BSc or BA (3 or 4 year): Major in Financial Modelling (20.0 courses)

This is a guide only. For complete information, see the current Online Academic Calendar

Last updated July 11, 2016

### Year 1 (5.0 Courses)
- Calculus 1000A/B or 1500A/B (or the former 1500A/B)
- Calculus 1501A/B or (Calculus 1301B with a mark of at least 85%)
- Mathematics 1600 A/B or the former Linear Algebra 1600 A/B
- 1.5 other principal courses
- 2.0 options

**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 the Major Module:
Complete first year (5.0 courses) with no failures including:
- Minimum grade of 60% in each of:
  - Calculus 1000A/B or Calculus 1100A/B
  - Calculus 1301A/B with a mark of at least 85% or Calculus 1501A/B
  - Mathematics 1600 A/B
  - 1.5 other principal courses

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

**NOTE 1:** Math1600A/B is normally taken in Year 1. If not taken in Year 1, it must be completed in the first term of Year 2. AM1411A/B may be substituted for Math 1600 A/B.

**NOTE 2:** AM1413 may be substituted for the Calculus course requirements.

### Module (6.0 courses) **
- **0.5 courses:** Actuarial Science 2553A/B.
- **1.5 courses:** Calculus 2402A/B, Applied Math 2814F/G, 3815A/B.
- **1.5 courses:** Financial Modelling 2555A/B, 2557A/B, 3817A/B.
- **2.0 courses:** Statistical Sciences 2503A/B, 2857A/B, 2858A/B, 3657A/B.
- **0.5 course:** from: Financial Modelling 3613B, Financial Modelling 3520A/B.

Calculation 2402A/B may be replaced by either (Calculus 2502A/B and Calculus 2503A/B) or (Calculus 2502A/B and Mathematics 2123A/B). When such a replacement occurs, the module will include 6.5 courses.

### Options (9.0) Courses for 4 year degree
An additional Major or Minor module may be taken here. You must successfully complete this additional module with a minimum mark of 60%.

**Notes:**
- For a 3 year degree, you require only 4.0 optional courses
- Most modular course pre-requisites stipulate a minimum grade of 60%
- Courses common to more than one module taken require substitution
- If you’re considering completing another module (e.g. double major), the other module must be from a different department

### Progression Requirements
- Satisfy the progression requirements for the University (Level 1 and Level II as described in the Academic Calendar)

### 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). Any Actuarial, Financial Modelling or Statistical Sciences essay course taken can be used towards this requirement.

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

#### Average Requirements:
- Minimum overall average of 60% on the 20.0 courses
- Minimum cumulative modular average of 60% in the major 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 (for 4 year degree) must be completed at Western University, as well as the majority of your modular courses

To graduate with a 4 year BSc, a total of at least 11.0 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 Financial Analysis
- FM2555A Corporate Finance
- Calc2402A Calculus with Analysis for Statistics
- SS2857A Probability and Statistics I
- FM2557B Financial Markets and Investments
- SS2503B Advanced Mathematics for Statistical Applications
- AM2814G Numerical Analysis
- SS 2858B Probability and Statistics II

#### Third Year
- AM3815A Partial Differential Equations
- SS3567A Intermediate Probability
- FM3817B Optimization Methods for Financial Modeling

0.5 of FM3613A/B Mathematics of Financial Options, FM3520A/B Financial Modelling I

#### Fourth Year
Any modular courses not yet completed

**The following course subject name/number changes have been made effective September 2014. Equivalency is automatic when determining the fulfillment of modular requirements:**

AM2503→SS2503; AM3613→FM3613; AM3817→FM3817; AS2555→FM2555; AS2557→FM2557; SS3520→FM3520; SS4521→FM4521; SS4998→FM4998; AM2813→AM2814

** Last updated July 11, 2016