Bachelor of Arts in Environmental Studies - Quantitative Reasoning Category III/IV and Stretch English

120 Total Units Required
Minimum Number of Units in the Major: 43

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>ENG 104</td>
<td>Writing the First Year: Stretch I</td>
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<tr>
<td>ENVS 130</td>
<td>Environmental Studies (Major Core, ES)</td>
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<tr>
<td>GE Area A ²</td>
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<tr>
<td>GE Area B: Quantitative Reasoning (B4) ³</td>
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<tr>
<td>B4 Support Course ³</td>
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<td>2-3</td>
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<tr>
<td><strong>Units</strong></td>
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<td>14-15</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<tr>
<td>Select One (Major Core):</td>
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<tr>
<td>CHEM 115</td>
<td>General Chemistry I: Essential Concepts of Chemistry</td>
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<tr>
<td>CHEM 180</td>
<td>Chemistry for the Energy and the Environment (B1, B3, ES)</td>
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<tr>
<td>ENG 105</td>
<td>Writing the First Year: Stretch II (A2)</td>
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<tr>
<td>Physical Environment - Select One (Major Elective):</td>
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<tr>
<td>ERTH 230</td>
<td>Environmental Geology (B1, B3, ES)</td>
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<tr>
<td>GEOG 101</td>
<td>Our Physical Environment (B1, ES)</td>
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<tr>
<td>GE Area A</td>
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<tr>
<td>GE Area D</td>
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<td><strong>Units</strong></td>
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<td><strong>Third Semester</strong></td>
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<tr>
<td>ENVS 224</td>
<td>Research Methods for Environmental Studies (Major Core)</td>
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<td>GE Area B: Life Science (B2)</td>
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<tr>
<td>GE Area C</td>
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<tr>
<td>GE Area E</td>
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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>GE Area C - Take Two</td>
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<tr>
<td>GE Area D - Take Two</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective 4</td>
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<td><strong>Units</strong></td>
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<td><strong>Fifth Semester</strong></td>
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<td>BIOL 313</td>
<td>Principles of Ecology (Major Elective)</td>
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<td>CHEM 380</td>
<td>Chemistry Behind Environmental Pollution (Major Core, UD-B, ES)</td>
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<tr>
<td>ENVS 680</td>
<td>Environmental Studies Internship (Major Core)</td>
<td>1-3</td>
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<tr>
<td>Emphasis Electives (11-12 units total) - Take One ⁵</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective - Take Two ⁴</td>
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<td><strong>Units</strong></td>
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<td><strong>Sixth Semester</strong></td>
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<tr>
<td>ENVS 450GW</td>
<td>Environmental Law and Policy - GWAR</td>
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<tr>
<td>Sustainability and Social Justice - Select One (Major Elective) ⁶</td>
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<td>Global/International - Select One (Major Elective):</td>
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<tr>
<td>ENVS/I R 331</td>
<td>Global Environmental Crisis (ES, GP, SJ)</td>
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<tr>
<td>ENVS 470</td>
<td>Climate Politics and Policy (ES, GP)</td>
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<td>GEOG/I R 428</td>
<td>International Political Economy of Food and Hunger</td>
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<td>Emphasis Elective (11-12 units total) - Take One ⁵</td>
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<td><strong>Units</strong></td>
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<td><strong>Seventh Semester</strong></td>
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<td>Emphasis Elective (11-12 units total) - Take One ⁵</td>
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<tr>
<td>GE Area UD-C: Upper-Division Arts and/or Humanities (Consider SF State Studies Course)</td>
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<tr>
<td>GE Area UD-D: Upper-Division Social Sciences (Consider SF State Studies Course)</td>
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<tr>
<td>Complementary Studies or SF State Studies or University Elective - Take Two ⁴</td>
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<tr>
<td><strong>Units</strong></td>
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<td><strong>Eighth Semester</strong></td>
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<tr>
<td>ENVS 690</td>
<td>Senior Seminar in Environmental Studies (Major Core)</td>
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<tr>
<td>Emphasis Electives (11-12 units total) - Take One ⁵</td>
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³ B4 Support Course
² GE Area A
¹ Stress I
⁴ Global/International - Take Two
⁵ Emphasis Electives - Take One
⁶ Sustainability and Social Justice - Take One
Complementary Studies or SF State Studies or University Elective 9
- Take Three $^4$

<table>
<thead>
<tr>
<th>Units</th>
<th>15</th>
</tr>
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<tbody>
<tr>
<td>Total Units</td>
<td>120-123</td>
</tr>
</tbody>
</table>

1. ENG 114 can only be taken if you complete Directed Self-Placement (DSP) and select ENG 114; if you choose ENG 104/ENG 105 through DSP you will satisfy A2 upon successful completion of ENG 105 in the second semester; multilingual students may be advised into alternative English courses.

2. To avoid taking additional units, it is recommended that you meet SF State Studies requirements (AERM, GP, ES, SJ) within your GE or major.

3. Depending on courses completed through Early Start, students in Pathway/Category III or IV may be required to enroll in a support course to complement their Quantitative Reasoning/B4 requirement. There are multiple course options for this pathway. Before enrolling in a B4 course, students should verify their MATH Pathway/Category in their Student Center (http://cms.sfsu.edu/content/student-center/). Information regarding the courses that correspond with your MATH Pathway/Category can be found on the Developmental Studies Office Website (http://developmentalstudies.sfsu.edu/).

4. Complementary Studies

Bachelor of Arts students must complete at least 12 units of Complementary Studies outside of the primary prefix for the major.

(Note: Students may not use an alternate prefix that is cross-listed with the primary prefix for the major.)

Students who complete two majors or a major and a minor automatically complete the Complementary Studies requirement.

Additional ways for students in the Environmental Studies B.A. program to satisfy the requirement is with one or more languages other than English, partial completion of a minor, partial completion of a certificate, or a coherent group of courses approved by a major advisor as complementary to the major.

All Complementary Studies units must be approved by an advisor and all of the units must be separate from the units used to satisfy major requirements. Courses that fulfill Complementary Studies units may be lower- or upper-division units, resident or transfer units, or units taken in approved study abroad programs.

5. **Emphasis Electives**

**Environmental Sustainability and Social Justice Emphasis (11–12 units)**

The Environmental Sustainability and Social Justice emphasis provides students with a theoretical and applied understanding of the issues of sustainability and the connections between social justice and environmental problems and solutions. Students study the roles that values and social, political, and economic structures play in contributing to the environmental crisis. With the help of an advisor, students obtain depth by selecting elective courses from political science, American Indian studies, sociology, philosophy and religion, economics, urban studies and planning, geography, women and gender studies, and other related fields.

Take 11-12 units. Courses used to meet other requirements of the major cannot also be used to meet Environmental Sustainability and Social Justice emphasis requirements.

- ENVS 470 Climate Politics and Policy (3 units) (ES, GP)
- ENVS 530 Environmental Leadership and Organizing (3 units) (ES)
- ENVS 570 Applied Local Sustainability (3 units) (ES)
- GEOG 421 Future Environments (3 units) (UD-D, ES, GP, SJ)
- PLSI 354 Politics, the Environment, and Social Change (4 units) (UD-D, ES, SJ)
- USP 515 Sustainable Development in Cities (4 units) (ES, SJ)
- USP 515/GEOG 667 Environmental Justice: Race, Poverty, and the Environment (4 units) (ES, GP, SJ)

**The Urban Environment Emphasis (11–12 units)**

The Urban Environment emphasis provides students with a strong interdisciplinary theoretical and empirical understanding for dealing with environmental issues in urban settings. With the help of an advisor, students obtain depth by selecting elective courses focusing on sustainable urban development, environmental justice, land-use planning, environmental policy, and the urban environment in a global perspective.

Take 11-12 units. Courses used to meet other requirements of the major cannot also be used to meet the Urban Environment emphasis requirements.

- GEOG 433/USP 433 Urban Transportation (4 units)
- GEOG 652/USP 652 Environmental Impact Analysis (4 units)
- GEOG 658/USP 658 Land-Use Planning (4 units)
- GEOG 667/USP 515 Environmental Justice: Race, Poverty, and the Environment (4 units) (ES, GP, SJ)
- USP 514 Sustainable Development in Cities (4 units) (ES, SJ)

**Humanities and the Environment Emphasis (11–12 units)**

The Humanities and the Environment emphasis explores the varied and complex ways that different cultures—past and present—view and communicate about the environment. With an advisor, students choose coursework in disciplines dealing with verbal or visual communication, such as communication studies, creative writing, technical and professional writing, ethnic studies, journalism, photography, design, electronic media, and cinema.

Take 11–12 units. Courses used to meet other requirements of the major cannot also be used to meet the Humanities and the Environment emphasis requirements.

- BECA 502 Environmental Communication on Electronic Media (3 units) (ES, SJ)
- ENG 535 Literature and Ecology (3 units) (UD-C, ES)
- JOUR 580 Environmental Journalism (3 units)
- PHIL 470 Environmental Ethics (3 units) (UD-C, ES, SJ)
- PLSI 354 Politics, the Environment, and Social Change (4 units) (UD-D, ES, SJ)
- WGS 593 Gender, Health, and the Environment (3 units) (UD-D, ES, GP)
Sustainability and Social Justice
ENVS 306/ECON 306 Economics and the Environment (3 units)
ENVS 460 Energy, Justice, and Sustainability (3 units)
ENVS 570 Applied Local Sustainability (3 units) (ES)
PHIL 470 Environmental Ethics (3 units) (UD-C, ES, SJ)
USP 514 Sustainable Development in Cities (4 units) (ES, SJ)
USP 515/GEOG 667 Environmental Justice: Race, Poverty, and the Environment (4 units) (ES, GR, SJ)