

2013+ Environmental Science Bachelor of Science Requirements*

Total = 22-23 courses

Introductory (12-13 courses)

- ENVS 21 (Intro to Applied Ecology L & L)
- ENVS 22 (Intro to Environmental Studies)
- ENVS 23 (Intro to Earth Systems L & L)
- ENVS 79 (Environmental Thought) or PHIL 9 (Ethical Issues and the Environment)
- ANTH 50/ENVS 50/POLI 50 (World Geography)
- ECON 1 (Principles of Microeconomics)
- MATH 7 (Calculus for Social Science) or MATH 11 (Calculus & Analytic Geometry I)
- CHEM 11 (General Chemistry I)
- CHEM 12 (General Chemistry II)
- CHEM 13 (General Chemistry III)

Select one of the following series (consult your advisor)

- BIOL 21 (Intro. Physiology)
 - BIOL 22 (Intro. Evol. & Ecology)
 - BIOL 23 (Investigations in Evol. & Ecology L & L)
 - CHEM 31 (Organic Chemistry I)
 - CHEM 32 (Organic Chemistry II)
 - PHYS 11 (General Physics I)
 - PHYS 12 (General Physics II)
 - PHYS 13 (General Physics III)
- PHYS 31, 32, 33 can substitute*

Intermediate (3 courses plus colloquia)

- ENVS 110/BIOL 160 (Environmental Statistics L & L)
- ENVS 115 (GIS in Environmental Science L & L) or ENVS 116 (Introduction to GIS)
- ENVS 122/POLI 157 (Environmental Politics & Policy)
- Attend ten ESS-approved colloquia

Advanced (5 courses)**One upper division social science course from:**

- ANTH 140 (Food, Culture & Environment)
- ANTH 154 (Environmental Anthropology)
- COMM 120A (Environmental Communication)
- ECON 111 (Economics of the Environment)
- ENVS 120 (Intro to U.S. Environmental Law)
- ENVS 124/ CENG124 (Water Law & Policy)
- ENVS 128 (Urban & Environ. Planning)
- ENVS 146 (Ag, Environ, & Dev.: Latin Am.)
- ENVS 147 (Int'l Environment & Development)
- ENVS 149/POLI 146 (African Env. & Development)
- ENVS 150 (Political Ecology)
- ENVS 155 (Environmental and Food Justice)
- ENVS 167 (Innovation for Climate Justice)
- Consult your advisor to declare a thematic concentration

Applied Ecology Concentration*BIOL 21, 22, 23 series recommended***Four courses (at least one with lab) from:**

- ANTH 145 (Historical Ecology)
- BIOL 133 (Ecology of CA Plant Communities L&L)
- BIOL 134 (California Plant Diversity L & L)
- BIOL 158 (Biology of Insects L & L)
- ENVS 132/BIOL 131 (Agroecology L & L)
- ENVS 141 (Envtl. Biology in Tropics)
- ENVS 144 (Natural History of Baja)
- ENVS 151/BIOL 151 (Restoration Ecology L & L)
- ENVS 153/BIOL 153 (Conservation Science)
- ENVS 156/BIOL 156 (General Ecology L & L)
- ENVS 160 (Water Resources L & L)

Water, Energy, and Technology Concentration*Organic Chemistry or Physics series recommended***Four courses (at least one with lab) from:**

- BIOL 135/ENVS 135 (Biofuels: Sustainable Energy)
- CENG 119 (Design for Sustainable Construction)
- CENG 139 (Groundwater Hydrology)
- CENG 140 (Water Resources Engineering)
- CENG 143 (Environmental Engineering)
- CENG 160 (GIS in Water Resources)
- CENG 161 (Sustainable Water Resources)
- CENG 163 (Solid Waste Management)
- ENVS 10 (Joy of Garbage)
- ENVS 80 (Energy and the Environment)
- ENVS 145 (Environmental Technology)
- ENVS 148 (Solar Revolution)
- ENVS 160 (Water Resources L & L)
- ENVS 165 (Climate Science and Solutions)
- ENVS 166 (Climate Change: Past to Future)
- ENVS 185 (Garbology)

Integrative Senior Year Courses (2 courses)

- Get your internship plan approved by your advisor before beginning it
- ENVS 198 (Environmental Proseminar) – **Complete approved 100-hour internship prior to enrolling**
- ENVS 101 (Capstone Seminar)

Planning to study abroad? Consult your advisor to learn which courses can count toward your major.

No course can be used to fulfill two requirements on this sheet.

*These requirements apply to students who entered SCU as freshmen in **September 2013 or later.**

Recent transfer students should consult their academic advisors.

University Core Requirements for a Natural Science major (suggested courses in parentheses)

Name: _____ ID#: _____ Advisor: _____
Consult your Degree Progress Report on E-campus to complete this form.

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 (ENVS 21 or 23) 1) _____

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 9)

1) _____

Diversity 1) _____

Social Science (ECON 1)

1) _____

Science, Technology & Society (ANTH 140, ENVS 10, 80, 135, 145, 153)

1) _____

Civic Engagement (ANTH 154, ANTH 155, COMM 120A, 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 or 155)

1) _____

Advanced Writing* (ENVS 142)

1) _____

Pathway*

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

_____ Declare Pathway (end of Sophomore year)
_____ Submit Reflection Paper (Junior or Senior year)

*Can overlap with core or major requirements