Ecosystems Specialization – BS (major code 865)  
(for majors declared Fall 2021 onwards)

- Courses can only be used to fulfill one requirement, even if the course is listed as an option for multiple requirements.
- Many upper level courses have prerequisites. Make sure you plan accordingly for the path you want to take.

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<tr>
<th>Requirement</th>
<th>Course Options</th>
<th>Credits</th>
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</table>
| **A. ENVI 101 – Humans & Ecological Environment** | - ENVI 101  
- AP Envi Exam score of 3, 4, or 5  
- ENVI 105 - People, Politics, & Environment (Source Project Students only)  
- PLSC 180A - People, Politics, & Environment (Source Project Students only) | 4 |
| **B. ENVI 201 – Humans & Physical Environment** | - ENVI 201  
- or AP Envi Exam score of 5 (excludes AP test taken in 2020) | 4 |
| **C. One lower-level environmental policy courses** | - ENVI/PHIL 149 Environmental Ethics  
- ENVI 230 Intro to Environmental Policy  
- ENVI/GEOG 239 Envi Plng & Policy  
- ENVI 280B Intro Int’l Envi Policy (Starting in Fall 2024, this course will be renumbered to ENVI 225.)  
- PLSC 282 Intro to Environmental Policy | 4 |
| **D. One lower-level economics courses** | - ECON 160 Microeconomics  
- ECON 162 Macroeconomics | 4 |
| **E. One introductory methods course** | - GEOG 160 or 260 or 360 GIS/Spatial Analysis  
- MATH 147 Statistics  
- MATH 148 Statistics for Biologists  

The following classes are only for FRI and Source Project students:  
- BIOL 241 Ecological Genetics FRI  
- ENVI 205 People Politics & Environ II  
- PLSC ?? People Politics & Environ II  
- ENVI 206 Geospatial Sensing FRI  
- ENVI/GEOG 234 Biogeochemistry FRI | 4 |
| **F. one lower-level chemistry requirement** | - ENVI 140 Intro Enviro Chem (Lec) + CHEM 106 (Lab)  
- CHEM 104 General Chem I (Lec) + CHEM 106 (Lab)  
- CHEM 107 Intro to Chem Prin (Lec/Lab is for Chem/BChem majors)  
- CHEM 111 Chem Principles (Lec/Lab in Fall only) | 6 |
| **G. One lower-level course related to environmental science** | Recommended as an important prerequisite for upper-level courses  
- BIOL 113 Intro to Cell & Microbiol  

Allowed:  
- BIOL 105 Evol for Everyone  
- ENVI 250 Farm to Table  
- ENVI 236/ANTH 236 Farming Thru Time  
- GEOL 111 Planet Earth  
- GEOL 112 Oceanography  
- GEOL 115 Global Change: Geol Perspt  
- GEOL 116 Geological Hazards  
- ENVI/GEOG 170 Environmental Geology  
- GEOG 120 Weather & Climate  
- GEOG 221 Global Climate Change | 4 |
### H. One lower-level science in ecosystem specialization area
- BIOL 114 Intro to Organisms & Population Bio  
4

### I. One upper-level course in ecology
- BIOL 355 Ecology  
- BIOL 373 Ecol Prin & Applications  
(Only one of these can count in the major. The other may not be used elsewhere.)  
4

### J. One additional lower-level chemistry course
Recommended as it is a prerequisite for some upper-level courses:  
- CHEM 105 General Chem II (Lec)  
4

Allowed:  
- CHEM 108 Intro Chem Prin II (Lec/Lab for Chem/BChem majors)  
- CHEM 221 Analytical Chem (Spring)  
- CHEM 231 Organic Chem I  
- ENVI 346 Envi Chem Community Water Syst  
- ENVI 347 Environ Pollution: Sci & Policy  
4

### K. Five upper-level courses in ecosystems that must total 20 credits (BIOL, GEOG, ENVI, or other related fields)
- ANTH 470 Paleoethnobotony  
- ANTH 479 Archeology of Domestication  
- BIOL 341 Ecological Genetics II FRI, if course topic is related to ecosystems  
- BIOL 351 Mechanisms of Evolution  
- BIOL 352 Marine Biology  
- BIOL 370 Botany  
- BIOL 371 Zoology  
- BIOL 375 Animal Behavior  
- BIOL 379/ENVI 357 Biol & Conserv of Birds  
- BIOL 421 Microbiol Lab  
- BIOL 441 Molecular Ecol Lab  
- BIOL 442 Mycology  
- BIOL 455 Prin of Ecosyst Eco  
- BIOL 459 Biogeography  
- BIOL 470/ENVI 430 Plant Ecology  
- BIOL 472 Tropical Ecol & Conserv  
- BIOL 473 Ecology Lab (** two credits)  
- BIOL 475 Entomology  
- BIOL 476 Population Ecol  
- BIOL 477 Conservation Biol  
- ENVI 306 Envi Visualizations FRI, if course topic is related to ecosystems  
- ENVI 322 Plants & People (** two credits)  
- ENVI 324 Urban Ecology  
- ENVI 325 Ecological Agriculture  
- ENVI 327 N’tl Hist Nature Preserve  
- ENVI 329 Ecology of Northeast  
- ENVI/GEOL 334 Biogeochem FRI, if course topic is related to ecosystems  
- ENVI 336 Sweet Harvests: Bees & Maples  
- ENVI 382G Ecosystems of Global Health  
- ENVI 382J Natural Resource Equity in Global South (Starting in Fall 2024, this course will be renumbered to ENVI 341 and renamed Intl Conservation & Development)  
20
| L. One upper-level research, teaching, and/or applied course in Ecosystems | - BIOL 455 Prin of Ecosyst Ecol  
- BIOL 470/ENVI 430 Plant Ecology  
- BIOL 472 Tropical Ecol & Conserv  
- BIOL 476 Population Ecol  
- BIOL 477 Conservation Biol  
- ENVI 382U Food Energy Water Nexus  
- ENVI 481D Forest Ecosystems & Conservation  

The following require department permission.  
- ENVI 397 Independent Study  
- ENVI 491 Undergraduate Teaching  
- ENVI 495 Environ Internship |
|---|---|
| M. One upper-level capstone course | - ENVI 413 Environ Studies Capstone  
- ENVI 382F Integrating Sustain. Science & Innovation  

The following require department permission.  
- ENVI 498 Senior Thesis  
- ENVI 499 Honors Thesis |
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<tr>
<td>Total Credits:</td>
<td>70</td>
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