COMPUTER SCIENCE & ECONOMICS, BSLAS

for the degree of Bachelor of Science in Liberal Arts and Sciences Major in Computer Science and Economics

computer science degree information: https://cs.illinois.edu/academics/undergraduate/degree-program-options/cs-x-degree-programs#requirements
astronomy department website: https://anthro.illinois.edu/academics/undergraduate-programs/computer-science-and-anthropology
department page:
overview of college admissions & requirements: Liberal Arts & Sciences (http://catalog.illinois.edu/las)
college websites: https://las.illinois.edu/ and https://engineering.illinois.edu
astronomy email: astronomy@illinois.edu
computer science email: undergrad@cs.illinois.edu (academic@cs.illinois.edu)

Please visit the computer science advisor as well as the economics advising office.

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A Major Plan of Study Form must be completed and submitted to the LAS Student Affairs Office by the beginning of the fifth semester (60-75 hours).

General education: Students must complete the Campus General Education (https://courses.illinois.edu) requirements including the campus general education language requirement.
Minimum required major and supporting course work: Normally equates to 66 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus.
Minimum hours required for graduation: 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Required Computer Science Courses:</td>
<td></td>
</tr>
<tr>
<td>CS 100</td>
<td>Freshman Orientation (recommended)</td>
<td>0-1</td>
</tr>
<tr>
<td>CS 125</td>
<td>Intro to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CS 126</td>
<td>Software Design Studio</td>
<td>3</td>
</tr>
<tr>
<td>CS 173</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 225</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CS 233</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>CS 241</td>
<td>System Programming</td>
<td>4</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
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<tr>
<td>ECON 202</td>
<td>Economic Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Statistical Analysis</td>
<td></td>
</tr>
<tr>
<td>STAT 212</td>
<td>Biostatistics</td>
<td></td>
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<tr>
<td>CS 361</td>
<td>Probability &amp; Statistics for Computer Science</td>
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<tr>
<td>CS 374</td>
<td>Introduction to Algorithms &amp; Models of Computation</td>
<td>4</td>
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<tr>
<td>CS 421</td>
<td>Programming Languages &amp; Compilers</td>
<td>3</td>
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Mathematics (may also fulfill the General Education Quantitative Reasoning I and II requirements):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>4-5</td>
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<tr>
<td>or MATH 225</td>
<td>Introductory Matrix Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
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</table>

Required Economics Coursework – minimum 24 hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECON 102</td>
<td>Microeconomic Principles</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Macroeconomic Principles</td>
<td>3</td>
</tr>
<tr>
<td>ECON 203</td>
<td>Economic Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Inter Microeconomic Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Four 400-level courses in Economics selected from an approval list of computation-focused courses

Total Hours 65-67

1 CS 100 (http://catalog.illinois.edu/search/?P=CS%20100) is an orientation course aimed at first-year students, so students who declare the major after the freshman year are not required to complete it.