COMPUTER SCIENCE & LINGUISTICS, BSLAS

for the degree of Bachelor of Science in Liberal Arts & Sciences Major in Computer Science & Linguistics

Computer science degree information: https://cs.illinois.edu/academics/undergraduate/degree-program-options/cs-x-degree-programs#requirements
Linguistics advising page: http://www.linguistics.illinois.edu/students/undergrad/advising.html
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
Computer science email: undergrad@cs.illinois.edu (academic@cs.illinois.edu)

Please see the computer science advisor as well as the linguistics advisor.

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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 Anthropology courses 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>
</tr>
</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>Freshman Orientation (recommended) 1</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>
<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>
</tr>
<tr>
<td>CS 361</td>
<td>Probability &amp; Statistics for Computer Science</td>
<td></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)

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 221</td>
<td>Calculus I</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 222</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 225</td>
<td>Introductory Matrix Theory</td>
<td>2</td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
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Required Linguistics Coursework - Minimum of 24 hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>LING 100</td>
<td>Intro to Language Science</td>
<td>3</td>
</tr>
<tr>
<td>LING 301</td>
<td>Elements of Syntax</td>
<td>3</td>
</tr>
<tr>
<td>LING 307</td>
<td>Elmnts Semantics &amp; Pragmatics</td>
<td>3</td>
</tr>
<tr>
<td>LING 406</td>
<td>Intro to Computational Ling</td>
<td>3</td>
</tr>
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Advanced Coursework - select at least three of the following 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRST 415</td>
<td>Machine Translation: History and Applications</td>
<td></td>
</tr>
<tr>
<td>LING 490</td>
<td>Special Topics in Linguistics (Check with advisor for appropriate topics. May be repeated to meet this requirement if topics vary)</td>
<td></td>
</tr>
<tr>
<td>CS 446</td>
<td>Machine Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Linguistics Breadth Course

Any 200-level or higher Linguistics Course (with the exception of ESL and language courses)

1 CS 100 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.

Information listed in this catalog is current as of 04/2019