

^AENVIRONMENTAL STUDIES, B.A.

The Environmental Studies B.A. program is designed to meet the needs of students with an interest in the environment and how it impacts society in a multitude of ways, ranging from economics, politics, and policy, ethics, public discourse and advocacy, and the social sciences. The program offers considerable flexibility in the choice of upper-division electives, and emphasizes general skills development and exposure to the multiple aspects of environmental studies through required introductory and mid-level courses. Students who complete the program are expected to have developed a sophisticated understanding within their chosen area of concentration, underlain by a strong introduction to environmental science.

The program has been designed using a 'core-track' model, reflecting a desire to combine broad development of essential skills and knowledge with an emphasis on more rigorous training in a particular area of interest. All students must complete the Environmental Studies core requirements, and must choose at least one of the five tracks as their 'major track'. A minimum of 27 semester hours are required within the track section, including at least 15 hours within the major track.

SCIENCE AND MATH CORE: (*minimum 38 cr.*)

Physical Sciences: (minimum 11 cr.)

- EAS 101/102 Earth's Dynamic Environment/Lab I 4
- EAS 103/104 Earth's Dynamic Environment/Lab II 4

And one course from the following:

- CHEM 100 Chemistry and the Environment 3
- CHEM 1xx Any chemistry course 3-4

Life Sciences: (minimum 6 cr.)

Choose two courses from list (2xx are designed for non-science majors):

- BIOL 104 Principles of Biology I 4
- BIOL 106 Principles of Biology II 4
- BIOL 209 Our Living Environment 3
- BIOL 220 Ecological Issues and Society 3
- BIOL 234 The Diversity of Life 3
- BIOL 448 Conservation Biology (BIOL 106 prerequisite) 3

Integrative Science Courses: (6 cr.)

- EAS 260 Environmental Seminar (1cr per semester) 3
- EAS 310 Environmental Issues 3

Mathematics/Statistics: (minimum 6 cr.)

Any one course from the following:

- MATH 120 College Algebra 3
- MATH 141 Pre-Calculus 3
- MATH 142 Calculus I 4

And choose one course from the following:

- CSCI 167 Statistics and Computers 3
- DSCI 207 Intro: Business Statistics 3
- MATH 130 Elementary Statistics with Computers 3
- MATH 142 Calculus I 4
- MATH 143 Calculus II 4
- MATH 160 Computer Probability and Statistics 3
- PSY 205 Foundations of Research Methods and Statistics 3

Skill Development: (6 cr.)

- PPS 435 Introduction to GIS (or similar course) 3

^A Not yet an official degree; can write contract degrees

- CMM 120 Public Speaking (preferably env science section) 3

Internship / Capstone Course: (minimum 3 cr.)

Choose one from list:

- EAS 440 Environmental Science Capstone Project 3
- EAS 480 Internship (with approval of Program Director) 3-6

CONCENTRATIONS (minimum 27 cr.)

The concentrations are designed to combine a broad exposure to the range of ways the environment impacts society with the development of specialized understanding within a particular area. Students are required to satisfy a ‘general concentrations’ requirement of at least one course in each of the concentrations outside their major track, and a ‘major track’ requirement of 15 semester hours within their chosen concentrations. Specific rules apply to the selection of courses that satisfy the general concentrations or major track requirements (see below).

Courses within the concentrations are designated by tiers. First Tier courses are typically introductory or have a specific application to environmental studies, and are eligible for credit towards completion of the general concentrations requirement. Second Tier courses are intended to provide more rigorous training within a given concentration, and are generally more suitable for students who have selected that concentration as their major track.

Courses used to satisfy the environmental studies program core requirement may not be applied towards the general concentration or major track requirements. However, courses that satisfy the College of Arts and Sciences core requirements may also be applied towards the environmental studies program requirements.

General concentration requirement: All students must earn credit for at least one First Tier course in each of the concentrations. Any First Tier course in concentrations other than the major track, can be used to satisfy the general concentrations requirement.

Major track requirement: Certain First Tier courses (denoted by ‘*’) are required for concentrations chosen as a student’s major track. A minimum of 9 semester hours credit is required from Second Tier courses. No more than 9 credits from an individual department may be applied towards the major track requirement. *Special rules for students with two major tracks:* Students who choose to select two major tracks may apply a maximum of 12 semester hours credit from an individual department towards completion of both tracks. One Second Tier course may be applied simultaneously towards the completion requirements of both major tracks.

Philosophy, Religion, and Ethics

First Tier

- PHIL 342 Environmental and Ecological Ethics 3
- THEO 356 Religion and Science 3*
- PHIL 360 Science and Religion 3*
- THEO 366 Faith and Politics 3
- THEO 368 Green Discipleship 3

Second Tier

- BIOL 256 Evolution and Christian Theology 3
- PHIL 407 Reasoning: Probability and Uncertainty 3
- PHIL 415 Philosophy of Physical Sciences 3
- PHIL ??? Philosophy of Biology 3
- SOC 220 Cultural Anthropology (SOC120 prereq waived) 3
- SOC 221 Biological Anthropology (SOC120 prereq waived) 3
- THEO 361 Social Justice 3
- THEO 469 Faith and Politics 3
- THEO 493 Theology of Nature 3

Economics, Politics, and Public Policy

First Tier

- ECON 190 Principles of Economics 3*
- POLS 110 American Political System 3
- PLS 350 Environmental Law 3
- PPS 400 Politics and Ecology 3

Second Tier

• CMM 347	Political Communication	3
• CMM 420	Problem-Solving in Small Groups (prereq waived)	3
• CMM 465	International Public Relations	3
• ECON 314	Intermediate Microeconomics	3
• POLS 260	Introduction to International Political Economy	3
• POLS 342	Introduction to Administrative Law	3
• POLS 357	Third World Development	3
• POLS 360	Problems of Globalization	3
• POLS 364	International Law	3
• POLS 373	Contemporary Political Ideologies	3
• POLS 470	Seminar: Politics, Rhetoric and Culture	3
• POLS 473	Seminar: Contemporary Political Ideologies	3

Society and the Environment Through Space and Time

First Tier

• SOC 118	World Geography	3*
• SOC 220	Cultural Anthropology (SOC120 prereq waived)	3
• SOC 347	Environmental Anthropology	3
• HIST 1xx	Environmental History of the United States	3

Second Tier

• CMM 440	Mass Communication & Society	3
• EAS 325	Global Change	3
• POLS 357	Third World Development	3
• POLS 360	Problems of Globalization	3
• POLS 364	International Law	3
• POLS 397	Metropolitan Environment	3
• POLS 462	Seminar: International Organization	3
• POLS 473	Seminar: Contemporary Political Ideologies	3
• PPS 537	Intermediate GIS	3
• SOC 221	Biological Anthropology (SOC120 prereq waived)	3
• SOC 321	Demography: Pop. Characteristics & Trends	3
• SOC 454	Environmental Impact of The City	3

Advocacy and Discourse

First Tier

• CMM 210	Journalism: News writing	3
• CMM 323	Business and Professional Writing	3
• ENGL 390	The Critical Essay: Theory and Practice	3
• CMM 305	Argumentation and Debate	3
• CMM 347	Political Communication	3

Second Tier

• CMM 305	Argumentation and Debate	3
• CMM 320	Organizational Communication	3
• CMM 323	Business and Professional Writing	3
• CMM 347	Political Communication	3
• CMM 360	Public Relations and Practices	3
• CMM 409	Theories of Persuasion	3
• CMM 420	Problem-Solving in Small Groups	3

• CMM 440	Mass Communication & Society	3
• CMM 443	Culture, Technology, and Communication	3
• CMM 464	Public Relations Case Studies	3
• CMM 465	International Public Relations	3
• ENGL 303	Creative Writing: Prose Nonfiction	3
• ENGL 358	Literature of the Natural World	3
• ENGL 390	The Critical Essay: Theory and Practice	3
• PHIL 344	Disaster Narratives	3
• POLS 470	Seminar: Politics, Rhetoric and Culture	3

Natural Sciences

First Tier

• EAS 1xx	Sustainable Energy Resources for the Future	3
• EAS 325	Global Change	3*
• BIOL 209	Our Living Environment	3
• BIOL 220	Ecological Issues and Society	3
• BIOL 234	The Diversity of Life	3
• BIOL 250	Economic Botany	3
• BIOL 264	Microbes, History, and Society	3
• BIOL 270	Plants and Cultural Diversity	3

Second Tier

- Any BIOL, CHEM, and EAS courses included in the Environmental Science program tracks are accepted in this track. (Note that many upper-division science courses have BIOL 104 and 106, CHEM 163 to 166, and/or MATH 142 as pre-requisites.)

College Core Requirements

Many of the courses included in the Environmental Studies program satisfy the core requirements of the College of Arts and Sciences. Depending on the track of study and individual courses chosen by a student, the number of core requirements that need to be satisfied after satisfying the degree requirements might vary. Below gives the range in values.

	Satisfied in major?
Foreign Language (9 credits)	
• xx 110	No
• xx 115	No
• xx 210	No
Literature (6 credits)	
• ENGL 2xx	No
• ENGL 3xx or 4xx	Potentially
Theology (9 credits)	
• THEO 100	No
• THEO 2xx	No
• THEO 3xx	Potentially
Philosophy (9 credits)	
• PHIL 105	No
• PHIL 205	No
• PHIL 3xx or 4xx	Potentially
Social Sciences (6 credits)	
• xx	Most likely
• xx	Most likely
History (6 credits)	
• HIST 111	No
• HIST 112	No
Mathematics (3 credits)	Yes
Sciences (6 credits)	
• xx	Yes
• xx	Yes
Fine and Performing Arts (3 credits)	No
Cultural Diversity (3 credits)	Potentially
Potential Reduction in Credit =	27
CAS Core credits remaining =	33