### 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/](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](http://catalog.illinois.edu/schools/aces/academic-units/#text)
- **College websites:** [https://aces.illinois.edu/](https://aces.illinois.edu/) and [https://engineering.illinois.edu](https://engineering.illinois.edu)
- **Computer science email:** [undergrad@cs.illinois.edu](mailto:undergrad@cs.illinois.edu) ([academic@cs.illinois.edu](mailto:academic@cs.illinois.edu))
- **Crop sciences email:** [cropsciences@illinois.edu](mailto:cropsciences@illinois.edu) ([academic@cs.illinois.edu](mailto: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>
</tr>
</thead>
<tbody>
<tr>
<td>RHET 105</td>
<td>Writing and Research &amp; CMN 101 Writing and Public Speaking</td>
<td>6-7</td>
</tr>
<tr>
<td><strong>Advanced Composition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select from campus-approved list.</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td><strong>Cultural Studies</strong></td>
<td></td>
<td></td>
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<tr>
<td>Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists.</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Foreign Language</strong></td>
<td></td>
<td></td>
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<tr>
<td>Coursework at or above the third level is required for graduation.</td>
<td>0-15</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Reasoning I</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>See Mathematical Foundations for specific requirement.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Reasoning II</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>See Mathematical Foundations for specific requirement.</td>
<td>3</td>
<td></td>
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</tbody>
</table>

#### 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 (recommended) 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**
  - 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
- **Mathematical Foundations (fulfills Quantitative Reasoning I and II)**
  - CS 361 Probability & Statistics for Computer Science 3
  - MATH 220 Calculus 4-5 or MATH 221 Calculus I
  - MATH 225 Introductory Matrix Theory 2
  - MATH 231 Calculus II 3
- **Crop Sciences Core**
  - CPSC 102 Foundational Skills in Crop Sciences 1
  - CPSC 112 Introduction to Crop Sciences 4
  - CPSC 393 Crop Sciences Internship 3
  - or CPSC 394 Undergrad Research or Thesis
  - CPSC 498 Crop Sci Professional Develpmt 1
- Select two of the following: 6
  - CPSC 226 Introduction to Weed Science
  - CPSC 270 Applied Entomology
  - PLPA 204 Introductory Plant Pathology
- **Foundational Data Analytics**
  - CPSC 440 Applied Statistical Methods I 4
- And select one of the following:
  - CPSC 441 Introduction to R Programming
  - CPSC 444 Introduction to Spatial Analytics
- **Crop Sciences Electives**
  - CPSC/HORT/PLPA 4XX At least one (1) 400-level CPSC/HORT/PLPA course
- Information listed in this catalog is current as of 03/2020
<table>
<thead>
<tr>
<th>CPSC/ HORT/ PLPA XXX</th>
<th>Any CPSC/HORT/PLPA course except CPSC 241</th>
</tr>
</thead>
</table>

**Total Hours** 126