Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Los Angeles 2022-2023 General Catalog, Quarter	From: De Anza College 2022-2023 General Catalog, Quarter

Climate Science/B.S.

IMPORTANT MAJOR INFORMATION

Listed below are the lower division preparation information courses for the major. **Effective fall 2024 admission and thereafter, you must complete the following preparation courses by the end of spring before transfer: one year of calculus, one general chemistry course with lab, one semester of calculus-based physics, and one introductory statistics course.** Completion of one additional semester of calculus based physics with lab and one course in programming (preferably Python) is recommended. All courses must be taken for a letter grade. **For more information regarding this major and UCLA's transfer selection process, visit** https://atmosci.ucla.edu and https://admission.ucla.edu.

PLEASE NOTE: the community college courses listed below have been approved to satisfy preparation for this major at UCLA, but they may not be exact equivalents of the UCLA courses listed.
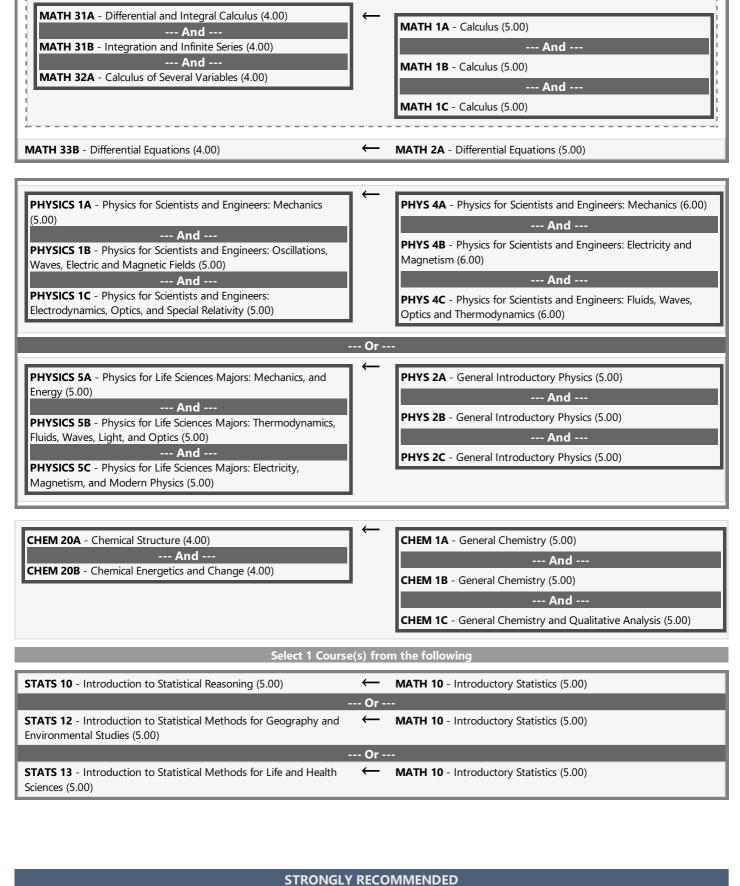
ADDITIONAL MAJOR INFORMATION

The Statistics course included on this agreement has been accepted as a substitute to satisfy the major prep for Stats 13 which means it may not transfer as an exact UCLA equivalent.

LOWER DIVISION MAJOR REQUIREMENTS

A&O SCI 51 - Fundamentals of Climate Science (4.00) ← No Course Articulated

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A&O SCI M71 - M71. Introduction to Computing for Geoscientists (4.00) ← No Course Articulated

--- Or ---

COMPTNG 10A - Introduction to Programming(C++) (5.00) ← **CIS 27** - Programming in C++ for C/Java Programmers (4.50)

--- Or ---

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

--- And ---

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

LIFESCI 30A - Mathematics for Life Scientists (5.00) ← No Course Articulated

--- And ---

LIFESCI 30B - Mathematics for Life Scientists (5.00) ← No Course Articulated

--- Or ---

MATH 3A - Calculus for Life Sciences Students (4.00) ← No Course Articulated

--- And ---

MATH 3B - Calculus for Life Sciences Students (4.00) ← No Course Articulated

--- And ---

MATH 3C - Ordinary Differential Equations with Linear Algebra for Life Sciences Students (4.00) ← No Course Articulated

--- Or ---

MATH 31A - Differential and Integral Calculus (4.00)	**MATH 1A** - Calculus (5.00)
--- And ---	--- And ---
MATH 31B - Integration and Infinite Series (4.00)	**MATH 1B** - Calculus (5.00)
--- And ---	--- And ---
MATH 32A - Calculus of Several Variables (4.00)	**MATH 1C** - Calculus (5.00)

MATH 33B - Differential Equations (4.00)	← **MATH 2A** - Differential Equations (5.00)

PHYSICS 1A - Physics for Scientists and Engineers: Mechanics (5.00)	← **PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)
--- And ---	--- And ---
PHYSICS 1B - Physics for Scientists and Engineers: Oscillations, Waves, Electric and Magnetic Fields (5.00)	**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
--- And ---	--- And ---
PHYSICS 1C - Physics for Scientists and Engineers: Electrodynamics, Optics, and Special Relativity (5.00)	**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

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PHYSICS 5A - Physics for Life Sciences Majors: Mechanics, and Energy (5.00)	← **PHYS 2A** - General Introductory Physics (5.00)
--- And ---	--- And ---
PHYSICS 5B - Physics for Life Sciences Majors: Thermodynamics, Fluids, Waves, Light, and Optics (5.00)	**PHYS 2B** - General Introductory Physics (5.00)
--- And ---	--- And ---
PHYSICS 5C - Physics for Life Sciences Majors: Electricity, Magnetism, and Modern Physics (5.00)	**PHYS 2C** - General Introductory Physics (5.00)

CHEM 20A - Chemical Structure (4.00)	← **CHEM 1A** - General Chemistry (5.00)
--- And ---	--- And ---
CHEM 20B - Chemical Energetics and Change (4.00)	**CHEM 1B** - General Chemistry (5.00)
	--- And ---
	CHEM 1C - General Chemistry and Qualitative Analysis (5.00)

Select 1 Course(s) from the following

STATS 10 - Introduction to Statistical Reasoning (5.00)	← **MATH 10** - Introductory Statistics (5.00)

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STATS 12 - Introduction to Statistical Methods for Geography and Environmental Studies (5.00)	← **MATH 10** - Introductory Statistics (5.00)

--- Or ---

STATS 13 - Introduction to Statistical Methods for Life and Health Sciences (5.00)	← **MATH 10** - Introductory Statistics (5.00)

STRONGLY RECOMMENDED

One additional semester of calculus based physics and one course in computer programming (preferably Python).	← No Course Articulated

END OF AGREEMENT