## COMPUTER SCIENCE + LINGUISTICS, BSLAS

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

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

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>Computer Science Orientation (recommended; 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.)</td>
<td>1</td>
</tr>
<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS 128</td>
<td>Introduction to Computer Science II</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 222</td>
<td>Software Design Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose one of the following combinations: 8-11

- CS 233
- CS 341

& Computer Architecture and System Programming

**OR**

- CS 340

& Introduction to Computer Systems

& two CS courses at the 400 level above CS 403, excluding CS 421 and CS 491. These two courses must be distinct from all other courses used to fulfill program requirements or options.

Choose one of the following:

- STAT 200
- Biostatistics
- CH 361
- Probability & Statistics for Computer Science
- CS 374
- Introduction to Algorithms & Models of Computation
- CS 421
- Programming Languages & Compilers

**Mathematics (may also fulfill the General Education Quantitative Reasoning I and II requirements)**

- MATH 221
- Calculus I
- or MATH 220
- Calculus
- MATH 225
- Introductory Matrix Theory
- or MATH 257
- Linear Algebra with Computational Applications

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Linguistics Coursework - Minimum of 24 hours**

- LING 100
- Intro to Language Science
- LING 301
- Elements of Syntax
- LING 307
- Elmts Semantics & Pragmatics
- LING 406
- Introduction to Computational Linguistics

**Advanced Coursework - select at least three of the following**

- TRST 415
- Machine Translation: History and Applications
- LING 490
- Special Topics in Linguistics (Check with advisor for appropriate topics. May be repeated to meet this requirement if topics vary)
- CS 446
- Machine Learning

**Linguistics Breadth Course**

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