### Year 1 (5.0 Courses)

- Calculus 1000A/B or 1500A/B
- Calculus 1501A/B or Calculus 1301A/B with a mark of at least 85%
- Mathematics 1600A/B
- Computer Science 1026 A/B and Computer Science 1027A/B
- 0.5 other principal courses

**NOTE:** At least 1.0 course must be chosen from two of Category A, B, and C as listed in the Academic Calendar (e.g. 1.0 from A and 1.0 from C).

### Admission to Honors Specialization Module:

Complete first year (5.0 courses) with no failures including:

- Minimum average of 70% on 3.0 principal courses with no mark less than 60% in any of the 3.0 principal courses:
  - Calculus 1000A/B or Calculus 1500A/B
  - Calculus 1501A/B or Calculus 1301A/B with a mark of at least 85%
  - Mathematics 1600A/B
  - Computer Science 1026 A/B and Computer Science 1027 A/B
  - 0.5 other principal course

**require min grade of 65% in CS1027 for some 2000 level modular CS courses**

#### Recommended (but not required) first year courses:
- Statistics 1023A/B

**NOTE 1:** If not taken in first year, Math 1600A/B must be completed prior to the second term of second year.

**NOTE 2:** AM1413 may be substituted for the 1.0 Calculus course requirements and AM1411 A/B may be substituted for Mathematics 1600 A/B.

### MODULE (10.0 Courses)

**3.5 courses:** Computer Science 2035A/B, 2210A/B, 2211A/b, 2214A/b, 3319A/b, 3340A/b, 4414A/B.

**4.5 courses:** Statistical Sciences 2857A/B, 2858A/B, 2864A/B, 3843A/B, 3850A/B, 3859A/B, 3860F/G, 4844A/B, 4850A/B.


**0.5 courses** from: Any 4000-level course offered by the Department of Computer Science or the Department of Statistical and Actuarial Sciences

**NOTE:** A minimum of 4.5 modular courses must be completed from each of the Departments of Computer Science, and Statistical and Actuarial Sciences.

### OPTIONS (5.0 Courses)

An additional Major or Minor module may be taken, excluding Applied Statistics. Note that if you are considering a Computer Science (CS) module, you should consult with the CS department.

You must complete this additional module with a minimum mark of 60%.

**Notes:**
- Courses common to more than one module taken require substitution. However, if both modules are from the faculty of science, a maximum of 1.0 courses that are explicitly required for each module can be counted towards both modules.

### Progression Requirements

- Minimum cumulative modular average of 70%
- Minimum mark of 60% in each course of module
- Passing grade in each option

### Graduation Requirements

#### Breadth Requirement:
- At least 1.0 course from each of Category A, B, and C as listed in the Academic Calendar.

#### Essay Requirement:
- 2.0 essay courses (1.0 must be senior course). Note that any modular essay course taken can be used towards this requirement.

#### Senior Courses:
- 13.0 senior courses (numbered 2000-4999)

#### Average Requirements:
- Minimum overall average of 65% on the 20.0 courses
- Minimum cumulative modular average of 70% and a minimum mark of 60% in each course of the module
- Passing grade in each course
- Minimum cumulative modular average of 60% in any additional Major or Minor module completed

#### Residency Requirement:
- Minimum of 15.0 courses must be completed at Western University, as well as the majority of your modular courses

**Note:**
To graduate with an Honors BSc, at least 11.0 of your 20.0 courses must be taken from the Faculty of Science.

#### Notes for students interested in graduate programs:
- If interested in Stats grad programs should take SS3657a & SS3858b
- If interested in Comp Sci grad programs should take CS2212A/B

### Department Recommendation for order in which modular courses should be taken:

#### Second Year
- CS2210A/B Data Structure and Algorithms
- CS2211A/B Software Tools and Systems Programming
- SS2857A Probability and Statistics I
- CS2035B Dealing with Data: Analysis and Visualization
- CS2214B Discrete Structures for Computing
- SS2858B Probability & Statistics II
- SS2864B Statistical Programming

#### Third Year
- CS3319A Databases I
- CS4414A Data Science I
- SS3843A Introduction to Study Design
- SS3859A Regression
- CS3340B Analysis of Algorithms I
- SS3850G Data Analysis
- SS3860A/B Generalized Linear Models

#### Fourth Year
- SS4844A/B Statistical Consulting
- SS4850G Advanced Data Analysis
- 1.5 courses from the “1.5 modular course selection list” (less, if some were taken in 3rd year)
- 0.5 courses from the “0.5 modular course selection list”