APPLIED STATISTICS MINOR

The Minor in Applied Statistics plays an important role in many disciplines such as business, biology, ecology, economics, agriculture, etc. It is increasingly necessary for students to have working knowledge in statistics and data analysis.

The minor is designed to provide students with opportunities for exposure and skill development in advanced statistical methods. These methods are useful for conducting research in applied subjects, and students who complete this minor will be appealing to employees and graduate schools seeking individuals with quantitative skills.

The minor is flexible so that students from most majors can find a path to the minor that serves their needs. This minor is only open to non-math majors.

Course Requirements for the Minor

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lower Division</strong></td>
<td></td>
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</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
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<tr>
<td>MATH 105</td>
<td>Introduction to Statistics</td>
<td></td>
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<tr>
<td>MATH 108</td>
<td>Statistics of Business and Economics</td>
<td></td>
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<tr>
<td><strong>Upper Division</strong></td>
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<tr>
<td>MATH 315</td>
<td>Applied Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 456</td>
<td>Applied Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 458</td>
<td>Sampling Methods</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>6</td>
<td></td>
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<tr>
<td>Select six units from the following:</td>
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<tr>
<td>ANTH 485</td>
<td>Formal Methods for Anthropology</td>
<td></td>
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<tr>
<td>ABUS 451W</td>
<td>Agricultural Policy (W)</td>
<td></td>
</tr>
<tr>
<td>BIOL 408</td>
<td>Principles of Evolution</td>
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<tr>
<td>BSIS 610</td>
<td>Business Analytics</td>
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<tr>
<td>CHEM 320</td>
<td>Quantitative Analysis</td>
<td></td>
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<tr>
<td>CHEM 331</td>
<td>Physical Chemistry I</td>
<td></td>
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<tr>
<td>ECON 380</td>
<td>Economic Statistics</td>
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<tr>
<td>ECON 481</td>
<td>Introductory Econometrics</td>
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<tr>
<td>ECON 483</td>
<td>Econometrics II</td>
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<tr>
<td>ERTH 440</td>
<td>Environmental Sensing</td>
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<tr>
<td>GEOG 315</td>
<td>Applied Statistical Methods in Geography</td>
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<tr>
<td>GEOG 405</td>
<td>Conservation, Restoration, and Stewardship</td>
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<td>GEOG 411</td>
<td>Geospatial Analysis and Modeling in GIS</td>
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<tr>
<td>GEOG 418</td>
<td>Remote Sensing of Environment</td>
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<tr>
<td>GEOG 444</td>
<td>Biogeography and Landscape Ecology</td>
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<tr>
<td>MATH 109</td>
<td>Survey of Calculus</td>
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<tr>
<td>MATH/CSCI 217</td>
<td>Discrete Mathematics</td>
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<tr>
<td>MATH 314</td>
<td>Probability and Statistics for Science and Technology</td>
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<tr>
<td>MATH 350</td>
<td>Introduction to Probability and Statistics</td>
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<td>MKTG 380</td>
<td>Marketing Research</td>
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<tr>
<td>PSYC 364</td>
<td>Statistical Methods in Psychology</td>
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</table>

**Total Units**: 18

1 At least six units of electives must be chosen from either the Department of Mathematics and Statistics or from another department. Electives must be courses with significant mathematical/statistical content as determined by faculty of the Department of Mathematics and Statistics. Prior approval is required to count Independent Study or Internships towards the Minor.