

NATURAL RESOURCES & ENVIRONMENTAL SCIENCES: ECOSYSTEM STEWARDSHIP & RESTORATION ECOLOGY, BS

for the degree of Bachelor of Science Major in Natural Resources & Environmental Sciences, Ecosystem Stewardship & Restoration Ecology Concentration

Ecosystem Stewardship and Restoration Ecology emphasizes the ecology, structure, and function of ecosystems, with a particular focus on plant communities and their interactions with the living and non-living parts of ecosystems. It is designed for students interested in the fundamental properties and practices underlying the restoration and management of soil, watershed, wetland, forest, and grassland ecosystems. The concentration includes coursework in the areas of restoration, landscape, and plant ecology, as well as courses focused on specific ecosystems (e.g. streams, wetlands, agroecosystems), invasive species, community ecology, and ecosystem science.

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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 & CMN 101	Writing and Research and Public Speaking (or equivalent) (see College Composition I requirement)	
CMN 111 & CMN 112	Oral & Written Comm I 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		
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 104	Animal Biology	
or IB 150 & IB 151	Organismal & Evolutionary Biol and Organismal & Evol Biol Lab	
Select one of the following:		3-5
GGIS 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	Introduction to Applied Microeconomics	3-4
or ECON 102	Microeconomic Principles	
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	Applied Ecology	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	
NRES 396	UG Honors 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 419	Env and Plant Ecosystems	3
NRES 420	Restoration Ecology	4
NRES 465	Landscape Ecology	3

Concentration Elective Requirements

Two Ecology Courses		6-7
NRES 302	Dendrology	
NRES 362	Ecology of Invasive Species	
NRES 415	Native Plant ID and Floristics	
CPSC 431	Plants and Global Change	
IB 452	Ecosystem Ecology	
IB 453	Community Ecology	
IB 439	Biogeography	
One Ecosystem or Management Course		3-4
NRES 401	Watershed Hydrology	
NRES 402		
NRES 418	Wetland Ecology & Management	
NRES 427	Modeling Natural Resources	
NRES 429	Aquatic Ecosystem Conservation	
NRES 485	Stream Ecosystem Management	
CPSC 437	Principles of Agroecology	
CEE 432	Stream Ecology	
IB 361	Ecology and Human Health	
IB 451	Conservation Biology	
UP 405	Watershed Ecology and Planning	
UP 406	Urban Ecology	
Total Concentration-Required Hours:		19-21

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Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a third level of a language other than English. For more information, see the corresponding section on the Degree and General Education Requirements page.

First Year

First Semester	Hours	Second Semester	Hours
NRES 102		3 CHEM 102	3
ACES 101		2 CHEM 103	1
RHET 105 or CMN 101		4 CMN 101 or RHET 105	3
IB 104 or 150 and 151		4 MATH 234	4
Language Other than English (3rd level)		4 IB 103	4
		17	15

Second Year

First Semester	Hours	Second Semester	Hours
NRES 219		3 NRES 287	3
CHEM 104		3 NRES 201	4
CHEM 105		1 Statistics course from degree list	3
ACE 100 or ECON 102		4 General Education course	3
Natural Science course from degree list		3 Free Elective course	3
General Education course		3	
		17	16

Third Year

First Semester	Hours	Second Semester	Hours
NRES 454		4 NRES 325	3
NRES 348		3 NRES 420	4
Ecosystem or Management course		3 Ecology course	3
Field Experience course		2 General Education course	3
Free Elective course		3 Free Elective course	3
		15	16

Fourth Year

First Semester	Hours	Second Semester	Hours
NRES 285		2 NRES 456	3
NRES 419		3 NRES 421	3
NRES 465		3 Ecology course	3
General Education course		4 Free Elective course	3
Free Elective course		3 Free Elective course	3
		15	15

Total Hours 126

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Natural Resources & Environmental Sciences

Natural Resources & Environmental Sciences website (<https://nres.illinois.edu>)
 W-503 Turner Hall
 1102 S. Goodwin Ave.
 Urbana, IL 61801
 217-333-2770
 NRES email (nres@illinois.edu)

College of Agricultural, Consumer & Environmental Sciences

ACES website (<https://aces.illinois.edu/>)

ACES Office of Academic Programs

128 Mumford Hall
 1301 West Gregory Drive

Urbana, IL 61801

Advising

Phone: 217-333-5824

NRES Advising email (nres-ssc@illinois.edu)

Advising website (<https://nres.illinois.edu/academics/undergraduate-degree/academic-resources/>)