

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

Environmental Science/B.S.

IMPORTANT MAJOR INFORMATION

Listed below are the lower division preparation courses for the major. **To be considered for this major, you must complete the following highlighted coursework by the end of spring before transfer: one course in statistics, one course in introduction to environmental science or intro to earth science; one year of calculus; one year of general chemistry with lab, one year of biology with lab for the major (evolution, cellular), and one year of calculus based physics to include (mechanics, electricity, and magnetism).** In addition, two courses are strongly recommended from the following depending on the concentration: one semester of organic chemistry, third semester of calculus, third semester of calculus-based physics and general biology with lab for the major (molecular). All courses must be taken for a letter grade. **For more information regarding this major and UCLA's transfer selection process, visit <https://ioes.ucla.edu> and <https://admission.ucla.edu>.**

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

ADDITIONAL NOTES

The Calculus for Life Sciences courses listed below have been approved as substitutes for UCLA's Math 3ABC series through Spring 2019. However, students may be required to complete additional math courses after transfer to satisfy this requirement.

LOWER DIVISION MAJOR PREPARATION COURSES

CHEM 20A - Chemical Structure (4.00)

--- And ---

CHEM 20B - Chemical Energetics and Change (4.00)

--- And ---

CHEM 20L - 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)

ENVIRON 10 - Introduction to Environmental Science (4.00)



No Course Articulated

GEOG 7 - Introduction to Geographic Information Systems (5.00)



No Course Articulated

LIFESCI 7A - Cell and Molecular Biology (5.00)



BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

LIFESCI 7B - Genetics, Evolution, and Ecology (5.00)



BIOL 6C - Ecology and Evolution (6.00)

--- Or ---

BIOL 6CH - Ecology and Evolution - HONORS (6.00)

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

--- Or ---

MATH 31A - Differential and Integral Calculus (4.00)

--- And ---

MATH 31B - Integration and Infinite Series (4.00)



MATH 1A - Calculus (5.00)

--- And ---

MATH 1B - Calculus (5.00)

LIFESCI 30A - Mathematics for Life Scientists (5.00)



No Course Articulated

LIFESCI 30B - Mathematics for Life Scientists (5.00)



No Course Articulated

LIFESCI 40 - Statistics of Biological Systems (5.00)



No Course Articulated

PHYSICS 5A - Physics for Life Sciences Majors: Mechanics, and Energy (5.00)

--- And ---

PHYSICS 5C - Physics for Life Sciences Majors: Electricity, Magnetism, and Modern Physics (5.00)



PHYS 2A - General Introductory Physics (5.00)

--- And ---

PHYS 2C - General Introductory Physics (5.00)

--- Or ---

PHYSICS 1A - Physics for Scientists and Engineers: Mechanics (5.00)

--- And ---

PHYSICS 1B - Physics for Scientists and Engineers: Oscillations, Waves, Electric and Magnetic Fields (5.00)



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

--- And ---

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

STATS 12 - Introduction to Statistical Methods for Geography and Environmental Studies (5.00)

- *Acceptable substitute*



MATH 10 - Introductory Statistics (5.00)

--- Or ---

STATS 13 - Introduction to Statistical Methods for Life and Health Sciences (5.00)

- *Acceptable substitute*



MATH 10 - Introductory Statistics (5.00)

END OF AGREEMENT