### STATISTICS, B.S.

#### Requirements for Major in Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>STA 3381</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STA 3386</td>
<td>Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 4382</td>
<td>Intermediate Statistical Methods</td>
<td>3</td>
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<tr>
<td>STA 4385</td>
<td>Mathematical Statistics I</td>
<td>3</td>
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<tr>
<td>STA 4386</td>
<td>Mathematical Statistics II</td>
<td>3</td>
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<tr>
<td>STA 43C9</td>
<td>Capstone Statistics Course</td>
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Twenty-seven semester hours including the following:

**Required Courses**

- STA 3381: Probability and Statistics
- STA 3386: Regression Analysis
- STA 4382: Intermediate Statistical Methods
- STA 4385: Mathematical Statistics I
- STA 4386: Mathematical Statistics II
- STA 43C9: Capstone Statistics Course

- Nine additional semester hours of 2000-4000 level STA courses
- A grade of "C" or better in courses used for the major.

**Subtotal**

- 27 semester hours

**Required Courses in Other Fields**

- MTH 1321: Calculus I
- MTH 1322: Calculus II
- MTH 2311: Linear Algebra
- MTH 2321: Calculus III
- CSI 1401: Introduction to Programming I
- CSI 1430: Introduction to Computer Science I with Laboratory
- STA 2450: Introduction to Computing for the Mathematical and Statistical Sciences

**Total Hours**

- 51 semester hours

Eight semester hours of science courses (with no more than 4 hours from GEO) with appropriate labs selected from the following:

- BIO 1305 & BIO 1105: Modern Concepts of Bioscience and Modern Concepts of Bioscience Laboratory
- BIO 1306 & BIO 1106: Modern Concepts of Bioscience, continued and Modern Concepts of Bioscience Laboratory
- CHE 1301 & CHE 1101: Basic Principles of Modern Chemistry I and General Chemistry Laboratory I
- CHE 1302 & CHE 1102: Basic Principles of Modern Chemistry II and General Chemistry Laboratory II
- ENV 1301 & ENV 1101: Exploring Environmental Issues and An Introduction to Environmental Analysis (Lab)
- GEO 1306 & GEO 1106 or GEO 1307 & GEO 1106: The Earth Through Time, Laboratory
- GEO 1401: Earthquakes and Other Natural Disasters
- GEO 1402: World Oceans
- GEO 1403: Environmental Geology
- GEO 1405: The Dynamic Earth
- GEO 1408: Earth Science
- NSC 1306 & NSC 1106: Introduction to Neuroscience and Introduction to Neuroscience Laboratory
- PHY 1420: General Physics I
- PHY 1430: General Physics II