# Statistics Minor

for the Undergraduate Minor in Statistics

The minor, administered by the Department of Statistics, is designed to provide students with an understanding of the concepts of statistical inference and a familiarity with the methods of applied statistical analysis. A minor in statistics will assist students with their major field of study to better prepare them for a career in their chosen field. It will also prepare students for graduate studies in statistics or in one of many areas where data analysis plays an important role. Interested students should contact the Statistics undergraduate advisor for admission into the minor. Students should have completed the calculus sequence through MATH 231 before entering the minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Three courses (9-12 hours), including at least one from the Advanced Statistical methods group, must be STAT courses.</td>
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### Statistics Concepts - Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ACE 261</td>
<td>Intro to Applied Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>CPSC 241</td>
<td>Economic Statistics I</td>
<td></td>
</tr>
<tr>
<td>ECON 202</td>
<td>Elements of Statistics</td>
<td></td>
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<tr>
<td>EPSY 280</td>
<td>Intro to Statistics</td>
<td></td>
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<tr>
<td>PSYC 235</td>
<td>Data Science Discovery</td>
<td></td>
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<tr>
<td>STAT 100</td>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>STAT 107</td>
<td>Data Science Discovery</td>
<td></td>
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<tr>
<td>SOC 280</td>
<td>Intro to Social Statistics</td>
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### Data Analysis - Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STAT 200</td>
<td>Statistical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STAT 207</td>
<td>Data Science Exploration</td>
<td></td>
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<tr>
<td>STAT 212</td>
<td>Biostatistics</td>
<td></td>
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<tr>
<td>ECON 203</td>
<td>Economic Statistics II</td>
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### Linear Algebra - Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 225</td>
<td>Introductory Matrix Theory</td>
<td>2-3</td>
</tr>
<tr>
<td>MATH 257</td>
<td>Linear Algebra with Computational Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 415</td>
<td>Applied Linear Algebra</td>
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</tbody>
</table>

### Mathematical Statistics - Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>STAT 400</td>
<td>Statistics and Probability I</td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 408</td>
<td>Actuarial Statistics I</td>
<td></td>
</tr>
<tr>
<td>MATH 461</td>
<td>Probability Theory</td>
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</table>

### Advanced Statistical Methods

Select two 300- or 400-level STAT courses. STAT courses numbered 409 and above meet this requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours**

17-20