Mathematics Major Requirements (51)

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 (See Note 2)
- ☐ MATH 226 - Algebraic Structures (See Note 3)
- ☐ 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:
MATH 334 - Ordinary Differential Equations
MATH 336 - Honors Ordinary Differential Equations ———————————

3 units from:
MA PH 364 - Group Theory in Physics
MATH 327 - Algebra I
———————————

3 units from:
MATH 311 - Theory of Functions of a Complex Variable
MATH 411 - Honors Complex Variables
———————————

3 units from:
MATH 348 - Differential Geometry of Curves and Surfaces
MATH 448 - Introduction to Differential Geometry ———————————

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. Students who complete MATH 127 and MATH 227 can replace MATH 226 with 3 units selected from any 200-, 300-, and 400-level MATH course.
4. 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.
5. Several of the 400-level options, including MATH 411 and MATH 448, may only be offered in alternate years.

☐ COMM
☐ COMM
☐ IND
☐ BO___
☐ BO___
☐ BSBS
☐ BSFS
☐ BSSS
☐ LAB