

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 [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)

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)

ENGR 1A - General Chemistry for Engineers (4.00)

--- And ---

CHEM 1LE - Accelerated General Chemistry Laboratory (3.00)

← **CHEM 1A** - General Chemistry (5.00)

--- Or ---

CHEM 1AH - General Chemistry - HONORS (5.00)

--- Or ---

CHEM 1A - General Chemistry (4.00)

--- And ---

CHEM 1LE - Accelerated General Chemistry Laboratory (3.00)

← **CHEM 1A** - General Chemistry (5.00)

--- Or ---

CHEM 1AH - General Chemistry - HONORS (5.00)

ENGRMAE 10 - Introduction to Engineering Computations (4.00)

← **CIS 22A** - Beginning Programming Methodologies in C++ (4.50)

--- Or ---

CIS 22B - Intermediate Programming Methodologies in C++ (4.50)

--- Or ---

CIS 22BH - Intermediate Programming Methodologies in C++ - HONORS (4.50)

--- Or ---

CIS 26A - C as a Second Programming Language (4.50)

--- Or ---

CIS 26B - Advanced C Programming (4.50)

--- Or ---

CIS 26BH - Advanced C Programming - HONORS (4.50)

MAJOR PREPARATION COURSES NECESSARY TO GRADUATE IN TWO YEARS

ENGRMAE 30 - Statics (4.00)

Same-As: ENGR 30, ENGRCEE 30

← **ENGR 35** - Statics (4.00)

ENGRMAE 60 - Electric Circuits (4.00)

← No Course Articulated

--- Or ---

EECS 70A - NETWORK ANALYSIS I (4.00)

← **ENGR 37** - Introduction to Circuit Analysis (5.00)

ENGR 54 - Principles of Materials Science and Engineering (4.00)

← No Course Articulated

ADDITIONAL MAJOR REQUIREMENTS

PHYSICS 52A - Fundamentals of Experimental Physics (2.00)

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

ECON 20A - Basic Economics I (4.00)

← **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)	← No Course Articulated
ENGRMAE 80 - Dynamics (4.00) Same-As: ENGR 80, ENGRCEE 80	← No Course Articulated
ENGRMAE 91 - Introduction to Thermodynamics (4.00)	← No Course Articulated

ADDITIONAL MAJOR ELECTIVES

Choose one additional approved Science course (or lecture/lab combination) for Aerospace Engineering:



ANTH 1 - Physical Anthropology (4.00)

--- 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 (6.00)

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 (5.00)

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 ---

ENGR 7B - Introduction to Engineering II (2.00)



No Course Articulated

END OF AGREEMENT