# M.S. in Statistics

The Statistics program accommodates students desiring an applied background for a career in government and industry as well as students desiring a more theoretical background for further graduate studies.

The Master of Science in Statistics degree is available in both a thesis (recommended) and a non-thesis option. For students electing the thesis option, the program requires 24 hours of acceptable course work and 6 hours of credit for the thesis. For students not electing to write a thesis, 36 hours of acceptable coursework, including Statistics 5396, are required. Students must enroll in Statistics 5195 each semester of residence. Comprehensive written exams are required of all students. Students who write a thesis may have a portion of the comprehensive examination waived.

## Degree Plan

Required Credits: 31-37

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 4326</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5321</td>
<td>Principles of Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STAT 5195</td>
<td>Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>STAT 5380</td>
<td>Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 5381</td>
<td>Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 5385</td>
<td>Statistics in Research</td>
<td>3</td>
</tr>
<tr>
<td>STAT 5388</td>
<td>Multivariate Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Select a thesis or non-thesis option: 12-18

### Thesis Option

- STAT 5398 Thesis 1
- STAT 5399 Thesis 2

Plus 6 more hours from Electives list below.

### Non-Thesis Option

- STAT 5396 Graduate Research

Plus 15 additional hours from Electives list below.

### Electives:

- STAT 5329 Statistical Programming
- STAT 5335 Applied Experimental Design
- STAT 5336 Categorical Data Analysis
- STAT 5354 Post-Genomic Analysis
- STAT 5370 Special Topics
- STAT 5386 Stochastic Processes
- STAT 5391 Time Series Analysis
- STAT 5392 Statistical Computing
- STAT 5428 Intro to Statistical Analysis
- STAT 5474 Introduction to Data Mining
- STAT 5494 Statistical Data Mining

**Total Hours** 31-37