Advising Sheet for (student) ________________________________ (email) _____________________________
This form to plan your course of study and keep track of your progress towards completing the major requirements.

### Core Courses (3)
- **BIOL 103** Principles of Environmental and Conservation Biology
- **EN 101** Sustainability Science: Environment, Society and Technology
- **GEOG 104** Earth Systems Science

*For students taking courses prior to 2006-07, BIOL 084 or BIOL 101 AND 102 may substitute for BIOL 103. Students taking EN 120 prior to 2007 may use this instead of EN 101.*

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<tr>
<th>Core Courses (3)</th>
<th>Semester</th>
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### Basic Skills (2; at least 1 at the 200 level)
- **ECON 160** Introduction to Statistical Analysis
- **GEOG 110** Introduction to Quantitative Methods
- **GEOG 216** Field Methods for Environ. Science
- **GEOG 247** Intermediate Quantitative Methods
- **GEOG 260** Quantitative Modeling
- **GEOG 285** Spatial Database Development
- **GEOG 282** Advanced Remote Sensing
- **GEOG 293** Introduction to Remote Sensing

*PSYC 105 may be accepted at the discretion of the ESS track advisor.*

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<th>Basic Skills (2)</th>
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### Elective Introductory Earth Systems Science Courses (4)
- **BIOL 114** Marine Biology
- **CHEM 141** Field & Lab Methods for Environmental Chemistry
- **GEOG 115** Introduction to Hydrology
- **GEOG 119** Arctic System Science
- **GEOG 116** Forest Ecology
- **GEOG 102** Weather and Climate
- **GEOG 104** Earth Systems Science
- **GEOG 206** Advanced Vector GIS

*BIOL 084 may count instead of BIOL 114 if it was taken before fall 2007.*

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<tr>
<th>Elective Introductory Earth Systems Science Courses (4)</th>
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### Skills GIScience (1)
- **GEOG 087** Intro to Environmental Info. Systems
- **ID 190** Introduction to GIS
- **GEOG 206** Advanced Vector GIS
- **GEOG 279** GIS & Accuracy Assessment
- **GEOG 282** Advanced Remote Sensing
- **GEOG 293** Introduction to Remote Sensing
- **GEOG 296** Advanced Raster GIS

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<th>Skills GIScience (1)</th>
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Elective Advanced Earth Systems Science Courses (4; at least 2 from Geography)

BIOL 201 Ecology of Atlantic Shores
BIOL 220 Population Biology
BIOL 224 Ecology of Disease Vectors
BIOL 207 Conservation Biology
GEOG 232 Landscape Ecology
GEOG 234 The Geography of Fire
GEOG 263 Climate System & Global Environ. Change
GEOG 271 Groundwater Hydrology & Management
GEOG 283 Terrestrial Ecosystem Ecol. &Atmosphere

Human-Environment Courses (2)

ECON 157 Economics of Natural Resources
EN 207 Climate Change, Energy & Development
EN 261 Decision Methods for Env. Mgmt & Policy
GEOG 126 Political Geog. of Resource Development
GEOG 136 Gender and Environment
GEOG 179 Global Environmental Justice
GEOG 180 Earth Transformed by Human Action
GEOG 224 Economy and Environment
GEOG 226 Who Fears What and Why?
GEOG 237 Feminism, Nature and Culture
GEOG 277 Gender, Environment and Development
GEOG 280 Urban Ecology: Cities as Ecosystems
PSCI 276 Environmental Law
MGMT 252 Green Business Management
PHIL 131 Environmental Ethics

Research Experience (1)
To fulfill the research experience requirement, all ESS majors must complete an independent research project, which should be conducted through a directed research (EN 299) or honors thesis (EN 297) course.

Honors (2)
If student is a candidate for honors: Students in the honors track must apply to the ES director and complete at least two semesters of independent research (EN 297).