

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Santa Barbara
2022-2023 General Catalog, Quarter

From: De Anza College
2022-2023 General Catalog, Quarter

Hydrologic Sciences and Policy, B.S.

GENERAL INFORMATION FOR ALL MAJORS

All transfer applicants must satisfy University of California admissions eligibility requirements as well as meeting campus admission selection criteria. Completing the UC transfer admission requirements in English and mathematics by the end of the fall term prior to the fall application quarter makes an applicant more competitive for admission to UCSB. All admission requirements must be completed by the end of spring prior to transfer. For more information on UC admissions eligibility requirements and admission to UCSB, please visit the Admissions website: www.admissions.ucsb.edu

This articulation agreement lists course-to-course or sequence-to-sequence substitutions for preparation in the major. **Transfer students are strongly encouraged to complete as many major preparatory courses as possible prior to enrolling at UCSB. Completion of all major preparatory courses is not an admissions requirement, but some majors require certain courses to be completed prior to transfer with a specified GPA, and completion or near completion of major preparatory courses will help students move more efficiently toward graduation after transfer.**

Please note that the course "equivalencies" do not necessarily apply to UCSB general education. For information concerning satisfaction of UCSB general education requirements, please refer to the General Education/Breadth articulation agreement.

Advanced Placement (AP) and **International Baccalaureate (IB)** exams may or may not be used to meet course requirements, depending on the exam. Please refer to the [AP Chart](#) and [IB Chart](#) in the [UCSB General Catalog](#) for information on how we use AP and IB exams.

HYDROLOGIC SCIENCES AND POLICY, B.S.

Please visit the department's website to learn more about this major: www.es.ucsb.edu

Hydrologic Sciences and Policy students must select one of three emphases: [Biology and Ecology Emphasis](#), [Physical and Chemical Emphasis](#), or [Policy Emphasis](#). The preparation for the major listed below is the same for each emphasis.

PREPARATION FOR THE MAJOR:

Economics 1 or 2 or 9 or Environmental Studies 30

Mathematics 3A, 3B, 4A, 4B

Chemistry 1A-1AL-1B-1BL-1C-1CL

Physics 1-2-3-3L (recommended) or Physics 6A-6AL-6B-6BL-6C-6CL (acceptable but not recommended)

Geography 4

PSTAT 5A or 5LS

Earth Science 2

MCDB 1A-1B-1LL and EEMB 2-2LL-3

Environmental Studies 3 or Political Science 12

History 5 or 7

(Transfer applicants do not need to complete all Preparation for the Major in order to be admitted, but should complete as much as possible before transferring so they will be prepared to progress in the major at UCSB.)

PREPARATION FOR THE MAJOR

ECON 1 - Principles of Economics-Micro (4.00)	←	ECON 2 - Principles of Microeconomics (4.00)
		--- Or ---
		ECON 2H - Principles of Microeconomics - HONORS (4.00)
	--- Or ---	
ECON 2 - Principles of Economics-Macro (4.00)	←	ECON 1 - Principles of Macroeconomics (4.00)
		--- Or ---
		ECON 1H - Principles of Macroeconomics - HONORS (4.00)
	--- Or ---	
ECON 9 - Introduction to Economics (4.00)	←	No Course Articulated

--- Or ---

ENV S 30 - Introduction to Environmental Economics (4.00)



ECON 3 - Environmental Economics (4.00)

--- Or ---

ECON 3H - Environmental Economics - HONORS (4.00)

MATH 3A - Calculus with Applications, First Course (4.00)



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

MATH 3B - Calculus with Applications, Second Course (4.00)



MATH 1B - Calculus (5.00)

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)

MATH 4A - Linear Algebra with Applications (4.00)



MATH 2B - Linear Algebra (5.00)

--- Or ---

MATH 2BH - Linear Algebra - HONORS (5.00)

MATH 4B - Differential Equations (4.00)



MATH 2A - Differential Equations (5.00)

--- Or ---

MATH 2AH - Differential Equations - HONORS (5.00)

CHEM 1A - General Chemistry (3.00)

--- And ---

CHEM 1AL - General Chemistry Laboratory (2.00)

--- And ---

CHEM 1B - General Chemistry (3.00)

--- And ---

CHEM 1BL - General Chemistry Laboratory (2.00)

--- And ---

CHEM 1C - General Chemistry (3.00)

--- And ---

CHEM 1CL - General Chemistry Laboratory (2.00)



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)

PHYS 1 - Basic Physics (4.00)



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

--- And ---

PHYS 2 - Basic Physics (4.00)



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

--- And ---

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

--- And ---

PHYS 3 - Basic Physics (3.00)

--- And ---

PHYS 3L - Physics Laboratory (1.00)



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

--- And ---

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

--- Or ---

Acceptable; Not recommended

PHYS 6A - Introductory Physics (3.00)

--- And ---

PHYS 6AL - Introductory Experimental Physics (1.00)

--- And ---

PHYS 6B - Introductory Physics (3.00)

--- And ---

PHYS 6BL - Introductory Experimental Physics (1.00)

--- And ---

PHYS 6C - Introductory Physics (3.00)

--- And ---

PHYS 6CL - Introductory Experimental Physics (1.00)

PHYS 2A - General Introductory Physics (5.00)

--- And ---

PHYS 2B - General Introductory Physics (5.00)

--- And ---

PHYS 2C - General Introductory Physics (5.00)

GEOG 4 - Land, Water and Life (4.00)

GEO 1 - Physical Geography (4.00)

PSTAT 5A - Understanding Data (5.00)

MATH 10 - Introductory Statistics (5.00)

--- Or ---

MATH 10H - Introductory Statistics - HONORS (5.00)

--- Or ---

MATH 17 - Integrated Statistics 2 (5.00)

--- Or ---

MATH 23 - Engineering Statistics (5.00)

--- Or ---

PSYC 15 - Statistics and Research Methods in Social Science (4.00)
Same-As: SOC 15

--- Or ---

SOC 15 - Statistics and Research Methods in Social Science (4.00)
Same-As: PSYC 15

--- Or ---

PSTAT 5LS - Statistics for Life Sciences (5.00)

No Course Articulated

EARTH 2 - Principles of Physical Geology (4.00)

GEOL 10 - Introductory Geology (5.00)

MCDB 1A - Introductory Biology I (4.00)

--- And ---

MCDB 1B - Introductory Biology II - Physiology (3.00)

--- And ---

MCDB 1LL - Introductory Biology Laboratory I (1.50)

--- And ---

EEMB 2 - Introductory Biology II - Ecology and Evolution (3.00)

--- And ---

EEMB 2LL - Introductory Biology Laboratory II (1.50)

--- And ---

EEMB 3 - Introductory Biology III (3.00)

- If the entire sequence is not completed prior to transfer, students must consult the department advisor prior to enrollment*

BIOL 6A - Form and Function in the Biological World (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (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 6B - Cell and Molecular Biology (6.00)

--- And ---

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

ENV S 3 - Introduction to the Social and Cultural Environment (4.00)

No Course Articulated

--- Or ---

POL S 12 - American Government and Politics (4.00)

POLI 1 - American Government and Politics (5.00)

--- Or ---

POLI 1H - American Government and Politics - HONORS (5.00)

HIST 5 - The History of the Present (4.00)

No Course Articulated

--- Or ---

HIST 7 - Great Issues in the History of Public Policy (4.00)

No Course Articulated

END OF AGREEMENT