### 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 principal courses:
  - Calculus 1000/A/B or 1500/A/B
  - Calculus 1501/A/B or Calculus 1301/A/B with a mark of at least 85%
  - Mathematics 1600/A/B
  - 1.5 other principal course

**Recommended (but not required) first year courses:**
- Economics 1021/A/B and 1022/A/B, Computer Science 1026/A/B and/or Computer Science 1027/A/B, Philosophy 1200

**Note 1:** If not taken in first year, Math 1600/A/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 (9.5 Courses) **
- **3.5 courses:** Statistical Sciences 2503/A/B, 2857/A/B, 2858/A/B, 2864/A/B, 3657/A/B, 3858/A/B, 4861/A/B.
- **0.5 courses:** Actuarial Science 2553/A/B.
- **3.0 courses:** Financial Modelling 2555/A/B, 2557/A/B, 3520/A/B, 3613/A/B, 3817/A/B, 4521/A/B.
- **2.0 courses:** Calculus 2402/A/B, Applied Math 2811/B, 2814/G, 3815/A/B
- **0.5 courses from:** Applied Math 3611/F/G, 4613/A/B, Calculus 2402/A/B, Applied Math 2811/B, 2814/G, 3815/A/B
- **0.5 courses from:** Applied Math 3611/F/G, 4613/A/B, Calculus 2402/A/B, Applied Math 2811/B, 2814/G, 3815/A/B

**Calculators:**
- Calculus 2402/A/B may be replaced by (Calculus 2502/A/B + Calculus 2503/A/B).
- When such a replacement occurs, the module will include 10.0 courses.

### OPTIONS (5.5 Courses)
These may also include any additional module other than Actuarial Science.

**If taking another module that includes an intro stats course (anti-req to SS2858), please consult with other department regarding course substitution.**

Also, you must complete any additional module with a minimum 60% average.

**Notes:**
Courses common to more than one module taken require substitution.

### Progression Requirements
- Minimum cumulative modular average of 70%
- Minimum mark of 60% in each course of module
- Passing grade in each optional course

### 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:**
- The majority of your modular courses must be completed at Western University. Please check academic calendar for other residency requirements.

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

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

#### Second Year
- **AS2553A** Mathematics of Finance
- **FM2555A** Corporate Finance
- **Cal2402A** Calculus with Analysis for Statistics
- **SS2857A** Probability and Statistics I
- **FM2555B** Financial Markets and Investments
- **SS2503B** Advanced Mathematics with Statistical Applications
- **AM2811B** Linear Algebra II
- **AM2814G** Numerical Analysis*
- **SS2858B** Probability and Statistics II
- **SS2864B** Statistical Programming*

  *can be taken in 3rd year

#### Third Year
- **AM3815A** Partial Differential Equations I
- **SS3657A** Intermediate Probability
- **FM3613B** Mathematics of Financial Options**
- **FM3817B** Optimization Methods for Financial Modelling**
- **FM3520B** Financial Modelling I
- **SS3858B** Mathematical Statistics
- Any 2000 level modular courses not yet completed

  **can be taken in 4th year

#### Fourth Year
- **FM4521B** Advanced Financial Modelling
- **SS4861B** Time Series
- 0.5 courses from the “0.5 modular course selection list”