COMPUTER SCIENCE & CROP SCIENCES, BS

for the degree of Bachelor of Science Major in Computer Science & Crop Sciences

crop sciences department website: https://cropsciences.illinois.edu/
computer science degree information: 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 email: undergrad@cs.illinois.edu (academic@cs.illinois.edu)
crop sciences email: cropsiences@illinois.edu (academic@cs.illinois.edu)

Please see the Computer Science advisor in 1210 Siebel Center, as well as the Crop Sciences Teaching Coordinator in Turner Hall AE-120.

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A Major Plan of Study Form must be completed and submitted to the Department of Computer Science Office of Undergraduate Affairs and to the Undergraduate Teaching Office in Crop Sciences by the beginning of the fifth semester (60-75 hours).

To graduate from the Computer Science and Crop Sciences curriculum, a student must complete the following courses, all of which must be taken for a traditional letter grade.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Composition I and Speech</td>
<td>6-7</td>
<td></td>
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<tr>
<td>RHET 105</td>
<td>Writing and Research &amp; CMN 101 and Public Speaking</td>
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</tbody>
</table>

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

CS 100 Freshman Orientation 1
CS 125 Intro 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

9-11

To include either CS 240, or CS 233 and CS 241, plus up to two CS 400-level classes per approved list and constraints maintained on Computer Science department website.

Mathematical Foundations (fulfills Quantitative Reasoning I and II)

CS 361 Probability & Statistics for Computer Science 3
MATH 220 Calculus or MATH 221 Calculus I 4-5
MATH 225 Introductory Matrix Theory 2
MATH 231 Calculus II 3

Crop Sciences Core

34-36

CPSC 112 Introduction to Crop Sciences 4
Select two of the following: 6
CPSC 226 Introduction to Weed Science
CPSC 270 Applied Entomology
PLPA 204 Introductory Plant Pathology
CPSC 261 Biotechnology in Agriculture 3
CPSC 265 Genetic Engineering Lab 3
CPSC 266 Data in Biology and Agriculture 4
CPSC 352 Plant Genetics 4
CPSC 440 Applied Statistical Methods I 4
Select two of the following: 5-7
CPSC 418 Crop Growth and Management
CPSC 452 Advanced Plant Genetics
CPSC 453 Principles of Plant Breeding
CPSC 466 Genomics for Plant Improvement
CPSC 498 Crop Sci Professional Develpmnt 1

Total Hours 126

Information listed in this catalog is current as of 10/2019