysis (4.00)

← No Course Articulated

## MAJOR PREPARATION COURSES NECESSARY TO GRADUATE IN TWO YEARS

**BME 60C** - Engineering Analysis/Design: Computer-Aided Design (4.00)

← No Course Articulated

## ADDITIONAL MAJOR REQUIREMENTS

**BIO SCI 97** - Genetics (4.00)

← No Course Articulated

**BIO SCI 98** - Biochemistry (4.00)

← No Course Articulated

**BIO SCI 99** - Molecular Biology (4.00)

← No Course Articulated

**BIO SCI 100** - Scientific Writing (3.00)

← No Course Articulated

**BME 1** - Introduction to Biomedical Engineering (3.00)

← No Course Articulated

**BME 60A** - Engineering Analysis/Design: Data Acquisition (4.00)

← No Course Articulated

END OF AGREEMENT