Updated September 2019

**FALL**

1. Math 1002
   - Algebra I

2. Math 1102
   - Calculus and Introductory Analysis I

3. Math 1800
   - Introduction to Mathematical Reasoning

**WINTER**

1. Math 2100
   - Algebra II (Honours)

2. Math 2000
   - Calculus and Introductory Analysis II (Honours)

3. Math 2454
   - Ordinary Differential Equations

4. Math 2604
   - Modern Physics I

5. Phys 1001
   - Foundations of Physics I

6. Phys 1002
   - Foundations of Physics II

7. Comp 1005
   - Introduction to Computer Science I

8. Chem or Biol or Erth (1st course)

**SECOND YEAR**

**FALL**

1. Math 2202
   - Wave Motion and Optics

2. Math 2305
   - Electricity and Magnetism

3. Math 3705
   - Mathematical Methods I

4. Phys 2305
   - Electricity and Magnetism

5. Phys 2401
   - Thermal Physics

6. Phys 2604
   - Modern Physics I

7. Phys 2202
   - Wave Motion and Optics

8. Experimental Science
   - Chem or Biol or Erth (2nd course)

**WINTER**

1. Math 2655
   - Introduction to Probability with Applications

2. Math 3057
   - Functions of a Complex Variable

3. Phys 3701
   - Elements of Quantum Mechanics

4. Phys 3308
   - Electromagnetism

5. Phys 3802
   - Advanced Dynamics

**THIRD YEAR**

**FALL**

1. Math 3008
   - Ordinary Differential Equations

2. Math 3001
   - Real Analysis I (Honours)

3. Phys 3007
   - Introduction to Quantum Mechanics I

4. Phys 4707
   - Introduction to Thermodynamics and Statistical Mechanics

5. Phys 4708
   - Introduction to Quantum Mechanics II

**WINTER**

1. Math 4707
   - Introduction to Thermodynamics and Statistical Mechanics

2. Phys 4909
   - Full year project

   Or

   - Math 4905 or Phys 4907/4908
   - Requires 4th year standing

**FOURTH YEAR**

**FALL**

1. 1.0 credit from 4000-level or higher Math, Stat

2. 0.5 credit from:
   - Math 3002, Math 3003, Math 3106, Phys 3007, Phys 3606

3. 1.0 credit from Phys at the 4000 level

4. 2.0 credits in Approved courses outside the faculties of Science and Engineering and Design, one of which can be NSCI 1000

5. Plus

   1.0 credit in free electives

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**Note:**
- Dashed connecting lines indicate a prerequisite that may be taken concurrently.
- Some Experimental Science, Comp, Elec, and Math, and many elective courses are also offered in summer, which may help to reduce your course load in the Fall and Winter terms.