CS+Math (an Applied Science degree)

The School of Engineering & Applied Science (SEAS) and the College of Arts & Sciences (A&S) developed a new major that efficiently captures the intersection of the complementary studies of computer science and math.

SEAS students who declare this major must fulfill the distribution and all other requirements for the "Applied Science" degree (http://bulletin.wustl.edu/undergrad/engineering/requirements) in the School of Engineering & Applied Science. A&S students who declare this major must fulfill the distribution and all other requirements for an AB degree (http://bulletin.wustl.edu/undergrad/artsci/requirements) in addition to the specific requirements listed below.

Core 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 233</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>CSE 131</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>Math 310</td>
<td>Foundations for Higher Mathematics</td>
<td>3-4</td>
</tr>
<tr>
<td>or Math 310W</td>
<td>Foundations for Higher Mathematics with Writing</td>
<td></td>
</tr>
<tr>
<td>or CSE 240</td>
<td>Logic and Discrete Mathematics</td>
<td></td>
</tr>
<tr>
<td>CSE 247</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Math 309</td>
<td>Matrix Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Math 3200</td>
<td>Elementary to Intermediate Statistics and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or ESE 326</td>
<td>Probability and Statistics for Engineering</td>
<td></td>
</tr>
<tr>
<td>CSE 347</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Eight upper-level approved courses from Math or CSE

- No fewer than three courses from each department
- Up to two preapproved courses from outside both departments