The Department of Mathematics offers a minor in Statistics for students whose majors are not Mathematics. The goal of the minor in Statistics is to provide the student with a substantial number of courses that are statistical in nature and involve a substantial amount of mathematics.

The departmental advisor for this program is Professor Paul Smith (pjs@umd.edu (pjs@math.umd.edu)).

Requirements

The requirements entail 16 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH241</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>or MATH340</td>
<td>Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following pairs of courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT400</td>
<td>Applied Probability and Statistics I</td>
<td>6</td>
</tr>
<tr>
<td>&amp; STAT401</td>
<td>and Applied Probability and Statistics II</td>
<td></td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT410</td>
<td>Introduction to Probability Theory</td>
<td>6</td>
</tr>
<tr>
<td>&amp; STAT420</td>
<td>and Theory and Methods of Statistics</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT410</td>
<td>Introduction to Probability Theory</td>
<td>6</td>
</tr>
<tr>
<td>&amp; STAT401</td>
<td>and Applied Probability and Statistics II</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT430</td>
<td>Introduction to Statistical Computing with SAS</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A third course from the pairs above, if not already taken</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT440</td>
<td>Sampling Theory</td>
<td>3</td>
</tr>
<tr>
<td>or STAT470</td>
<td>Actuarial Mathematics</td>
<td></td>
</tr>
<tr>
<td>or ECON422</td>
<td>Econometrics I</td>
<td></td>
</tr>
<tr>
<td>or other courses as deemed appropriate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other issues related to the minor in Statistics:

- The minor in Statistics is NOT open to Mathematics majors.
- The student will need to achieve at least a "C-" (1.7) in each minor course and an overall minor GPA of 2.0.
- A student may use a maximum of 2 courses to satisfy the requirements of both a major and the minor in Statistics.
- No more than 2 courses for the minor in Statistics may be taken at an institution other than the University of Maryland, College Park. In addition, no more than one upper-level course may be taken at an institution other than the University of Maryland, College Park.