# Program Requirements

## Statistics Core
- STAT 541 Applied Statistics $^1$ 3
- STAT 542 Statistical Theory I 3
- STAT 543 Statistical Theory II 3
- STAT 544 Statistical Computing 3
- STAT 547 Design and Analysis of Experiments 3
- STAT 548 Applied Regression Analysis 3

## 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 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

## 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

## Culminating Experience
Select one of the following options: 0-3
- Thesis Option
  - STAT 698 Master’s Thesis
  - Complete the Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.

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

## Total Credits
- 33

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