TRACK: EARTH SYSTEMS SCIENCE FOR ACADEMIC YEAR 2008-2009

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
.

Core Courses (3) **| Semester**

_____
_____
_____

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
MATH 120 Calculus I
MATH 121 Calculus II
PSYC 105 may be accepted at the discretion of the ESS track advisor.

Basic Skills (2) **| Semester**

_____
_____

Elective Introductory Earth Systems Science Courses (4)

BIOL 114 Marine Biology
CHEM 142 Environmental Chemistry
GEOG 035 Natural Environment of New England
GEOG 101 Intro to Environmental Geology
GEOG 102 Weather and Climate
GEOG 114 Intermediate Geomorphology
GEOG 115 Introduction to Hydrology
GEOG 116 Forest Ecology
GEOG 119 Arctic System Science
BIOL 084 may count instead of BIOL 114 if it was taken before fall 2007.

Elective Introductory Earth Systems Science Courses (4) **| Semester**

_____
_____
_____
_____

Skills GIScience (1)

GEOG 087 Intro to Environmental Info. Systems
GEOG 190 Raster GIS
GEOG 206 Vector GIS
GEOG 282 Advanced Remote Sensing
GEOG 293 Introduction to Remote Sensing

Skills GIScience (1) **| Semester**

_____

Elective Advanced Earth Systems Science Courses (4; at least 2 from Geography)

BIOL 201 Ecology of Atlantic Shores
BIOL 216 Ecology
BIOL 220 Population Biology
BIOL 224 Ecology of Disease Vectors
BIOL 258 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 281 Tropical Ecology

Elective Advanced Earth Systems Science Courses (4) **| Semester**

_____
_____
_____
_____

Human-Environment Courses (2)

ECON 157 Economics of Natural Resources
EN 207 Climate Change, Energy & Development
EN 261 Decision Methods for Env. Mngmt & 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
GOVT 276 Environmental Law
MGMT 252 Green Business Management
PHIL 131 Environmental Ethics

Human-Environment Courses (2) **| Semester**

_____
_____

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.

Research Experience (1) **| Semester**

_____

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).

Honors Directed Research (2) **| Semester**

_____
_____