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

Earth System Science, B.S.

GENERAL INFORMATION

Preference will be given to junior-level applicants with the highest grades overall who have satisfactorily completed the following **required** courses.

Required for admission:
Students must have a cumulative UC transferable GPA of 3.0 (3.4 for TAG) and a cumulative GPA of 3.0 in required courses

- One year of single-variable calculus or one semester/quarter of single-variable calculus *and* one semester/quarter of statistics
- One year of **either** general chemistry with laboratory (preferred), **or** one year of calculus-based physics with laboratory

Students may specialize in Atmospheric Science, Oceanography, or Terrestrial Ecosystems. Optional concentration in Geosciences Education with Secondary Teaching Certification. Additional information is available at http://ps.uci.edu/undergraduates.

Students planning to pursue a single-subject secondary teaching credential in their major as an undergraduate should consider cross-enrolling into two foundational education courses through UCI DCE before transfer, while still enrolled at their community college, in order to remain eligible to graduate in two years after transfer. For more information about specific courses, the STEM teaching pathway, and cross-enrollment, please contact **UCI's CalTeach Program** for more details.

Important: Articulation of General Chemistry is based on the completion of the **entire** year. Students wishing information on course-to-course equivalencies (semester to quarter) should contact the Physical Sciences Student Affairs Office at: pssazot@uci.edu.

Students from community colleges that have no articulation for EARTHSS 1 may satisfy this requirement by completing any introductory Geology, Oceanography or Atmospheric Science course offered at their college.

NOTE: In fulfillment of the requirements below, a single course may be used only once.

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

For more 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)
--- Or ---		
STATS 7 - Basic Statistics (4.00)	←	**MATH 10** - Introductory Statistics (5.00) **--- Or ---** **MATH 10H** - Introductory Statistics - HONORS (5.00) **--- Or ---** **PSYC 15** - Statistics and Research Methods in Social Science (4.00) Same-As: SOC 15

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)
--- Or ---		
PHYSICS 3A - Basic Physics I (4.00) **--- And ---** **PHYSICS 3B** - Basic Physics II (4.00) **--- And ---** **PHYSICS 3LB** - Basic Physics Laboratory II (1.50) **--- And ---** **PHYSICS 3C** - Basic Physics III (4.00) **--- And ---** **PHYSICS 3LC** - Basic Physics Laboratory III (1.50)	←	**PHYS 2A** - General Introductory Physics (5.00) **--- And ---** **PHYS 2B** - General Introductory Physics (5.00) **--- And ---** **PHYS 2C** - General Introductory Physics (5.00)
--- Or ---		
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 7E - Classical Physics (4.00)	←	**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

ADDITIONAL APPROVED COURSES FOR THE MAJOR

EARTHSS 1 - Introduction to Earth System Science (4.00)	←	**MET 12** - Introduction to Climate Change (5.00)
EARTHSS 51 - Land Interactions (4.00)	←	No Course Articulated
EARTHSS 53 - Ocean Biogeochemistry (4.00)	←	No Course Articulated
EARTHSS 55 - Earth's Atmosphere (4.00)	←	No Course Articulated
STATS 7 - Basic Statistics (4.00)	←	**MATH 10** - Introductory Statistics (5.00) **--- Or ---** **MATH 10H** - Introductory Statistics - HONORS (5.00) **--- Or ---** **PSYC 15** - Statistics and Research Methods in Social Science (4.00) Same-As: SOC 15

ADDITIONAL ELECTIVE COURSES CHOSEN FROM

BIO SCI 93 - DNA to Organisms (4.00)	←	**BIOL 6B** - Cell and Molecular Biology (6.00)

BIO SCI 94 - Organisms to Ecosystems (4.00)	←	**BIOL 6A** - Form and Function in the Biological World (6.00) **--- And ---** **BIOL 6C** - Ecology and Evolution (6.00) **--- Or ---** **BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00) **--- And ---** **BIOL 6CH** - Ecology and Evolution - HONORS (6.00)
BIO SCI 98 - Biochemistry (4.00)	←	No Course Articulated
CHEM 51A - Organic Chemistry (4.00) **--- And ---** **CHEM 51LB** - Organic Chemistry Laboratory (3.00)	←	**CHEM 12A** - Organic Chemistry (5.00)
CHEM 51B - Organic Chemistry (4.00) **--- 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)
MATH 2D - Multivariable Calculus (4.00)	←	**MATH 1D** - Calculus (5.00) **--- Or ---** **MATH 1DH** - Calculus - HONORS (5.00)
--- Or ---		
MATH 3A - Introduction to Linear Algebra (4.00)	←	**MATH 2B** - Linear Algebra (5.00) **--- Or ---** **MATH 2BH** - Linear Algebra - HONORS (5.00)
--- Or ---		
MATH 6G - 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 51A - Modern Physics (4.00)	←	**PHYS 4D** - Physics for Scientists and Engineers: Modern Physics (6.00)
PHYSICS 51B - Modern Physics (4.00)	←	No Course Articulated
ENGRMAE 91 - Introduction to Thermodynamics (4.00)	←	No Course Articulated
EECS 10 - Computational Methods in Electrical and Computer Engineering (4.00)	←	**CIS 22A** - Beginning Programming Methodologies in C++ (4.50) **--- Or ---** **CIS 26A** - C as a Second Programming Language (4.50) **--- Or ---** **CIS 35A** - Java Programming (4.50) **--- Or ---** **CIS 36A** - Introduction to Computer Programming Using Java (4.50)
--- Or ---		

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)
--- Or ---		
I&C SCI 31 - Introduction to Programming (4.00)	←	**CIS 40** - Introduction to Programming in Python (4.50) **--- Or ---** **CIS 41A** - Python Programming (4.50)
--- Or ---		
PHYSICS 53 - Introduction to C and Numerical Analysis (4.00)	←	**CIS 26A** - C as a Second Programming Language (4.50) **--- Or ---** **CIS 22A** - Beginning Programming Methodologies in C++ (4.50)

END OF AGREEMENT