COMPUTER SCIENCE + ECONOMICS, BSLAS

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

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

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>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>
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<tr>
<td>CS 124</td>
<td>Introduction to Computer Science I</td>
<td>3</td>
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<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>
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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: 3

- ECON 202: Economic Statistics I
- STAT 200: Statistical Analysis
- STAT 212: Biostatistics
- CS 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 220: Calculus 4-5
  - or MATH 221: Calculus I
- MATH 225: Introductory Matrix Theory 2 or 3
  - or MATH 257: Linear Algebra with Computational Applications
- MATH 231: Calculus II 3

Required Economics Coursework -- minimum 24 hours

- ECON 102: Microeconomic Principles 3
- ECON 103: Macroeconomic Principles 3
- ECON 203: Economic Statistics II 3
- ECON 302: Inter Microeconomic Theory 3

Four 400-level courses in Economics selected from an approval list of computation-focused courses 12

Total Hours 66-71

Information listed in this catalog is current as of 06/2022