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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</thead>
<tbody>
<tr>
<td>RHET 105 &amp; CMN 101</td>
<td>Writing and Research and Public Speaking</td>
<td>6-7</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 4-5

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 Developmt 1

**Total Hours**

126

Information listed in this catalog is current as of 01/2020