A Course of Study for

ENVIRONMENTAL SCIENCE/STUDIES - Transfer

Programs in this field may be interdisciplinary in nature and are designed to prepare people to analyze, do research in and solve environmental or energy problems. The environmental sciences concentration meets the need for technical jobs—engineers, biologists, chemists, and geologists. An environmental/urban studies concentration may lead to employment opportunities in the public sector as ecological watchdogs—activists, lobbyists, environmental policy analysts, urban planners, and lawyers, as well as employment in a growing job market in the areas of education and communication. Entrepreneurs are creating environmentally friendly “green” products.

This major may also lead to many other careers. For additional possibilities, visit the Career Services Center on campus to utilize computerized career information systems and other valuable career resources.

**TRANSFER**

Students planning to transfer to a four-year college should complete the lower-division major requirements and the general education pattern for the appropriate transfer institution. Santa Monica College has articulation agreements for this major with the following UC, CSU, and private institutions. Exact major requirements for these and other UC and CSU campuses can be found online at www.assist.org. Articulation agreements with private institution can be found online at www.smc.edu/articulation.

**UNIVERSITY OF CALIFORNIA, BERKELEY**

**B.A. ENVIRONMENTAL SCIENCES (COLLEGE OF LETTERS AND SCIENCE) OR B.S. ENVIRONMENTAL SCIENCE (COLLEGE OF NATURAL RESOURCES): BIOLOGICAL SCIENCES CONCENTRATION:** BIOLOGY 21 and 22 and 23; CHEMISTRY 11 and 12, 21; ECONOMICS 1 and 2; MATH 7, 8; PHYSICS 8 or 21 and 23

**PHYSICAL SCIENCES CONCENTRATION:** BIOLOGY 21 and 22 and 23 or BIOLOGY 3 and upper-division ecology course at UC Berkeley; CHEMISTRY 11 and 12, 21; ECONOMICS 1 and 2; MATH 7, 8; PHYSICS 21 and 22 and 23

**SOCIAL SCIENCES CONCENTRATION:** BIOLOGY 21 and 22 and 23 or BIOLOGY 3 and upper-division ecology course at UC Berkeley; CHEMISTRY 11 and 12; ECONOMICS 1 and 2; MATH 7, 8; PHYSICS 8 or 21 and 23

**UNIVERSITY OF CALIFORNIA, DAVIS**

**B.S. ENVIRONMENTAL BIOLOGY AND MANAGEMENT:** BIOLOGY 21, 22 and 23; CHEMISTRY 11 and 12; CS 3 or 13 or 15 or 50; POLITICAL SCIENCE 1 or ECONOMICS 1 (select ECONOMICS 1 for Environmental Management option); MATH 7 and 8; PHYSICS 21 and 23 or 8 and 9 or 6 and 7; select one course the following: MATH 11, 13, 15 (Environmental Biology option take MATH 13 and 15)

**B.S. ENVIRONMENTAL HORTICULTURE AND URBAN FORESTRY:** BIOLOGY 21, 22, 23; CHEMISTRY 11 and 12; MATH 7 or 54; select two lower-division Social Science/Humanities courses in consultation with UCD advisor.

**B.S. ENVIRONMENTAL POLICY ANALYSIS AND PLANNING:** BIOLOGY 3 or 21 and 22; CS 3 or 13 or 15 or 50; ECONOMICS 1, 2; BIOLOGY 23 or GEOLOGY 1 or 4; MATH 7, 8, 54; POLITICAL SCIENCE 1; CHEMISTRY 11 and 12

**B.S. ENVIRONMENTAL AND RESOURCE SCIENCES:** BIOLOGY 21, 22 and 23; CHEMISTRY 11 and 12; ECONOMICS 1; GEOLOGY 1 or 4; MATH 7, 8, 54; CS 3 or 13 or 15; PHYSICS 6 and 7 or 8 and 9 or 21 and 22 and 23

**B.S. ENVIRONMENTAL TOXICOLOGY:** BIOLOGY 21 and 22, 23; CHEMISTRY 11 and 12, 21 and 22 and 24; MATH 7, 8; PHYSICS 6 and 7 or 8 and 9

**UNIVERSITY OF CALIFORNIA, IRVINE**

**B.S. EARTH & ENVIRONMENTAL SCIENCE:** CHEMISTRY 11 and 12; MATH 7 and 8; 11, 13; PHYSICS (8 and 9) or (21 and 23)

**B.A. EARTH AND ENVIRONMENTAL STUDIES:** BIOLOGY 21, 23; CHEMISTRY 11 and 12; MATH 7, 8, 11, 13; select three courses from the following: ECONOMICS 1, 2; SOCIOLOGY 1 or 15; 2 or 25

ENVIRONMENTAL ENGINEERING: BIOLOGY 23; CHEMISTRY 11 and 12, 21; CS 36 or 50 or 52; ENGINEERING 12, 16; MATH 7 and 8 and 11 and 13, 15; PHYSICS 21

**UNIVERSITY OF CALIFORNIA, LOS ANGELES**

**B.A. GEOGRAPHY ENVIRONMENTAL STUDIES:** GEOGRAPHY 2, 5

**EARTH AND ENVIRONMENTAL SCIENCE, B.A.:** GEOLOGY 4; CHEMISTRY 11 and 12; MATH 7 and 8; BIOLOGY 21 and 23; PHYSICS 8 and 9 or 21 and 22

**UNIVERSITY OF CALIFORNIA, SANTA BARBARA**

**ENVIRONMENTAL STUDIES B.A.:** ENVIRONMENTAL STUDIES 7 or GEOGRAPHY 7; ECONOMICS 1 or 2; GEOLOGY 4 or 31 or GEOGRAPHY 3 or 5; BIOLOGY 3 or 21, 9; MATH 54; MATH 7 and 8 or 28 and 29; CHEMISTRY 11 and 12; PHILOSOPHY 2 or 7 or 9 or POLITICAL SCIENCE 52; select two courses from the following: ANTHROPOLOGY 2, GEOGRAPHY 2, POLITICAL SCIENCE 1, 2, 7; SOCIOLOGY 1; PHILOSOPHY 23 or HISTORY 53

**ENVIRONMENTAL STUDIES B.S.:** ENVIRONMENTAL STUDIES 7 or GEOGRAPHY 7; BIOLOGY 9, BIOLOGY 21 and 22 and 23; ECONOMICS 1 or 2; GEOLOGY 4 or 31 or GEOGRAPHY 3 or 5; MATH 7 and 8, 11 and 15, 54; CHEMISTRY 11 and 12; PHYSICS 21, 22 and 23 or 8 and 9 or 6 and 7; PHILOSOPHY 2 or 7 or 9 or POLITICAL SCIENCE 52; select one course from the following: ANTHROPOLOGY 2; GEOGRAPHY 2; POLITICAL SCIENCE 1, 2, 7; SOCIOLOGY 1; PHILOSOPHY 23; HISTORY 53

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SUBJECT TO CHANGE WITHOUT NOTICE. ADDITIONAL INFORMATION ON REVERSE.

*www.assist.org*
UC Santa Cruz is specifically looking for the following criteria for admissions to the Environmental Studies major:

1. Completion of pre-requisite courses prior to Fall entrance at UCSC;
2. GPA earned in all transferable courses

**ENVIRONMENTAL STUDIES B.A.:** ANTHROPOLOGY 2 or SOCIOLOGY 1 or PHILOSOPHY 2; BIOLOGY 21 and 22 and 23; CHEMISTRY 10 or 11; ECONOMICS 1 or 2; MATH 2, 52; POLITICAL SCIENCE 1 or 7 (transfer students will be considered for the Fall semester only)

**OTHER MAJORS INCLUDE:** Environmental Studies/Biology combined B.A.; Environmental Studies/Earth Science combined B.A.; Environmental studies/Economics combined B.A.

Please see [www.assist.org](http://www.assist.org) for major details and requirements.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

**B.A. ENVIRONMENTAL SCIENCE AND POLICY:** BIOLOGY 3; CHEMISTRY 10; ECONOMICS 1, 2; GEOLOGY 4; MATH 28 and 29 or MATH 7; electives for major: select no more than 9 units from the following: GEOGRAPHY 1, 2; MICROBIOLOGY 1; PHYSICS 6

**B.S. ENVIRONMENTAL SCIENCE AND POLICY:** BIOLOGY 21 and 22 and 23; CHEMISTRY 11 and 12; GEOLOGY 4; MATH 7, 8

Electives for the major (maximum 12 units):

**NATURAL SCIENCE TRACK:** 12 units must be in Biology and Microbiology, Geology, Chemistry, and Chemical Engineering: PHYSICS 6 and 7 (or 21 and 22) required for the Natural Science track.

**SOCIAL SCIENCE TRACK:** 12 units must be in Economics or Geography; PHYSICS 6 and 7 or 21 and 22; MICROBIOLOGY 1

**CALIFORNIA STATE UNIVERSITY, NORTH RIDGE**

**ENVIRONMENTAL GEOLOGY OPTION:** add CHEMISTRY 21 and 22 and 24; MATH (7 or 28) and (8 or 29 or 54); select one sequence from the following: PHYSICS 6 and 7 or 21, 22 and 24

**SAN FRANCISCO STATE UNIVERSITY**

**B.A./B.S. ENVIRONMENTAL STUDIES:** ANTHROPOLOGY 2 or GEOGRAPHY 2; BIOLOGY 21 and 22 and 23; CHEMISTRY 11; ENGLISH 2; GEOGRAPHY 1

**EARTH SYSTEM SCIENCE CONCENTRATION:** add GEOLOGY 4; MATH 7; MATH 8 or 54; PHYSICS 6, 7; lower-division electives: CHEMISTRY 12; GEOLOGY 31

**NATURAL RESOURCES MANAGEMENT AND CONSERVATION CONCENTRATION:** no additional lower-division courses.

**MILLS COLLEGE**

“Minimum” is the minimum coursework needed in order to complete a B.A. in the associated major in two years, requiring multiple “heavy” semesters with three or four science courses in one semester. Students on a four-year B.A. path typically take two science or math courses each semester. “Minimum” coursework will not enable a student to complete a B.S. in two years. Students who do not meet the “minimum” pre-requisites may be able to complete the program, given extra time or some summer coursework, and should contact the departmental representatives below.

“Optimal” is the additional coursework to put a transfer student on the same schedule as a student who entered Mills College as a freshman, for the B.A. program. Students who enter at this level will also be able to complete the B.S. by taking one or more semesters with 4 science courses and/or some summer coursework.

“Recommended” courses are specifically for students interested in the B.S. degree. In the B.S. program, students typically take 3 science and/or math courses after the freshman year. With the recommended coursework completed, transfer students should not need to take more than 3 science/math courses in one semester to complete the B.S. degree.

**B.A. ENVIRONMENTAL SCIENCE:**

- Minimum: CHEMISTRY 11; 12; GEOGRAPHY 5
- Optimal, also complete: BIOLOGY 21, 22, 23; CHEMISTRY 21; MATH 7, 52
- Recommended, also complete: CHEMISTRY 22, 24; Math 8

Department Representative: Kristina Faul kfaul@mills.edu

General education requirements are listed on separate sheet available in the Transfer/Counseling Center, as well as online at [www.smc.edu/articulation](http://www.smc.edu/articulation).