Updated 4.24.2024

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)
- ☐ CHEM 11 (General Chemistry I)
- ☐ CHEM 12 (General Chemistry II)
- ☐ CHEM 31 (Organic Chemistry)
- ☐ MATH 11 (Calculus & Analytic Geometry I) or MATH 35 (Calculus for Life Sciences)
- ☐ ENVS 79 (Environmental Thought) or PHIL 29 (Ethical Issues and the Environment)

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 (Agriculture, Environment, and Development 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)*☐ ENVS 117 (Intermediate GIS)

- ☐ ENVS 132 (Agroecology L&L)
- ☐ ENVS 144 / BIOL 144 (Natural History of Baja L&L)
- ☐ ENVS 161 (Water Security)
- ☐ ENVS 175 (Oceanography)
- ☐ ENVS 180 (Energy and the Environment)
- ☐ ENVS 185 (Garbology)
- ☐ BIOL 134 (California Plant Diversity L&L)
- ☐ BIOL 142 (Natural History of California L&L)
- ☐ BIOL 158 (Biology of Insects L&L)
- ☐ BIOL 180 (Marine Ecology L&L)
- ☐ BIOL 181 (Marine Biodiversity)
- ☐ CENG 139 (Groundwater Hydrology)
- ☐ CENG 161 (Sustainable Water Resources)
- ☐ ANTH 197 (Field Course in Primate Behavioral Ecology)

Additional requirement:

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

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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