# STATISTICS (M.S.)

## Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<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>
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<tr>
<td>STAT 543</td>
<td>Statistical Theory II</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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<tr>
<td>STAT 548</td>
<td>Applied Regression Analysis</td>
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### Statistics Electives

Select one of the following:

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

Select 6-9 credits from the following (6 credits for thesis option):

- STAT 545 Practicum in Statistics I
- STAT 546 Non-Parametric Statistics
- STAT 549 Sampling Techniques
- STAT 640 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 649 Independent Study in Statistics

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

Select one of 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
- CSIT 670 Advanced Computer Algorithms and Analysis
- MATH 540 Probability
- MATH 560 Numerical Analysis
- MATH 568 Applied Mathematics: Continuous
- MATH 569 Applied Mathematics: Discrete
- MATH 580 Combinatorial Mathematics
- MATH 584 Operations Research
- STAT 542 Statistical Theory I
- STAT 543 Statistical Theory II
- STAT 544 Statistical Computing
- STAT 545 Practicum in Statistics I
- STAT 546 Non-Parametric Statistics

### Culminating Experience

Select one of the following options: 0-3

- **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 0

Total Credits 33

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