

Honors Specialization in Financial Modeling Module (20.0 courses)

This is a guide only. For complete information, see the [Online Academic Calendar](#)

Last updated June 22, 2019

<p>Year 1 (5.0 Courses)</p> <p>Calculus 1000A/B or 1500A/B</p> <p>Calculus 1501A/B (recommended) or Calculus 1301A/B with a mark of 85%+</p> <p>Math 1600 A/B</p> <p>1.5 other principal courses</p> <p>2.0 options</p> <p>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)</p>	<p>Graduation Requirements</p> <p>Breadth Requirement:</p> <ul style="list-style-type: none"> At least 1.0 course from each of Category A, B, and C as listed in the Academic Calendar. <p>Essay Requirement:</p> <ul style="list-style-type: none"> 2.0 essay courses (1.0 must be senior course). Note that any modular essay course taken can be used towards this requirement <p>Senior Courses:</p> <ul style="list-style-type: none"> 13.0 senior courses (numbered 2000-4999) <p>Average Requirements:</p> <ul style="list-style-type: none"> 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 <p>Residency Requirement:</p> <ul style="list-style-type: none"> The majority of your modular courses must be completed at Western University. Please check academic calendar for other residency requirements. <p>Note: To graduate with an Honors BSc, at least 11.0 of your 20.0 courses must be taken from the Faculty of Science</p>
<p>Admission to Honors Specialization Module:</p> <p>Complete first year (5.0 courses) with no failures including:</p> <ul style="list-style-type: none"> Minimum average of 70% on 3.0 principal courses with no mark less than 60% in any of the 3 principal courses: <ul style="list-style-type: none"> Calculus 1000A/B or 1500A/B Calculus 1501A/B or Calculus 1301A/B with a mark of at least 85% Mathematics 1600 A/B 1.5 other principal course <p>Recommended (but not required) first year courses: Economics 1021A/B and 1022A/B, Computer Science 1026 A/B and/or Computer Science 1027A/B, Philosophy 1200</p> <p>NOTE 1: If not taken in first year, Math 1600A/B must be completed prior to the second term of second year.</p> <p>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.</p>	<p>Department Recommendation for order in which modular courses should be taken:</p> <p>Second Year</p> <p>AS2553A Mathematics of Finance FM2555A Corporate Finance Cal2402A Calculus with Analysis for Statistics SS2857A Probability and Statistics I FM2557B 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*</p> <p>*can be taken in 3rd year(Stats 2864 now offered in both terms)</p>
<p>MODULE (9.5 Courses) @</p> <p>3.5 courses: Statistical Sciences 2503A/B, 2857A/B, 2858A/B, 2864A/B, 3657A/B, 3858A/B, 4861A/B.</p> <p>0.5 courses: Actuarial Science 2553A/B.</p> <p>3.0 courses: Financial Modelling 2555A/B, 2557A/B, 3520A/B, 3613A/B, 3817A/B, 4521A/B.</p> <p>2.0 courses: Calculus 2402A/B**, Applied Math 2811B, 2814F/G, 3815A/B</p> <p>0.5 courses from: Applied Math 3611F/G, 4613A/B^{##}, 4617A/B[#], 4999Z, Financial Modeling 4998F/G/Z, Statistical Sciences 4960F/G, 4999F/G/Z or Actuarial Science 4997F/G/Z.</p> <p>**Calculus 2402A/B may be replaced by (Calculus 2502A/B + Calculus 2503A/B). When such a replacement occurs, the module will include 10.0 courses.</p> <p># May be offered only in odd-numbered academic years. ## May be offered only in even-numbered academic years.</p> <p>@ Module shown is as per current calendar year. You may complete module using current calendar year <u>or</u> using calendar in effect in year of module entry</p>	<p>Third Year</p> <p>AM3815A Partial Differential Equations I SS3657A Intermediate Probability FM3520A Financial Modelling I</p> <p>FM3613B Mathematics of Financial Options** FM3817B Optimization Methods for Financial Modelling** SS3858B Mathematical Statistics</p> <p>Any 2000 level modular courses not yet completed</p> <p>**can be taken in 4th year</p>
<p>OPTIONS (5.5 Courses)</p> <p>These may also include any additional module <i>other than Actuarial Science</i>.</p> <p>If taking another module that includes an intro stats course (anti-req to SS2858), please consult with other department regarding course substitution.</p> <p>Also, you must complete any additional module with a minimum 60% average.</p> <p>Notes: Courses common to more than one module taken require substitution. However if both modules are from faculty of science, a maximum of 1.0 courses <i>explicitly required for each module</i> can be counted towards both modules</p> <p>2nd Degree students should meet with a faculty counsellor to review other degree requirements (e.g. other than modular courses needed)</p>	<p>Fourth Year</p> <p>FM4521B Advanced Financial Modelling SS4861B Time Series</p> <p>0.5 courses from the "0.5 modular course selection list"</p>
<p>Progression Requirements</p> <ul style="list-style-type: none"> Minimum cumulative modular average of 70% Minimum mark of 60% in each course of module Passing grade in each optional course 	