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
(cademic@cs.illinois.edu)
crop sciences email: cropsciences (cropsciences@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.

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>
</tr>
</thead>
<tbody>
<tr>
<td>RHET 105 &amp; CMN 101</td>
<td>Writing and Research &amp; Public Speaking</td>
<td>6-7</td>
</tr>
<tr>
<td>CPSC 102</td>
<td>Foundational Skills in Crop Sciences</td>
<td>1</td>
</tr>
<tr>
<td>CPSC 112</td>
<td>Introduction to Crop Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CPSC 393</td>
<td>Crop Sciences Internship</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 498</td>
<td>Crop Sci Professional Develpmnt</td>
<td>1</td>
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Mathematical Foundations (fulfills Quantitative Reasoning I and II)

- MATH 220 Calculus
- MATH 225 Introductory Matrix Theory
- MATH 231 Calculus II

Crop Sciences Core

- CPSC 102 Foundational Skills in Crop Sciences
- CPSC 112 Introduction to Crop Sciences
- CPSC 393 Crop Sciences Internship
- or CPSC 394 Undergrad Research or Thesis
- CPSC 498 Crop Sci Professional Development

Foundational Data Analytics

- CPSC 440 Applied Statistical Methods I

Crop Sciences Electives

- At least one (1) 400-level CPSC/HORT/PLPA course
- CPSC/PLPA 4XX

See Crop Sciences Core for specific requirement.

Humanities and the Arts
- Select from campus-approved list.

Social and Behavioral Sciences
- Select from campus-approved list.

ACES Required

- ACES 101 Contemporary Issues in ACES

Computer Science Core

- CS 100 Freshman Orientation (recommended)
- CS 125 Intro to Computer Science
- CS 126 Software Design Studio
- CS 173 Discrete Structures
- CS 225 Data Structures
- CS 374 Introduction to Algorithms & Models of Computation
- CS 421 Programming Languages & Compilers

Computer Science Technical Track

- Choose from the following options:
  - CS 233 Computer Architecture
  - CS 241 and System Programming

OR

- CS 240 Introduction to Computer Systems
- & Two CS 4XX Any two (2) 400-level CS courses except CS 491

Information listed in this catalog is current as of 03/2020
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<tr>
<th>CPSC/ HORT/ PLPA XXX</th>
<th>Any CPSC/HORT/PLPA course except CPSC 241</th>
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**Total Hours** 126