# STATISTICS (M.S.)

## Program Requirements

### Statistics Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 541</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>STAT 544</td>
<td>Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td>STAT 547</td>
<td>Design and Analysis of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>STAT 548</td>
<td>Applied Regression Analysis</td>
<td>3</td>
</tr>
</tbody>
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### Statistics Electives

Select one of the following: 3

- 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): 6-9

- STAT 545 Practicum in Statistics I
- STAT 546 Non-Parametric Statistics
- STAT 549 Sampling Techniques
- STAT 640 Biostatistics II
- 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 649 Independent Study in Statistics
- STAT 698 Master's Thesis
- STAT 699 Master's Thesis Extension

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

Select one of the following: 3

- 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
- STAT 547 Design and Analysis of Experiments
- STAT 548 Applied Regression Analysis
- 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 649 Independent Study in Statistics
- STAT 698 Master's Thesis
- STAT 699 Master's Thesis Extension

### 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.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GRAD CMP</td>
<td>Comprehensive Examination</td>
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### Total Credits

33

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