# DATA ANALYTICS GRADUATE MAJOR (MS)

Offered via Ecampus only.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ST 351</td>
<td>INTRODUCTION TO STATISTICAL METHODS</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mathematics to the level of calculus is recommended but not required</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ST 516</td>
<td>FOUNDATIONS OF DATA ANALYTICS</td>
<td>4</td>
</tr>
<tr>
<td>ST 517</td>
<td>DATA ANALYTICS I</td>
<td>4</td>
</tr>
<tr>
<td>ST 518</td>
<td>DATA ANALYTICS II</td>
<td>4</td>
</tr>
<tr>
<td>ST 558</td>
<td>MULTIVARIATE ANALYTICS</td>
<td>3</td>
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<tr>
<td>ST 566</td>
<td>TIME SERIES ANALYTICS</td>
<td>3</td>
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<tr>
<td>ST 595</td>
<td>CAPSTONE PROJECT</td>
<td>3</td>
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**Statistics Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 511</td>
<td>PROGRAMMING AND DATA STRUCTURES</td>
<td>4</td>
</tr>
<tr>
<td>CS 512</td>
<td>DATA SCIENCE TOOLS AND PROGRAMMING</td>
<td>4</td>
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<tr>
<td>CS 513</td>
<td>(Pending submission and approval of a proposal)</td>
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**Computer Science Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ST 515</td>
<td>DESIGN AND ANALYSIS OF PLANNED EXPERIMENTS</td>
<td>4</td>
</tr>
<tr>
<td>ST 525</td>
<td>APPLIED SURVIVAL ANALYSIS</td>
<td>4</td>
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<tr>
<td>ST 537</td>
<td>DATA VISUALIZATION</td>
<td>4</td>
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<tr>
<td>ST 538</td>
<td>MODERN STATISTICAL METHODS FOR LARGE AND COMPLEX DATA SETS</td>
<td>4</td>
</tr>
<tr>
<td>ST 539</td>
<td>SURVEY METHODS</td>
<td>4</td>
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<tr>
<td>ST 588</td>
<td>(Pending submission and approval of a proposal)</td>
<td>4</td>
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<tr>
<td>ST 591</td>
<td>STATISTICAL METHODS FOR GENOMICS RESEARCH</td>
<td>4</td>
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Total Hours: 45

**Major Code:** 6160