

COMPUTER SCIENCE + CROP SCIENCES, BS & CROP SCIENCES, MS

for the degree of Bachelor of Science in Computer Science + Crop Sciences
and the Master of Crop Sciences

crop sciences department information: <https://cropsciences.illinois.edu/>
computer science degree information: <https://cs.illinois.edu/academics/undergraduate/degree-program-options/cs-x-degree-programs#requirements> (<https://cs.illinois.edu/academics/undergraduate/degree-program-options/cs-x-degree-programs/#requirements>)
overview of college admissions & requirements: Agricultural, Consumer & Environmental Sciences (<http://catalog.illinois.edu/schools/aces/academic-units/#text>)
college websites: <https://aces.illinois.edu/> and <https://engineering.illinois.edu>
computer science contact: undergrad@cs.illinois.edu (academic@cs.illinois.edu)
crop sciences contact: ugrad@cropsciences.illinois.edu

The five-year joint B.S.-M.S. program in Crop Sciences combines a B.S. in Crop Sciences with a non-thesis M.S. in Crop Sciences or a B.S. in Computer Science and Crop Sciences with a nonthesis M.S. in Crop Sciences. Current University of Illinois at Urbana-Champaign undergraduate students enrolled in the Department of Crop Sciences who have completed between 60 and 96 credit hours, maintain superior academic performance are eligible to apply for this program. Students admitted to the program will receive both degrees once all requirements for the B.S.-M.S. program are completed.

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For the Computer Science + Crop Sciences, BS

Prescribed Courses including Campus General Education

Code	Title	Hours
Composition I and Speech		6-7
RHET 105 & CMN 101	Writing and Research and Public Speaking	
OR		
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.		0-15
Quantitative Reasoning I		
See Mathematical Foundations for specific requirement.		3
Quantitative Reasoning II		
See Mathematical Foundations for specific requirement.		3
Natural Sciences and Technology		
See Crop Sciences Core for specific requirement.		6
Humanities and the Arts		
Select from campus-approved list.		6
Social and Behavioral Sciences		
Select from campus-approved list.		6
ACES Required		
ACES 101	Contemporary Issues in ACES	2
Computer Science Core		22
CS 100	Freshman Orientation (recommended)	1
CS 125	Introduction to Computer Science	4
CS 126	Software Design Studio	3
CS 173	Discrete Structures	3
CS 225	Data Structures	4
CS 374	Introduction to Algorithms & Models of Computation	4
CS 421	Programming Languages & Compilers	3
Computer Science Technical Track		8-11
Choose from the following options:		
CS 233 & CS 241	Computer Architecture and System Programming	
OR		
CS 240 & Two CS 4XX	Introduction to Computer Systems Any two (2) 400-level CS courses except CS 491	
Mathematical Foundations (fulfills Quantitative Reasoning I and II)		12-13
CS 361	Probability & Statistics for Computer Science	3
MATH 220 or MATH 221	Calculus Calculus I	4-5
MATH 225	Introductory Matrix Theory	2
MATH 231	Calculus II	3
Crop Sciences Core		16
CPSC 102	Foundational Skills in Crop Sciences	2
CPSC 112	Introduction to Crop Sciences	4
CPSC 393 or CPSC 395	Crop Sciences Internship Undergrad Research or Thesis	3
CPSC 498	Crop Sci Professional Developmnt	1
Select two of the following:		6
CPSC 226		
CPSC 270	Applied Entomology	
PLPA 204		
Foundational Data Analytics		6-8
CPSC 440	Applied Statistical Methods I	4
And select one of the following:		
CPSC 441		

CPSC 444	Introduction to Spatial Analytics	
Crop Sciences Electives		6
CPSC/HORT/ PLPA 4XX	At least one (1) 400-level CPSC/HORT/ PLPA course	
CPSC/HORT/ PLPA XXX	Any CPSC/HORT/PLPA course except CPSC 241	
Total Hours		126

For the Crop Sciences, MS Non-Thesis Option

Code	Title	Hours
CPSC 594	Professional Orientation CPSC	1
CPSC 598	Seminar (when presenting)	1
Electives including at least 4 hours of graded coursework at the 500 level other than CPSC 599		30
Total Hours ¹		32

Other Requirements

Requirement
Other requirements and conditions may overlap
Minimum Hours Required Within the Unit: 1
Minimum 500-level Hours Required overall: 12
Minimum GPA: 3.0

¹ Twelve (12) hours of graduate level concentration electives in the BS requirements will overlap with 12 hours of electives required for the MS requirements.