

# CROP SCIENCES: AGROECOLOGY, BS

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

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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## Graduation Requirements

Minimum hours required for graduation: 126 hours.

ACES prescribed and elective courses: 35 hours, of which 20 hours must be completed in residence.

## University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300 and 400 level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (<https://studentcode.illinois.edu/article3/part8/3-801/>) (§ 3-801) and in the Academic Catalog (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

## General Education Requirements

Follows the campus General Education (Gen Ed) requirements (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>). Some Gen Ed requirements may be met by courses required and/or electives in the program.

Code	Title	Hours
	Composition I	4-6
	Advanced Composition	3
	Humanities & the Arts (6 hours)	6
	Natural Sciences & Technology (6 hours)	6
	fulfilled by CHEM 102, CHEM 104, and IB 103	
	Social & Behavioral Sciences (6 hours)	6
	fulfilled by ECON 102 or ACE 100 and any other course approved as Social & Behavioral Sciences	
	Cultural Studies: Non-Western Cultures (1 course)	3
	Cultural Studies: US Minority Cultures (1 course)	3
	Cultural Studies: Western/Comparative Cultures (1 course)	3
	Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)	6-8
	fulfilled by MATH 220, MATH 221, or MATH 234, and CPSC 241	

Language Requirement (Completion of the third semester or equivalent of a language other than English is required) 0-15

Code	Title	Hours
<b>Department Foundation</b>		
Communication Option:		3 or 6
CMN 101	Public Speaking	
ALEC 115	Let's Talk about Food, Agriculture, and the Environment	
CMN 111 & CMN 112	Oral & Written Comm I and Oral & Written Comm II	
ACES 101		2
ECON 102 or ACE 100	Microeconomic Principles Introduction to Applied Microeconomics	3 or 4
Calculus Option - Select one of the following:		4-5
MATH 220	Calculus	
MATH 221	Calculus I	
MATH 234	Calculus for Business I	
CPSC 241	Intro to Applied Statistics	3
CHEM 102 & CHEM 103	General Chemistry I and General Chemistry Lab I	4
<b>Major Core</b>		
CPSC 102	Foundational Skills in Crop Sciences	2
CPSC 112	Introduction to Crop Sciences	4
CPSC 212	Introduction to Plant Protection	4
Internship or Research Option - Choose 3 hours from the following:		3
CPSC 393	Crop Sciences Internship	
CPSC 395	Undergrad Research or Thesis	
HORT 393	Horticulture Internship	
HORT 395	Undergrad Research or Thesis	
CPSC 498	Crop Sci Professional Developmt	1

Code	Title	Hours
<b>Agroecology Core</b>		
CHEM 104 & CHEM 105	General Chemistry II and General Chemistry Lab II	4
CPSC 382	Organic Chem of Biol Processes	4
CPSC 431	Plants and Global Change	3
CPSC 437	Principles of Agroecology	3
IB 103	Introduction to Plant Biology	4
NRES 201	Introductory Soils	4

**Concentration Electives**  
Choose from any 300- or 400-level CPSC, HORT, PLPA courses, excluding CPSC 393, HORT 393, CPSC 395 & HORT 395 12

Code	Title	Hours
<b>Total Hours</b>		<b>126</b>

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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 (<http://catalog.illinois.edu/general-education/degree-general-education-requirements/>).

### First Year

First Semester	Hours	Second Semester	Hours
CPSC 102	4	CPSC 212	4
CPSC 112	3	CHEM 104	3
CHEM 102	1	CHEM 105	3
CHEM 103	4	1 Calculus Option	1
Composition I or Communication Option	4	3 Communication Option or Composition I	3
ACES 101	16		13

### Second Year

First Semester	Hours	Second Semester	Hours
ECON 102 or ACE 100	3	CPSC 241	3
NRES 201	4	IB 103	4
Advanced CPSC, PLPA, or HORT Elective course	3	Advanced CPSC, PLPA, or HORT Elective course	3
Language Other than English (3rd level)	4	Free Elective course	4
Free Elective course	3	2 Free Elective course	2
	17		16

### Third Year

First Semester	Hours	Second Semester	Hours
CPSC 382	3	4 Free Elective course	4
Internship or Research Option	3	3 Free Elective course	3
Advanced CPSC, PLPA, or HORT Elective course	3	Advanced CPSC, PLPA, or HORT Elective course	3
General Education course	3	3 General Education course	3
General Education course	3	3 General Education course	3
	15		16

### Fourth Year

First Semester	Hours	Second Semester	Hours
CPSC 498	3	1 CPSC 431	1
CPSC 437	3	3 General Education course	3
General Education course	3	3 Free Elective course	3
General Education course	3	3 Free Elective course	3
Free Elective course	3	3 Free Elective course	3
Free Elective course	3	3	3
	16		15

### Total Hours 124

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Students graduating with the B.S. in Crop Sciences should be able to:

1. Demonstrate knowledge in the key subject matter areas of applied plant biology; crop growth and development; crop management and protection; and soil science.
2. Demonstrate an ability to identify a problem and develop solutions using quantitative reasoning skills for analysis of biological data.
3. Demonstrate oral and written communication skills necessary to listen and make effective arguments, to share applied scientific concepts with the public, and to make use of a broad variety of media.
4. Demonstrate an ability to lead and function in multidisciplinary teams.
5. Demonstrate the ability to perform self-guided discovery in agricultural sciences, practicing skills of engagement to enhance intellectual curiosity.

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## Crop Sciences

Crop Sciences website (<https://cropsciences.illinois.edu/>)  
 AW-101 Turner Hall  
 MC-046  
 1102 S. Goodwin Ave.  
 Urbana, IL 61801  
 (217) 333-3420  
[cropsciences@illinois.edu](mailto:cropsciences@illinois.edu)

## College of Agricultural, Consumer & Environmental Sciences

College of Agricultural, Consumer & Environmental Sciences website (<https://aces.illinois.edu/>)

## **ACES Office of Academic Programs**

128 Mumford Hall  
1301 West Gregory Drive  
Urbana, IL 61801  
217-333-3380  
aces-academics@illinois.edu

## **Advising**

Advising Website (<https://cropsciences.illinois.edu/about/contact-us/#paragraph-604>)  
(217) 333-3570  
Undergraduate Advising Email: [ugrad@cropsciences.illinois.edu](mailto:ugrad@cropsciences.illinois.edu)  
Graduate Advising Email: [grad@cropsciences.illinois.edu](mailto:grad@cropsciences.illinois.edu)

## **Admissions**

ACES Undergraduate Admissions (<https://aces.illinois.edu/admissions/>)  
University of Illinois Urbana-Champaign Undergrad Admissions (<https://www.admissions.illinois.edu/>)  
University of Illinois Urbana-Champaign Graduate Admissions (<https://grad.illinois.edu/>)  
(217) 333-3380  
[visitACES@illinois.edu](mailto:visitACES@illinois.edu)