

NATURAL RESOURCES & ENVIRONMENTAL SCIENCES: ENVIRONMENTAL SCIENCE & MANAGEMENT, BS

for the degree of Bachelor of Science Major in Natural Resources & Environmental Sciences, Environmental Science & Management Concentration

department website: <https://nres.illinois.edu/>
 department faculty: <https://nres.illinois.edu/directory/faculty>
 overview of college admissions & requirements: **Agricultural, Consumer & Environmental Sciences** (<http://catalog.illinois.edu/schools/aces/academic-units/#text>)
 college website: <https://aces.illinois.edu/>

Environmental Science and Management emphasizes the biological, chemical, and physical features of the environment. It is designed for students interested in the management of soil and water resources and in understanding how to protect and improve environmental quality. The concentration includes coursework in environmental chemistry, environmental microbiology, ec hydrology, and environmental quality, as well as courses focused more specifically on soil and water sciences.

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Prescribed Courses including Campus General Education

Code	Title	Hours
Composition I and Speech		
Select one of the following:		6-7
RHET 105	Writing and Research & CMN 101 and Public Speaking (or equivalent) (see College Composition I requirement)	
CMN 111	Oral & Written Comm I & CMN 112 and Oral & Written Comm II	
Advanced Composition		
Select from campus approved list		3-4
Cultural Studies		
Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists.		9
Foreign Language		
Coursework at or above the third level is required for graduation.		
Quantitative Reasoning I		
Select one of the following:		4-5
MATH 220	Calculus	
MATH 221	Calculus I	
MATH 234	Calculus for Business I	
Quantitative Reasoning II		
Select one of the following:		3-4

ACE 261	Applied Statistical Methods	
CPSC 241	Intro to Applied Statistics	
ECON 202	Economic Statistics I	
PSYC 235	Intro to Statistics	
SOC 280	Intro to Social Statistics	
STAT 100	Statistics	
Natural Sciences and Technology		
CHEM 102 & CHEM 103	General Chemistry I and General Chemistry Lab I	4
CHEM 104 & CHEM 105	General Chemistry II and General Chemistry Lab II	4
IB 103	Introduction to Plant Biology	4
Select one of the following:		4-5
IB 150 & IB 151	Organismal & Evolutionary Biol and Organismal & Evol Biol Lab or IB 104 Animal Biology	
Select one of the following:		3-5
GEOG 103	Earth's Physical Systems	
GEOL 107	Physical Geology	
PHYS 101	College Physics: Mech & Heat	
PHYS 211	University Physics: Mechanics	
MCB 100	Introductory Microbiology	
Humanities and the Arts		
Select from campus approved list.		6
Social and Behavioral Sciences		
ACE 100	Agr Cons and Resource Econ or ECON 102 Microeconomic Principles	3-4
Select one additional course from campus approved list.		3-4
Natural Resources and Environmental Sciences Required (Core)		
NRES 102	Introduction to NRES	3
NRES 201	Introductory Soils	4
NRES 219	Principles of Ecosystem Mgmt	3
NRES 287	Environment and Society	3
NRES 325	Natural Resource Policy Mgmt	3
NRES 348	Fish and Wildlife Ecology	3
NRES 421	Quantitative Methods in NRES	3
NRES 454	GIS in Natural Resource Mgmt	4
NRES 456	Integrative Ecosystem Management	3
NRES 285	Field Experience	1,2
One additional Field Experience course		1-2
NRES 285	Field Experience (repeatable)	
NRES 293	Professional Internship	
NRES 294	Resident Internship	
NRES 295	Undergrad Research or Thesis	
ACES Required		
ACES 101	Contemporary Issues in ACES	2
Required Concentration		
Concentration prescribed courses. See specific requirements for each concentration listed below.		19-29
Total Hours		126

Code	Title	Hours
Concentration Core Requirements		
NRES 351	Introduction to Environmental Chemistry	3
NRES 402	Ecohydrology and Water Management	3
NRES 475	Environmental Microbiology	3
Concentration Elective Requirements		
Two Soil and Water Science Courses		6-8
NRES 401	Watershed Hydrology	
NRES 429	Aquatic Ecosystem Conservation	
NRES 471	Pedology	
NRES 485	Stream Ecosystem Management	
NRES 487	Soil Chemistry	
NRES 488	Soil Fertility and Fertilizers	
NRES 490	Surface Water System Chemistry	
ABE 454	Environmental Soil Physics	
GEOG 406	Fluvial Geomorphology	
GEOG 459	Ecohydraulics	
One Environmental Quality Course		3-4
NRES 403	Watersheds and Water Quality	
NRES 438	Soil Nutrient Cycling	
NRES 474	Soil and Water Conservation	
CPSC 336	Tomorrow's Environment	
CPSC 431	Plants and Global Change	
TSM 352	Land and Water Mgt Systems	
UP 405	Watershed Ecology and Planning	
ATMS 449	Biogeochemical Cycles	
ESE 320	Water Planet, Water Crisis	
GEOL 380	Environmental Geology	
IB 485	Environ Toxicology & Health	
Total Concentration-Required Hours		18-21