## STATISTICS (M.S.)
(COMBINED B.S. MATH OF FINANCE/M.S.)

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Statistics Core</strong></td>
<td></td>
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<tr>
<td>STAT 541</td>
<td>Applied Statistics (^1)</td>
<td>3</td>
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<tr>
<td>STAT 542</td>
<td>Statistical Theory I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 543</td>
<td>Statistical Theory II</td>
<td>3</td>
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<tr>
<td>STAT 544</td>
<td>Statistical Computing</td>
<td>3</td>
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<tr>
<td>STAT 547</td>
<td>Design and Analysis of Experiments</td>
<td>3</td>
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<td>STAT 548</td>
<td>Applied Regression Analysis</td>
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**Statistics Electives**

Select one of the following: 3 credits

- STAT 640 Biostatistics I
- STAT 646 Multivariate Analysis
- STAT 648 Advanced Statistical Methods

Select 9 credits from the following: 9 credits

- STAT 545 Practicum in Statistics I
- STAT 546 Non-Parametric Statistics
- STAT 549 Sampling Techniques
- STAT 552 Intermediate Statistics Methods
- STAT 561 Statistical Data Mining I
- STAT 562 Statistical Data Mining II
- STAT 570 Statistical Consulting
- STAT 583 Fundamentals of Data Analysis
- STAT 595 Topics in Statistics
- STAT 597 Research Methods in Statistical Science
- STAT 640 Biostatistics I
- STAT 641 Biostatistics II
- STAT 642 Introduction to Stochastic Processes
- STAT 645 Advanced Topics in Statistics
- STAT 646 Multivariate Analysis
- STAT 647 Practicum in Statistics II
- STAT 648 Advanced Statistical Methods
- STAT 698 Master's Thesis
- STAT 699 Master's Thesis Extension

### Electives and Capstone Requirement

**Computer Science, Math and/or Statistics Electives**

Select 3 credits (with Thesis Option) - 6 credits (with Comprehensive Exam option) from the following:

- CMPT 578 Introduction to Artificial Intelligence
- CMPT 589 Computer Simulation of Discrete Systems
- CMPT 593 Structured System Design and Analysis
- CSIT 515 Software Engineering
- CSIT 555 Database Systems
- CSIT 571 Computer Algorithms and Analysis
- CSIT 655 Advanced Database Systems

**Capstone Experience**

Select one of the following options: 0-3 credits

- **Thesis Option**
  - STAT 698 Master's Thesis
  - Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.

- **Comprehensive Examination**
  - In the term that you will sit for exam, register for the section which matches your major & advisor. Successfully pass exam.
  - GRAD CMP Comprehensive Examination

**Total Credits**: 36

\(^1\) If equivalent of STAT 541 has been taken previously, see department for substitution.