MATHEMATICS: STATISTICS (M.S.)

https://ceps.unh.edu/mathematics-statistics/master-science-statistics

Description

The mission of the Mathematics and Statistics program is twofold: to prepare students for a variety of exciting and rewarding career opportunities in business, industry, government and the teaching professions; and to advance forefront knowledge in the areas of pure mathematics, applied mathematics, statistics, and mathematics education through world-class cutting-edge research.

Visit our website for more details please visit the mathematics and statistics website. (http://ceps.unh.edu/mathematics-statistics/master-science-statistics)

Admission Requirement

Applicants for the M.S. with statistics option will typically have an undergraduate degree in the mathematical, physical, biological, or social sciences or in engineering# must have completed mathematical coursework at least through multivariate calculus# and must have knowledge of basic statistics and basic linear algebra at the undergraduate level.

Applying

Please visit the Graduate School website (http://gradschool.unh.edu/apply.php) for detailed instructions about applying to the master’s program.

Requirements

STATISTICS OPTION

This program requires 30 credit hours, consisting of at least ten semester courses approved by the department, which includes completion of a project (MATH 898) consisting of a substantial application of statistical methodology to a real problem. Most of the courses will be taken from the department’s statistics courses in the range MATH 837-MATH 979 and must include all of the following unless some of these or equivalent courses were taken prior to enrollment in the program:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 839</td>
<td>Applied Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 840</td>
<td>Design of Experiments I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 855</td>
<td>Probability with Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 856</td>
<td>Principles of Statistical Inference</td>
<td>3</td>
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At most, three of the required ten courses may also be taken from the department’s approved non-statistics courses and/or approved courses offered in other departments.

MATH 898, is conducted under the supervision of a faculty adviser and concludes with a written report and a public oral presentation.

MATH 898 may be taken for 3 to 6 credits, depending on the level of substantial research and methodological development required for project completion# the appropriate number of credits is determined by the statistics faculty. A master’s committee of at least two statistics faculty members oversees the student's progress and determines credit for the project. There is no comprehensive examination in this option.