

**BARNARD COLLEGE**  
**Courses Recommended for the Minor in Environmental Science**

Students wishing to minor in Environmental Science should have a plan approved by the Environmental Science Department Minor Advisor, Sedelia Rodriguez (srodrigu@barnard.edu) by the end of their junior year. 5 courses are required, meeting the following criteria:

- At least 3 of the 5 courses taken at Barnard/Columbia
- 1 laboratory science course
- 4 electives
  - 3 credits per course or higher
  - 3 courses at 3000 level or above
  - At least 2 courses based in the natural sciences

Elective courses listed below may be substituted only with the approval of the Minor Advisor. Please note that many of the courses below are not offered every year.

<b>Student Name:</b>	<b>Major:</b>	<b>Class of:</b>
<b>E-mail:</b>	<b>Phone:</b>	
<b>Adviser(s):</b>	<b>Meeting Dates:</b>	

**Laboratory Science Courses**

Course Titles	Course No.	Intended	Completed
Introduction to Environmental Science I ** + Lab (EESC BC1011)	EESC BC1001x		
Earth, Origin, Evolution, Processes, Future ** (includes lab)	EESC UN1011y		
Earth's Environmental Systems: Climate + lab	EESC UN2100x,y		
Earth's Environmental Systems: Solid Earth + lab	EESC UN2200x,y		
Earth's Environmental Systems: Life + lab (for students not planning on continuing in Biology)	EESC UN2300y		
**(If taken before Earth's Environmental Systems, UN2100, UN2200, or UN2300)			

**Natural Science Electives**

Ecology	BIOL BC2272x		
Microbiology	BIOL BC3320x		
Alternative Energy Resources	EAAE E2002x		
Conservation Biology	EEEB UN3087		
Conservation and Preservation	EESC BC3001		
Brownfields	EESC BC3012y		
Shorelines and Streams	EESC BC3013y		
Field Methods in Environmental Science	EESC BC3014x		
Environmental Measurements	EESC BC3016x		
Environmental Data Analysis	EESC BC3017x		
Forests and Environmental Change	EESC BC3021x		
Hudson River: The Estuary, the River, Our Environment	EESC BC3023x		
Hydrology	EESC BC3025x		
Land-use, Bird and Plant Dynamics	EESC BC3026y		

Agricultural and Urban Land Use	EESC BC3032y		
Waste Management	EESC BC3033x		
Water, Sanitation and Health	EESC BC3043y		
Big Data with Python: Python for Environmental Analysis and Visualization	EESC BC3050y		
Earth Resources and Sustainable Development	EESC UN1600x		
Science for Sustainable Development	EESC UN2330x		
Fundamentals of Global Health	PUBH UN3100		
GIS for Sustainable Development	SDEV UN3390		
Spatial Analysis and Modeling for Sustainable Development	SDEV UN3450		
GIS Methods and Case Studies	URBS UN3200		

## Other Electives

Anthropological Anthropocene	ANTH BC3861		
Climate Change, Global Migration & Human Rights in the Anthropocene	ANTH BC3932		
Culture and Environmental Behavior	ANTH V3971		
Environment and Development	ANTH BC3973y		
Political Ecology	ANTH UN4022		
City, Landscape, and Ecology	ARCH UN3120		
Nature & Power, Environmental History in North America	CSER UN3222		
Environment & Natural Resource Economics	ECON BC3039		
Environmental and Natural Resource Economics	ECON BC3039		
The Global Economy	ECON UN2257		
Economics of the Environment	ECON UN4625y		
Environmental Law	EESC BC3040y		
Workshop in Sustainable Development	EESC BC3300x		
History of Environmental Thinking	HIST BC4909		
America and the Natural World	HIST UN3938y		
Environmental Politics	POLS V3212y		
US Water and Energy Policy	SDEV GU4050		
Public Lands in American West	SDEV GU4350		
Environmental Policy and Governance	SDEV UN2050		
Challenges of Sustainable Development	SDEV UN2300		
Economics and Financial Methods for Sustainable Development	SDEV UN2320		
Global Food Systems	SDEV UN3200		
Ethics of Sustainable Development	SDEV UN3310y		
Ecological and Social Systems for Sustainable Development	SDEV UN3330		
Climate Change and Law	SDEV UN3355		
Disasters and Development	SDEV UN3360		
Human Populations and Sustainable Development	SDEV UN3400		
Urbanization and Sustainability	SDEV UN3410		
Spatial Analysis and Modeling for Sustainable Development	SDEV UN3450		
Environmental Sociology	SOCI W3290		
Urban Ecology & Grand Infrastructure	URBS UN3464		