

Applied Mathematics Major Requirements (54)

Foundation Courses

- CMPUT 174 - Introduction to the Foundations of Computation I (See Note 1)
- CMPUT 175 - Introduction to the Foundations of Computation II (See Note 1)

3 units from:

- MATH 117 - Honors Calculus I _____
- MATH 134 - Calculus for the Life Sciences I _____
- MATH 144 - Calculus for the Mathematical and Physical Sciences I _____
- MATH 154 - Calculus for Business and Economics I _____

3 units from:

- MATH 118 - Honors Calculus II _____
- MATH 136 - Calculus for the Life Sciences II _____
- MATH 146 - Calculus for the Mathematical and Physical Sciences II _____
- MATH 156 - Calculus for Business and Economics II _____

3 units from:

- MATH 125 - Linear Algebra I _____
- MATH 127 - Honors Linear Algebra I _____

Senior Courses

- MATH 216 - Introduction to Analysis
- MATH 337 - Introduction to Partial Differential Equations
- MATH 381 - Numerical Methods
- STAT 265 - Probability and Statistics I

3 units from:

- MATH 214 - Calculus III _____
- MATH 217 - Honors Calculus III _____

3 units from:

- MATH 225 - Linear Algebra II _____
- MATH 227 - Honors Linear Algebra II _____

3 units from:

- MATH 315 - Calculus IV _____
- MATH 317 - Honors Calculus IV _____

3 units from:

- MA PH 364 - Group Theory in Physics _____
- MATH 327 - Algebra I _____

3 units from:

- MATH 334 - Ordinary Differential Equations _____
- MATH 336 - Honors Ordinary Differential Equations _____

3 units from:

- MATH 371 - Mathematical Modelling in the Life Sciences _____
- MATH 372 - Mathematical Modelling _____

3 units from:

- MATH 311 - Theory of Functions of a Complex Variable _____
- MATH 411 - Honors Complex Variables _____

6 units from:

- MATH and/or MA PH at the 400-level _____
- _____

Notes:

1. CMPUT 274 and CMPUT 275 can serve as substitutes for CMPUT 174 and CMPUT 175, respectively.
2. Students who successfully complete MATH 117 must replace MATH 216 with 3 units selected from MATH at the 200-level or higher.
3. With consent of the Department, students may substitute MATH 100 for MATH 117, MATH 134, MATH 144 or MATH 154; MATH 101 for MATH 118, MATH 136, MATH 146 or MATH 156; MATH 102 for MATH 125 or MATH 127.
4. Several of the required courses, including MATH 411, may only be offered in alternate years.

- COMM
- COMM
- IND
- BO__
- BO__
- BSBS
- BSFS
- BSSS
- LAB