# STATISTICS - MINOR

## Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lower Division Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 212</td>
<td>Principles of Statistics II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Directed Upper Division Electives</strong></td>
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</tr>
<tr>
<td>Select three of the following:</td>
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<tr>
<td>STAT 335/</td>
<td>Principles of Data Science</td>
<td></td>
</tr>
<tr>
<td>CSCE 320</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 404</td>
<td>Statistical Computing</td>
<td></td>
</tr>
<tr>
<td>STAT 406</td>
<td>Design and Analysis of Experiments</td>
<td></td>
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<tr>
<td>STAT 407</td>
<td>Principles of Sample Surveys</td>
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</tr>
<tr>
<td>STAT 408</td>
<td>Introduction to Linear Models</td>
<td></td>
</tr>
<tr>
<td>STAT 414</td>
<td>Mathematical Statistics I</td>
<td></td>
</tr>
<tr>
<td>STAT 415</td>
<td>Mathematical Statistics II</td>
<td></td>
</tr>
<tr>
<td>STAT 421/</td>
<td>Machine Learning</td>
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<tr>
<td>CSCE 421</td>
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<tr>
<td>STAT 436</td>
<td>Multivariate Analysis and Statistical Learning</td>
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<tr>
<td>STAT 438</td>
<td>Bayesian Statistics</td>
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</tr>
<tr>
<td>STAT 445</td>
<td>Applied Biostatistics and Data Analysis</td>
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</tr>
<tr>
<td>STAT 446</td>
<td>Statistical Bioinformatics</td>
<td></td>
</tr>
<tr>
<td>STAT 459</td>
<td>Categorical Data Analysis</td>
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</tr>
<tr>
<td>STAT 485</td>
<td>Directed Studies</td>
<td></td>
</tr>
<tr>
<td>STAT 489</td>
<td>Special Topics in...</td>
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<tr>
<td><strong>Total Semester Credit Hours</strong></td>
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<td>15</td>
</tr>
</tbody>
</table>

1 STAT 485 or STAT 489 must be approved by the Statistics Department.

**Additional Requirements:**

Students must make a grade of C or better in all courses.

Substitutions for the minor must be approved by the Statistics Department.