

CROP SCIENCES: AGROECOLOGY, BS

for the degree of Bachelor of Science Major in Crop Sciences, Agroecology Concentration

department website: <https://cropsciences.illinois.edu/>
department faculty: <https://cropsciences.illinois.edu/people/faculty/>
 (<https://cropsciences.illinois.edu/people/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/>

The Agroecology Concentration addresses ecologically based management of cropping systems, stewardship of the environment, and sustainable food production systems. The intersection between crop plants and their environment is emphasized in this concentration. Graduates of the Agroecology concentration are prepared for careers in integrated plant health management, government regulatory and environmental agencies or for entrance into graduate or professional school.

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Prescribed Courses including Campus General Education

Code	Title	Hours
Composition I and Speech		
RHET 105	Writing and Research	4
	or equivalent - see College Composition I requirement (3 or 4)	
CMN 101	Public Speaking	3
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		
CPSC 241	Intro to Applied Statistics	3
Natural Sciences and Technology		
	See Specific Concentration Requirements	
Humanities and the Arts		
	Select from campus approved list	6
Social and Behavioral Sciences		

ACE 100	Introduction to Applied Microeconomics ¹	3-4
or ECON 102	Microeconomic Principles	
	Select from campus approved list.	3-4
ACES required		
ACES 101	Contemporary Issues in ACES	2
Required Concentration		58-79
Concentration prescribed courses. See specific concentration requirements.		
Total Hours		126

¹ ACE 100 or ECON 102 are not required for the Biological Sciences Concentration.

Agroecology Concentration Requirements

Code	Title	Hours
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
CHEM 232	Elementary Organic Chemistry I	3-4
or CPSC 382	Organic Chem of Biol Processes	
IB 103	Introduction to Plant Biology	4
IB 150	Organismal & Evolutionary Biol	4
IB 203	Ecology	4
MCB 150	Molec & Cellular Basis of Life	4
	Select one of the following:	4-5
MCB 100 & MCB 101	Introductory Microbiology and Intro Microbiology Laboratory	
IB 104	Animal Biology	
Agroecology Concentration Required		
CPSC 112	Introduction to Crop Sciences	4
CPSC 226		3
CPSC 270	Applied Entomology	3
CPSC 336	Tomorrow's Environment	3
CPSC 431	Plants and Global Change	3
CPSC 437	Principles of Agroecology	3
CPSC 498	Crop Sci Professional Developmnt	1
NRES 201	Introductory Soils	4
NRES 474	Soil and Water Conservation	3
or NRES 488	Soil Fertility and Fertilizers	
PLPA 204		3
	Select one course from three of the following groups:	9-12
ACE 210	Environmental Economics	
or ACE 310	Natural Resource Economics	
CPSC 412	Principles of Crop Production	
or CPSC 414	Forage Crops & Pasture Ecology	
or CPSC 415	Bioenergy Crops	
or CPSC 418	Crop Growth and Management	
CPSC 426	Weed Mgt in Agronomic Crops	
CPSC 473	Mgmt of Field Crop Insects	
NRES 401	Watershed Hydrology	
or NRES 419	Env and Plant Ecosystems	
or NRES 439	Env and Sustainable Dev	

or NRES 488 Soil Fertility and Fertilizers	
PLPA 403	Advanced Plant Pathology
or PLPA 405 Plant Disease Diagnosis & Mgmt	
or PLPA 407	
Select one of the following:	3-4
ANSC 100	Intro to Animal Sciences
FSHN 101	The Science of Food and How it Relates to You
HORT 100	Introduction to Horticulture
NRES 102	Introduction to NRES
TSM 100	Technical Systems in Agr
Total ACES prescribed and elective courses must total 35 hours, of which 20 hours must be completed in residence.	35