

2020+ Environmental Science Major Requirements

Total = 24 required courses

B.S. degree

Preparatory courses (11)

- ENVS 21 (Intro to Environmental Biology)
- ENVS 22 (Intro to Environmental Studies)
- ENVS 23 (Intro to Earth Systems)
- ENVS 79 (Environmental Thought) OR
PHIL 29 (Ethical Issues and the Environment)
- MATH 11 (Calculus & Analytic Geometry I) OR
MATH 35 (Calculus for Life Sciences)

- CHEM 11 (General Chemistry I)
- CHEM 12 (General Chemistry II)
**If you scored a 4 or 5 on the AP Chemistry test, the Chemistry Department recommends taking CHEM 14 instead of Chem 11 and 12.*
- CHEM 31 (Organic Chemistry)
**CHEM 14 is offered only in the Fall quarters.*

Plus one 3-course series from the choices below

- BIOL 1A (Energy & Matter)
- BIOL 1B (Information & Evolution)
- BIOL 1C (Systems)

-OR-

- PHYS 11 (General Physics I)
- PHYS 12 (General Physics II)
- PHYS 13 (General Physics III)
(PHYS 31-32-33 series is also acceptable)

Breadth courses (4)

- ENVS 110 / BIOL 160 (Environmental Statistics L&L)
- ENVS 116 (Introduction to GIS) or CENG 160 (GIS in Water Resources)
- ENVS 122 (Environmental Politics & Policy)

- One of the following upper-division courses:
ENVS 120 (Intro to US Environmental Law)
ENVS 124 / CENG 124 (Water Law and Policy)
ENVS 128 (Sustainable Urban Planning)
ENVS 131 (Environmental Education)
ENVS 136 / ANTH 140 (Food, Culture, and Environment)
ENVS 137 / ANTH 145 (Historical Ecology)
ENVS 143 (Advanced Writing/Environmental Humanities)

- ENVS 146 (Agric., Envir., and Develop. in Latin America)
- ENVS 147 (International Environment and Development)
- ENVS 149 (African Environment and Development)
- ENVS 150 (Political Ecology)
- ENVS 155 (Environmental and Food Justice)
- ENVS 170 (Environmental Justice)

Advanced courses (9)

All students take Colloquium, Proseminar and Capstone, plus 6 additional upper-division science courses (≥ 3 with lab). See adviser for recommendations on concentrating electives.

- ENVS 188 or attend 10 environmental colloquia (ENVS 188 required for students who enter SCU in Fall 2022 or later)
- ENVS 198 (Proseminar) - recommended in sophomore year
- ENVS 100 & 101 (Intro to Capstone/Capstone) – fall/winter series for seniors only

Biological Sciences core list (at least 2 of 6 required science courses must come from this list)

- ENVS 151 / BIOL 151 (Restoration Ecology L&L)
- ENVS 153 / BIOL 153 (Conservation Science)
- ENVS 156 / BIOL 156 (General Ecology L&L)

Physical Sciences core list (at least 2 of 6 required science courses must come from this list)

- ENVS 145 (Environmental Technology L&L)
- ENVS 160 (Water Resources L&L)
- ENVS 166 (Climate Change: Past to Future L&L)

Electives list (count toward 6 required science courses; some courses may have additional prerequisites)

<ul style="list-style-type: none"><input type="checkbox"/> ENVS 117 (Intermediate GIS)<input type="checkbox"/> ENVS 132 (Agroecology L&L)<input type="checkbox"/> ENVS 144 / BIOL 144 (Natural Hist. of Baja L&L)<input type="checkbox"/> ENVS 161 (Water Security)<input type="checkbox"/> ENVS 175 (Oceanography)<input type="checkbox"/> ENVS 180 (Energy and the Environment)<input type="checkbox"/> ENVS 185 (Garbology)	<ul style="list-style-type: none"><input type="checkbox"/> BIOL 134 (California Plant Diversity L&L)<input type="checkbox"/> BIOL 142 (Natural History of California L&L)<input type="checkbox"/> BIOL 158 (Biology of Insects L&L)<input type="checkbox"/> BIOL 180 (Marine Ecology L&L)<input type="checkbox"/> BIOL 181 (Marine Biodiversity)<input type="checkbox"/> CENG 139 (Groundwater Hydrology)<input type="checkbox"/> CENG 161 (Sustainable Water Resources)
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Additional requirement:

- Environmental Internship (100 hours; pre-approved by adviser; to be completed before beginning of senior year)

University Core Requirements for a Natural Science major ("double-dip" major courses in parentheses)

Name: _____ **ID#:** _____ **Advisor:** _____

Cumulative GPA: _____ GPA in major: _____

CTW 1) _____ 2) _____

C & I 1) _____ 2) _____ 3) _____ (ENVS 50 for C & I 3)

Second Language 1) _____ 2) _____

Mathematics 1) _____

Natural Science with Lab 1) _____ (ENVS 21 or 23)

Religious Studies: 3 courses, with one course taken at each level; 3rd course taken after 88 units;
Transfer students with 44+ units of transfer credit can take any 2 religious studies courses in any order.

1) _____ 2) _____ 3) _____

Ethics (PHIL 29)

1) _____

Diversity

1) _____

Social Science

1) _____

Science, Technology & Society (ANTH 140 / ENVS 136; ENVS 145, 153, or 185 (pending))

1) _____

Civic Engagement (ENVS 22, ENVS 122)

1) _____

Arts (4 units total – one 4-unit course, two 2-unit courses, or four 1-unit courses)

1) _____ 2) _____ 3) _____ 4) _____

Experiential Learning for Social Justice (ENVS 131, ENVS 155)

1) _____

Advanced Writing* (ENVS 143, ENVS 161)

1) _____

Pathway*

1) _____ 2) _____ 3) _____ 4) _____

_____ Declare Pathway (before end of Sophomore year)

*Can overlap with core or major requirement