

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

Geography, B.A. - Geographic Information Science Emphasis

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.

GEOGRAPHY, B.A. - GEOGRAPHIC INFORMATION SCIENCE EMPHASIS

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

PREPARATION FOR THE MAJOR:

- Geography 3 and 4 and 5 and 12
- One course from: Chemistry 1A-1AL; EEMB 2-2L or EEMB 2-2LL; Environmental Studies 2; Earth Science 2 or 4; MCDB 20; Physics 6A-6AL
- One course from: Anthropology 2 or 5; Communication 1; Economics 1 or 2; Environmental Studies 3; Linguistics 20; Political Science 7; Psychology 1; Sociology 1
- Computer Science 8
- One course from: Communication 87; PSTAT 5A, 5LS

Strongly recommended: Math 3A

(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

GEOG 3 - Oceans and Atmosphere (4.00)	← MET 10 - Weather and Climate Processes (5.00)
GEOG 4 - Land, Water and Life (4.00)	← GEO 1 - Physical Geography (4.00)
GEOG 5 - People, Place and Environment (4.00)	← GEO 4 - Cultural Geography (4.00)
GEOG 12 - Maps and Spatial Reasoning (4.00)	← No Course Articulated
CMPS 8 - Introduction to Computer Science (4.00)	← CIS 5 - Swift Programming (4.50) --- Or --- CIS 22A - Beginning Programming Methodologies in C++ (4.50) --- Or --- CIS 35A - Java Programming (4.50) --- Or --- CIS 40 - Introduction to Programming in Python (4.50) --- Or --- CIS 41A - Python Programming (4.50)

Select 1 Course(s) from the following

CHEM 1A - General Chemistry (3.00)

--- And ---

CHEM 1AL - General Chemistry Laboratory (2.00)



CHEM 1A - General Chemistry (5.00)

--- Or ---

CHEM 1AH - General Chemistry - HONORS (5.00)

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

--- And ---

EEMB 2L - Introductory Biology Laboratory II (1.00)
Same-As: MCDB 1BL



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)

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

--- And ---

EEMB 2LL - Introductory Biology Laboratory II (1.50)



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 2 - Introduction to Environmental Science (4.00)



ESCI 1 - Environmental Science (4.00)

--- Or ---

ESCI 19 - Environmental Biology (5.00)

EARTH 2 - Principles of Physical Geology (4.00)



GEOL 10 - Introductory Geology (5.00)

EARTH 4 - Introduction to Oceanography (4.00)



GEOL 20 - General Oceanography (4.00)

MCDB 20 - Concepts of Biology (4.00)



BIOL 10 - Introductory Biology (5.00)

--- Or ---

BIOL 10H - Introductory Biology - HONORS (5.00)

PHYS 6A - Introductory Physics (3.00)

--- And ---

PHYS 6AL - Introductory Experimental Physics (1.00)



PHYS 2A - General Introductory Physics (5.00)

Select 1 Course(s) from the following

ANTH 2 - Introductory Cultural Anthropology (4.00)



ANTH 2 - Cultural Anthropology (4.00)

--- Or ---

ANTH 2H - Cultural Anthropology - HONORS (4.00)

ANTH 5 - Introductory Biological Anthropology (5.00)



ANTH 1 - Physical Anthropology (4.00)

--- Or ---

ANTH 1H - Physical Anthropology - HONORS (4.00)

COMM 1 - Introduction to Communication (5.00)



No Course Articulated

ECON 1 - Principles of Economics-Micro (4.00)



ECON 2 - Principles of Microeconomics (4.00)

--- Or ---

ECON 2H - Principles of Microeconomics - HONORS (4.00)

ECON 2 - Principles of Economics-Macro (4.00)	←	ECON 1 - Principles of Macroeconomics (4.00) --- Or --- ECON 1H - Principles of Macroeconomics - HONORS (4.00)
ENV S 3 - Introduction to the Social and Cultural Environment (4.00)	←	No Course Articulated
LING 20 - Language and Linguistics (4.00)	←	LING 1 - Introduction to Linguistics (4.00)
POL S 7 - Introduction to International Relations (4.00)	←	POLI 3 - International Relations (4.00)
PSY 1 - Introduction to Psychology (4.00)	←	PSYC 1 - General Psychology (4.00)
SOC 1 - Introduction to Sociology (4.00)	←	SOC 1 - Introduction to Sociology (4.00)

Select 1 Course(s) from the following

COMM 87 - Statistical Analysis for Communication (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
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
PSTAT 5LS - Statistics for Life Sciences (5.00)	←	No Course Articulated

STRONGLY RECOMMENDED

Recommended; Not required for the major

MATH 3A - Calculus with Applications, First Course (4.00)	←	MATH 1A - Calculus (5.00) --- Or --- MATH 1AH - Calculus - HONORS (5.00)
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END OF AGREEMENT