

DEPARTMENT OF ENVIRONMENTAL SCIENCE - SPRING 2025 SCHEDULE

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:40 9:55			EESC BC3029* Bermuda: Case Studies M. Stute, T. Maenza-Gmelch		
8:40 11:10					EESC BC3040 Environmental Law D. Neacsu
10:10 11:25	EESC BC3050 Big Data with Python B. Mailloux	EESC UN3109 Climate Physics Sobel	EESC BC3050 Big Data with Python B. Mailloux	EESC UN3109 Climate Physics Sobel	
10:10 11:25		SDEV UN2300 Challenges of Sustainable Dev L. Dale		SDEV UN2300 Challenges of Sustainable Dev L. Dale	
10:10 11:25	SDEV UN3450 Spatial Analysis for SDEV K. MacManus	SDEV UN3390 GIS for Sustainable Development L. Pistolessi	SDEV UN3450 Spatial Analysis for SDEV ContinuesThursdays	SDEV UN3390 GIS for Sustainable Development L. Pistolessi	
11:25 12:25			SDEV UN3450 Spatial Analysis for SDEV (until 12:25) K. MacManus	SDEV UN3390 GIS for Sustainable Development L. Pistolessi	
10:10 11:25		EESC UN2100 Earth's Enviro. Systems: Climate G. Winkler, M.Ting		EESC UN2100 Earth's Enviro. Systems: Climate G. Winkler, M.Ting	
10:10 11:25		URBS UN2200 Intro. To GIS Methods C. Siener		URBS UN2200 Intro. To GIS Methods C. Siener	
10:10 11:25		EESC GU4924 Intro to Atmospheric Chem Commane		EESC GU4924 Intro to Atmospheric Chem Commane	
11:40 12:55		EESC GU4560 Ecology of a Treeline Griffin		EESC GU4560 Ecology of a Treeline Griffin	
11:40 12:55	EESC UN2300 Earth's Enviro. Systems: Life P.Olsen, M.Palmer, Dhyman	EESC UN3201, Solid Earth Dynamics**** M. Nettles	EESC UN2300 Earth's Enviro. Systems: Life P.Olsen, M.Palmer, Dhyman	EESC UN3201, Solid Earth Dynamics**** M. Nettles	
11:40 12:55	SDEV UN2000 Intro to Environmental Law P. Weinberg	EESC GU4926 Chemical Oceanography Anderson	SDEV UN2000 Intro to Environmental Law P. Weinberg	EESC GU4926 Chemical Oceanography Anderson	
12:00 1:00		<i>Faculty/Staff DEPT MEETINGS</i>			
1:10 3:00		EESC BC3027 Urban Ecosystems E. Cook		EESC BC3027 Urban Ecosystems E. Cook	
1:10 3:40			EESC BC3026 Bird, Plants & Land-use Dynamics T. Maenza-Gmelch		
1:10 2:25		EESC BC3028 Volcanoes & the Environment S. Rodriguez		EESC BC3028 Volcanoes & the Environment S. Rodriguez	

1:10 2:25		EESC GU4009 Chemical Geology Moussallam		EESC GU4009 Chemical Geology Moussallam	
1:10 2:25		EESC GU4243 Climate Prediction Challenges McKinley		EESC GU4243 Climate Prediction Challenges McKinley	
1:10 2:25		EESC GU4937 Cenzoic Paleoceanography Hönisch, Raymo		EESC GU4937 Cenzoic Paleoceanography Hönisch, Raymo	
1:10 2:25		EESC GU4085 Geodynamics Buck		EESC GU4085 Geodynamics Buck	
2:10 4:00		SDEV GU4400 Sust Dev: Rwanda Dale		SDEV GU4400 Sust Dev in Rwanda Dale	
2:40 3:55		EESC BC2201 UN2200 Earth's Enviro. Syst.—Solid Earth S. Rodriguez Goldstein, Hemming,		EESC BC2201 EESC UN2200 Earth's Enviro. Syst.—Solid Earth S. Rodriguez Goldstein, Hemming	
2:40 3:55	EAAE E2002 Alternative Energy Resources D. Steingart	EESC GU4630 Air-Sea Interaction Zappa	EAAE E2002 Alternative Energy Resources D. Steingart	EESC GU4630 Air-Sea Interaction Zappa	
2:50 4:10	SDEV UN3355 Climate Chance and Law M. Gerrard		SDEV UN3355 Climate Chance and Law M. Gerrard		
4:10 5:25	PUBH UN3100 Fundamentals of Global Health R. Moresky		PUBH UN3100 Fundamentals of Global Health R. Moresky		
4:10 6:00	SDEV GU4050 US Water & Energy Policy P. Gally			EESC BC3801 Senior Research Seminar II Cook, Stute, Lampert,Hemmings, Raymon, Palmer <i>et. al.</i>	
4:10 7:00		EESC UN2100 Earth's Env. Sys— Climate LAB			
4:10 7:00		EESC UN2200x Earth's Env. Sys — Solid Earth LAB	EESC UN2310 Earth's Env.Sys— Life LAB (3 secs)	EESC UN2310 Earth's Env.Sys— Life LAB (2 secs)	
5:30 7:00					EESC UN1010* Death Valley Field Kolawole
6:10 7:25	URBS UN3451 Urban Env Justice M. Hernandez		URBS UN3451 Urban Env Justice M. Hernandez		
7:10 8:25				EAAE E4009*** GIS-Research Enviro. Infrastructure	
7:30 9:20		EESC UN3010* Field Geology (Italy) Goldstein, Hemming			
8:40 9:55			EAAE E4009*** GIS-Research Envir Infrast.Mgt LAB	EAAE E4009*** GIS-Research Env Infrst Mgt Lab (opt)	

Additional information to be announced:

***Field Courses:** must be applied for and have student contribution. Contact the instructor about your interest:

EESC BC3029, Bermuda Case Studies, 3 pts, Martin Stute, Terryanne Maenza-Gmelch, has an application deadline of Friday, November 1. Info Session was Wednesday, October 9, LL001 Milstein. Funding is partially covered by Barnard, but remaining student fees to cover a portion of the costs: approx. \$600, though scholarships are available for high-financial-need-students for international travel through Barnard Global.

EESC UN1010, Field Excursion to Death Valley, 2 pts, Fola Kolawole—open to First-Year and Sophs only—meets January - March, followed by Spring Break Field Trip, March 15-22. A spring-break excursion focused on the geology of Death Valley and adjacent areas of the eastern California desert. Discussion sessions ahead of the trip provide necessary background. *Early applications advised, but due by **Nov. 8***. (See <https://eesc.columbia.edu/content/eesc-un1010> for details). Funding is partially covered by the department, but remaining student fees to cover a portion of the costs: approx. \$600.

EESC UN3010, Field Geology (Italy), Steve Goldstein, Sidney Hemming. Students **must** have an interest and prior coursework in geology. If you are interested in taking this course, please email Professor [Steve Goldstein](#) and Sidney Hemming. This is a field geology course focusing on the Apennine Mountains of central Italy, where a developing “accretionary prism” (associated with oceanic crust subduction) can be observed directly. Students will learn how to interpret the evolution of paleo-environments from the sediment lithologies, textures, fossils, compositions; and the tectonic history from the present day spatial and structural relationships. The rocks range from early Mesozoic oceanic crust and sediments to late Cenozoic sediments impacted by the rise of the Alps. The course visits several classic geological localities, including the Gubbio site of the discovery that the dinosaur extinction was caused by a meteorite, a Carrara Marble quarry (favored by Michelangelo for his sculptures), evaporite sediments from the dry-down of the Mediterranean, the magnificent Frasassi Cave, and a region that suffered much damage from recent earthquakes.

Funding is partially covered by the department, but remaining student fees to cover approximate cost of airfare.

TBA:

EESC GU4210, Geophysical Fluid Dynamics, Time & Instructor *TBD*

EESC GU4235, Sea Level Change, Time & Instructor *TBD*

****SDEV** courses have limits in size and priority given to Columbia Sustainability Majors. All students enroll via a waitlist. We recommend you reach out directly to the instructor about your major and interest in the course.

*****EAEE** E4009, GIS-Research Enviro. Infrastructure Management, is open to Barnard students. Register for Wednesday’s Lab, the Thursday lab is optional. Let us know if you have trouble enrolling.

N.B. Some courses, particularly upper-level, graduate-level, and Engineering (EAEE) courses have pre-requisites. Consult the catalogue, your adviser, or the department to ensure that you’ve completed pre-requisites before finalizing your program. Courses in Environmental Health (EHSC) held at the School of Public Health campus, with the exception of P6300, have prerequisite of 2 years of Chemistry, 1 year of Biology and calc. To enroll in any International Affairs (SIPA) class, you prior approval from Dean Youngblood Giles at Beyond Barnard. Check the *Directory of Classes* for more info from Anthropology, Economics, Political Science, Sustainable Development, and Urban Studies or any updates we may forward to you. If you are interested in a seminar course outside of your major, do contact the instructor and advocate as to your readiness and interest in the course.

Updated 11/04/24