

ENVIRONMENTAL SCIENCE MAJOR (BS)

Department of Environmental Studies and Science (<https://catalog.washcoll.edu/catalog/departments-programs/environmental-science-studies/>)
Division of Natural Sciences and Mathematics

The Environmental Science major (B.S.) evaluates the interactions of humans and the natural world through an interdisciplinary scientific lens. The Environmental Science major prepares students to critically analyze and investigate potential solutions to local, regional, and global environmental issues.

Environmental Science Major (B.S.) Requirements

Code	Title	Credits	Notes
Introductory Courses		8	
ENV 101 & ENV 102	Intro to Environmental Studies with Lab and Intro to Environmental Studies Lab		
ENV 117	Intro Env & Natural Resource Economics		
Introductory Science Sequences		16	
BIO 111 & BIO 113	General Biology I with Lab and General Biology I Lab		
BIO 112 & BIO 114	General Biology II with Lab and General Biology II Lab		
CHE 120 & CHE 122	Chem Principles Org Molecules with Lab and Chemical Principals Orgnc Molecules Lab		
CHE 220 & CHE 222	Quantitative Chemical Analysis with Lab and Quantitative Chemical Analysis Lab		
Environmental Science Lab-based Courses		20	
ENV 141	Atmosphere, Ocean & Environment w/Lab		
ENV 242	Applied Ecology		
CHE/ENV 210	Environmental Chemistry with Lab		
ENV 311	Field Methods in Environmental Science		
ENV 312	Watershed Biogeochemistry		
Select 3 Science Courses From Below ¹		12	
ENV/BIO 221	The Bermuda Environment (summer course)		
ENV 240	Earth and Planetary Systems with Lab		
ENV 244	Environmental Communication ²		
ENV 302	Conservation & Wildlife Techniques		
ENV 305	Marine Conservation		
ENV 313	Wetlands Ecology w/ Lab		
ENV 314	Energy and the Environment ²		
ENV 315	Restoration Ecology		
ENV 319	Sustainability & the Environment ²		
ENV 320	Climate Change		
ENV 294	Special Topics (with approval of the Chair, possibility of a lab)		
ENV 394	Special Topics (with approval of the Chair, possibility of a lab)		

BIO 309	Marine & Estuarine Bio with Lab	_____
BIO 328	Behavioral Ecology with Lab	_____
CHE 310	Greener & Sustainable Chemistry ²	_____
Select 1 Mathematics Course From Below		4
MAT 106 & MAT 107	Stretch Differential Calculus I and Stretch Differential Calculus II	_____
MAT 109	Statistical Inference & Data Analysis I	_____
MAT 111	Differential Calculus (recommended for students planning to attend graduate school)	_____
Junior and Senior Seminar		2
ENV 392	Environmental Studies Junior Seminar (1-credit)	_____
ENV 491	Environmental Studies Senior Seminar I (1 credit)	_____
Senior Capstone Experience (ENV SCE)		2-4
Total Credits		64-66

¹ At least two courses must be ENV; only one can be non-lab based (marked with a [2]):

² non-lab based

Advising notes for the Environmental Science B.S.

Students pursuing a physics track within the environmental science major can substitute PHY 111 General Physics I with Lab and/or PHY 112 General Physics II with Lab for one or two courses in the major, after consultation with and written approval from an ENV Department Chair.

Students who double major in Environmental Science and Biology can double count a maximum of 4 courses (3 Required Courses: BIO 111/BIO 113, BIO 112/BIO 114, BIO 206 or ENV 242; Elective Courses: 1 upper-level elective) towards their double major.

Students majoring in Environmental Science and minoring in Biology can double count a maximum of 3 courses (BIO 111/BIO 113 & BIO 112/BIO 114 plus 1 approved upper-level BIO or ENV elective) towards their Environmental Science major and BIO minor.

Students majoring in Environmental Science or Biology should plan to take either BIO 206 Ecology with Lab or ENV 242 Applied Ecology. Only one of the two courses will count towards your ENV and BIO major.

To complete the Biology minor, an additional 4 upper-level BIO course is required. Students should plan to take ENV 242 Applied Ecology and not BIO 206 Ecology with Lab.

Students majoring in Environmental Science and minoring in any discipline can double count a maximum number of courses, based on the total number of courses required for the minor, as detailed below:

- 5 course minor: 1 course overlap with Environmental Science major
- 6 course minor: 2 course overlap with Environmental Science major
- 7 course minor: 3 course overlap with Environmental Science major

Students majoring in Environmental Science and who study abroad can transferring in a maximum of two upper level elective classes towards their Environmental Science degree from their study abroad institution.

Major

- Environmental Studies Major (BA) (<https://catalog.washcoll.edu/catalog/departments-programs/environmental-science-studies/environmental-studies-ba/>)

Minor

- Chesapeake Regional Studies Minor (<https://catalog.washcoll.edu/catalog/interdisciplinary/chesapeake-regional-studies-minor/>)
- Environmental Studies Minor (<https://catalog.washcoll.edu/catalog/departments-programs/environmental-science-studies/environmental-science-studies-minor/>)
- Museum, Field, and Community Education Minor (<https://catalog.washcoll.edu/catalog/interdisciplinary/museum-field-community-education-minor/>)

Certificate

- Secondary Education Certification Program (<https://catalog.washcoll.edu/catalog/departments-programs/education/secondary-education-certification-program/>)