The Environmental Science Major
The Environmental Science major requires students to take a total of 20 courses, 14 of which have an environmental focus and 6 of which are background science courses. Of the 14 environmentally focused courses, 6 are required core science courses. Additionally, students are to take two environmental studies courses and 6 courses in their environmental concentration area/track (Restoration Ecology or Hydrology and Aquatic Systems or Energy Resources)

F – offered in the Fall semester
S – offered in the Spring semester
B – offered in both semesters
This notation is not a guarantee that the course is offered in the indicated semester. It is only a notation of when the course is typically offered. Please consult the Course Schedule listing on the Office of the Registrar’s Website.

* denotes courses that have prerequisites

Science Background Courses (6 courses):
Chem 121 B, 122* S
Math 161, 162* - B
Math 186* - B
Physics 111* - F or 131* - B

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**Environmental Science Core (6 courses):**

- EVST 100 An Introduction to the Environment - F
- Biol 234 Environmental Biology* - F or Biol 272 Conservation Biology* - F
- Chem 252 Environmental Chemistry* - F or CE 321 Introduction to Environmental Engineering and Science* - F
- Geol 110 Environmental Geology - S or Geol 120 Geologic Disasters: Agents of Chaos - F
- EVST 290 Climate Change the Facts, the issues, the Long-Term View - S
- or Geol 115 Earth: Evolution of a Habitable Planet - F
- EVST 400 Environmental Studies Praxis – F (normally)

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**Environmental Studies (choose 2 courses):**

- A&S 201 Culture and the Environment - S
- Econ 202 Environmental Economics* - S
- EGRS 230 Environmental Justice – no regular cycle
- Eng 276 Literature of the Sea - F
- Eng 351 Environmental Writing* - S
- EVST 215 Environmental Policy* - S
- EVST 220 People, Places and Environments of the Mid-Atlantic - S
- EVST 230 Water Problems, Water Solutions - S
- EVST/WGS 253 Gender, Race, and Environmental Justice - S – odd years
- EVST 254 Cultures of Nature F – odd years
- EVST 310 Organizations and the Environment* - F
- EVST/ FAMS 363 Green Screen Film and The Environment* - F – even years
- EVST/EGRS 373 Technology and Nature* - S
- ART/EVST 250 Art and Environment - F
- Govt 231 Global Environmental Politics* - F
- Hist 252 Transformation of the American Environment - S
- Phil 155 Environmental Ethics – S – odd years
- WGS 204 Gender & Environmentalism – F

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Concentration Areas/Tracks: (6 courses in concentration area)

(1) Restoration Ecology OR (2) Hydrology and Aquatic Systems OR (3) Energy Resources

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(1) Restoration Ecology Concentration (6 courses)
(Note: students pursuing this track cannot double count Biol 272 as a required course and a core science course)

Required courses
- Biol 231 Ecology* - S
- Biol 272 Conservation Biology* - F
- Geol 300 Earth Surface Processes* - S

Elective courses (In addition to the three required courses above, students must take any 3 courses from the list below)

- Biol 215 Phytopathology* - F
- Biol 224 Plant Form, Function, and Adaption* - S
- Biol 225 Microbiology* Every 3rd semester
- Biol 275 Behavioral Ecology* S
- Biol 332 Advanced Aquatic Ecology* F
- Biol 341 Environmental Issues in Aquatic Ecosystems* F
- CE 351 Water Resources Engineering* - S
- CE 421 Hydrology* - F – odd years
- CE 422 Environmental Site Assessment* - S
- CE 423 Water Quality * - S – odd years
- CE 425 Water Supply and Pollution Control* - S – odd years
- CE 451 Open Channel Flow* - S – odd years
- Geol 205 Oceanography* - S
- Geol 210 Hydrogeology* - F
- Geol 229 Geographical Information Systems and Remote Sensing in Geosciences* - F
- Geol 300 Earth Surface Processes* - S
- Geol 321 Geochemistry* - S even years
2) Hydrology and Aquatic Systems Concentration (6 courses)

**Required** (at least one from each set)
Groundwater course (Geol 210* - F)
Surface water course (Geol 300 - S or CE 421* - F – **odd years** or CE 423*- S – **odd years** or CE 351* - S)
Aquatic biology course (Biol 231*- S or Biol 332*- F every other year or Biol 341* - F)

**Elective courses** (In addition to three required courses selected above, students must take any 3 courses from the list below)

**Ecology**
Biol 231 Ecology* S
Biol 332 Advanced Aquatic Ecology* F – **odd years**
Biol 341 Environmental Issues in Aquatic Ecosystems* F

**Physical Flow Systems**
CE 351 Water Resources Engineering* - S
CE 421 Hydrology* - F – **odd years**
CE 451 Open Channel Flow* - S – **odd years**
ChE 211 Material and Energy Balances* - F
Geol 210 Hydrogeology* - F
Geol 300 Earth Surface Processes* - S

**Marine Systems**
Geol 205 Oceanography* - S – **even years**
Geol 315 Paleoclimatology and Paleoceanography* - S **odd years**

**Water Quality**
CE 423 Water Quality* - S – **odd years**
CE 425 Water Supply and Pollution Control* - F – **odd years**
Chem 252 Environmental Chemistry* - F
Geol 321 Geochemistry* - S – **even years**

**Toolbox Courses**
CE 321 Introduction to Environmental Engineering and Science* - F
Chem 231 Analytical Chem I* - F
Geol 229 Geographical Information Systems and Remote Sensing in Geosciences* - F
Geol 322/CE464 Environmental Geophysics* - S – **even years**
(3) **Energy Resources Concentration (6 courses)**

**Required**
ChE 211 Material and Energy Balances* - F
EGRS 352 Energy, Technology, and the Modern World* - S
Thermodynamics (ChE 222* or ME 354*) – F (both courses)

**Elective courses** (In addition to the three required courses selected above, students must take any 3 courses from the list below)

Fluid Mechanics (CE251* or ME 362*) – CE251 - F/ME362 - S
CE 351 Water Resources Engineering* - S
CE 421 Hydrology* - F – odd years
ChE 311 Transport Phenomena*- F
ChE 370 Alternative Energy Resources*- S
Geol 215 Modern and Ancient Depositional Environments*- S
Geol 229 Geographical Information Systems and Remote Sensing in Geosciences*- F
Geol 317 Tectonics and Structure of the Earth*- F
Geol 322/CE 464 Environmental Geophysics*- S
ME 470 Heat Transfer*- F
ME 475 Thermal/Fluids Systems*- S
ME 483 Power Plants* - **no regular cycle**