Bachelor of Science in Computer Science + Economics

The College of Arts & Sciences and McKelvey School of Engineering developed a new major that allows students interested in both economics and computer science to combine these two complementary disciplines efficiently, without having to pursue them as two separate majors.

Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 131</td>
<td>Calculus I (AP credit may satisfy this requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Math 132</td>
<td>Calculus II (AP credit may satisfy this requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Math 2200</td>
<td>Elementary Probability and Statistics (preferably L24 MATH 3200)</td>
<td>3</td>
</tr>
<tr>
<td>or Math 3200</td>
<td>Elementary to Intermediate Statistics and Data Analysis</td>
<td></td>
</tr>
<tr>
<td>or ESE 326</td>
<td>Probability and Statistics for Engineering</td>
<td></td>
</tr>
<tr>
<td>Math 233</td>
<td>Calculus III</td>
<td>1-3</td>
</tr>
<tr>
<td>or Econ 493</td>
<td>Mathematical Economics</td>
<td></td>
</tr>
<tr>
<td>CSE 131</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSE 247</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSE 347</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Econ 1011</td>
<td>Introduction to Microeconomics (AP credit may satisfy this requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Econ 1021</td>
<td>Introduction to Macroeconomics (AP credit may satisfy this requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Econ 4011</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>Econ 413</td>
<td>Introduction to Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>or Econ 413W</td>
<td>Introduction to Econometrics with Writing</td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>31-33</td>
</tr>
</tbody>
</table>

Electives

Six upper-level approved courses from Economics and Computer Science & Engineering (CSE) are required: three from economics and three from CSE. Students who satisfied the Econ 1011 and/or Econ 1021 requirements with AP credits can take instead electives in either department and add at most one course from outside of both departments.