

# B.A. in Environmental Studies

Revised: 3/30/08

Name \_\_\_\_\_ Advisor \_\_\_\_\_

E-Mail \_\_\_\_\_ Telephone \_\_\_\_\_

## I. Foundation Courses [9]

- \_\_\_\_\_ **GES 120:** Environment Science & Conservation [3]
- \_\_\_\_\_ **GES 220:** Lab & Field Techniques for Environmental Science [4]
- \_\_\_\_\_ ...One additional laboratory or field work course from approved list [2-4]

### List of Courses to fulfill Foundation Electives:

- BIOL 100L:** Biology Laboratory [2]
- GES 405:** App. Landscape Ecology [4]
- GES 406:** Aquatic Ecology [4]
- GES 408:** Field Ecology [4]
- GES 485:** Field Research [3]

## II. Social Science and Humanities [6]

Two courses from the following:

- ECON 101:** Principles of Microeconomics [3]
- POLI 100:** American Government and Politics [3]
- ANTH 211:** Cultural Anthropology [3]
- PHIL 150:** Contemporary Moral Issues [3] *or* **PHIL 152:** Introduction to Moral Theory [3]
- HCST 100:** Human Context of Science and Technology [3]

- 1) \_\_\_\_\_ 2) \_\_\_\_\_

## III. Math and Natural Sciences [18]

- \_\_\_\_\_ **Math 150:** Precalculus [4]
- \_\_\_\_\_ **CHEM 101:** Principles of Chemistry [4] *or* **BIOL 100:** Concepts of Biology [4]
- \_\_\_\_\_ **GES 110:** Physical Geography [3]
- \_\_\_\_\_ ...One additional course from approved list of upper division physical geography or environmental science courses [3-4]

... and one course from the following:

- STAT 121:** Introduction to Statistics for the Social Sciences [4]
- STAT 350:** Statistics with Applications in the Biological Sciences [4]
- STAT 351:** Applied Statistics for Business and Economics [4]
- STAT 355:** Introduction to Probability and Statistics for Scientists & Engineers [4]
- GES 301:** Quantitative Techniques [3]

- 1) \_\_\_\_\_

### List of Courses to fulfill Math and Natural Science Electives:

- GES 302:** Selected Topics\*
- GES 305:** Landscape Ecology [3]
- GES 307:** Conservation Biology [3]
- GES 308:** Ecology [3]
- GES 310:** Geomorphology [3]
- GES 311:** Weather & Climate [3]
- GES 312:** Biochemical Cycles [3]
- GES 313:** Biogeography [3]
- GES 314:** Geography of Soils [3]
- GES 317:** Water Quality [3]
- GES 318:** Nat Env. of Chesapeake Bay [3]
- GES 319:** Ecosystems of N Am [3]
- GES 405:** App Landscape Ecology [4]
- GES 406:** Aquatic Ecology [4]
- GES 408:** Field Ecology [4]
- STAT 414:** Env. Statistics [3]

\* Selected Topics courses must have advisor approval.

## IV. Writing Requirements [3]

One course from the following:

- ENGL 383:** Science Writing [3]
- ENGL 391:** Advanced Exposition [3]
- ENGL 393:** Technical Writing [3]

- 1) \_\_\_\_\_

## V. Environmental Studies Distribution [9]

Three courses from the list at right, each from a different discipline.

- 1) \_\_\_\_\_ 2) \_\_\_\_\_ 3) \_\_\_\_\_

### List of Courses to fulfill Environmental Studies distribution:

- AMST 372:** American Food [3]
- AMST 388:** American Environments [3]
- ECON 437:** Econ of Natural Resources [3]
- ECON 439:** Environmental Economics [3]
- GES 326:** Am Conservation Thought [3]
- GES 302:** Env Sci & Reg Policy [3]
- GES 332:** Nat Resource Problems [3]
- GES 333:** Water Resources [3]
- GES 400:** Environmental Justice [3]
- HIST 369:** Darwinism Perspectives [3]
- HIST 445:** History of Science to 1700 [3]
- HIST 446:** History of Science since 1700 [3]
- PHIL 454/POLI 411:** Env Ethics [3]
- POLI 327:** Interest Groups & Lobbyists [3]

## VI. Suggested Areas of Concentration [4 courses, 12 credits]

(see attached courses list, select courses with advisor approval)

- **Regulatory Policy**
- **Business and the Environment**
- **Natural Resource Management and Conservation**
- **Risk Analysis and Policy**
- **Environmental Thought and History**

- 1) \_\_\_\_\_ 2) \_\_\_\_\_

- 3) \_\_\_\_\_ 4) \_\_\_\_\_

## B.A. Degree in Environmental Studies – Suggested Areas of Concentrations:

**Note:** Courses taken to satisfy **Section V** cannot also be used to satisfy **Section VI** requirements.

**Note:** Additional courses may be added as developed by present faculty or newly hired faculty. With the approval of their advisor, students may design an individual program of study in which courses from different tracks are combined together to for different concentrations. These lists will be modified as new courses are added or existing courses changed. Also, students will be allowed to substitute other courses in places of those listed here, in consultation with their advisors.

### Regulatory Policy

ECON 437:	Economics of Natural Resources
ECON 439:	Environmental Economics
ECON 405:	Cost Benefit Analysis
GES 302:	Environmental Science and Regulatory Policy
GES 332:	Natural Resource Problems and Policies
GES432:	Seminar in Natural Resources and Environmental Conservation
PHIL 454/POLI 411:	Environmental Ethics and Policy
POLI 327:	Interest Groups and Lobbyists
POLI 450:	Administrative Problem-Handling: Safe Drinking Water (rotating seminar topic)
POLI 469:	Comparative Environmental Politics and Policies
GES 326:	American Conservation Thought
GES 338:	Regional Planning
GES 4xx:	Planning II: Comprehensive Planning and Growth Management
GES 4xx:	Environmental Justice
GES 386:	Geographic Information Systems
STAT 414:	Environmental Statistics

### Business and the Environment

ECON 311:	Microeconomics
ECON 374:	Fundamental of Financial Management
ECON 405:	Cost Benefit Analysis
ECON 439:	Environmental Economics
ECON 411:	Industrial Organization
PHIL 454/POLI 411:	Environmental Ethics and Policy
GES 302:	Environmental Science and Regulatory Policy
GES 326:	American Conservation Thought
GES 330:	Location of Economic Activity
GES 338:	Regional Planning
GES 386:	Geographic Information Systems
GES 435:	Global Patterns of Production and Trade
GES 4xx:	Planning II: Comprehensive Planning and Growth Management
GES 4xx:	Environmental Justice

### International Environmental Issues

POLI 469:	Comparative Environmental Politics and Policies
POLI 489:	International Environmental Politics and Policies
ECON 385:	Economic Development
ECON 439:	Environmental Economics
ECON 481:	International Trade Theory or ECON 482: International Finance
GES 327:	Cultural Ecology

### Natural Management and Conservation

AMST 372:	American Food
AMST 388:	American Environments: Landscape and Culture
GES 302:	Environmental Science and Regulatory Policy
GES 308:	Conservation Biology [3]
GES 313:	Biogeography
GES 318:	Nat Environment. of Chesapeake Bay
GES 326:	American Conservation Thought
GES 332:	Natural Resource Problems and Policies
GES 333:	Water Resources
GES 386:	Geographic Information Systems
GES 432:	Seminar in Natural Resources and Environmental Conservation
GES 433:	Sustainability, Land Use and Natural Resources
GES 381:	Remote Sensing
ECON 437:	Economics and Natural Resources
ECON 439:	Environmental Economics
POLI 409/GES 400	Selected Topics: Political Dynamics of Water Resource Management
POLI 450:	Administrative Problem-Handling: Safe Drinking Water (rotating seminar topic)
POLI 481:	International Trade Theory or ECON 482: International Finance
SOCY 397A	Selected Topics: Health Issues Surrounding Pflisteria and the Chesapeake Bay

### Environmental Mapping and Spatial Analysis

ECON 421:	Introduction to Econometrics
GES 286:	Exploring the Environment: A Geo-Spatial Perspective
GES 381:	Remote Sensing
GES 383:	Statistical and Thematic Cartography
GES 386:	Geographic Information Systems
GES 481:	Advanced Remote Sensing
GES 486:	Advanced Applications of GIS
STAT 414:	Environmental Statistics
STAT 454:	Applied Statistics

### Risk Analysis and Policy

ECON 405:	Cost-Benefit Analysis
ECON 421:	Introduction to Econometrics
ECON 439	Environmental Economics
CHEM 490:	Special Topics in Chemistry: Toxicology
GES 383:	Statistical and Thematic Cartography
GES 386:	Intro to Geographic Information Systems
SOCY 397A:	Selected Topics: : Health Issues Surrounding Pflisteria and the Chesapeake Bay
STAT 350:	Statistics with Applications in Biological Sciences
STAT 414:	Environmental Statistics
STAT 454:	Applied Statistics