**MATHEMATICS: STATISTICS (M.S.)**

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

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**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)

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**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.

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**Applying**

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

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**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>
</tr>
</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>
</tr>
</tbody>
</table>

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.