

# Major in Financial Modelling Module (15.0 or 20.0 courses)

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

Last updated June 22, 2019

<p><b>Year 1 (5.0 Courses)</b></p> <p>Calculus 1000A/B or 1500A/B</p> <p>Calculus 1501A/B(<b>recommended</b>) or Calculus 1301A/B with a mark of 85%+</p> <p>Mathematics 1600 A/B</p> <p>1.5 other principal courses</p> <p>2.0 options</p> <p><b>NOTE:</b> 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><b>Admission to the Major Module:</b> Complete first year (5.0 courses) with no failures including:</p> <ul style="list-style-type: none"> <li>Minimum grade of 60% in each of: <ul style="list-style-type: none"> <li>Calculus 1000A/B or Calculus 1100A/B</li> <li>Calculus 1301A/B with a mark of at least 85% or Calculus 1501A/B</li> <li>Mathematics 1600 A/B</li> <li>1.5 other principal courses</li> </ul> </li> </ul> <p><b>Recommended (but not required ) first year courses:</b> Economics 1021A/B and Economics 1022A/B, Philosophy 1200, Computer Science 1026A/B.</p> <p><b>NOTE 1:</b> If not taken in first year, Math 1600A/B must be completed prior to the second term of second year.</p> <p><b>NOTE 2:</b> 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><b>Graduation Requirements</b></p> <p><b>Breadth Requirement:</b></p> <ul style="list-style-type: none"> <li>At least 1.0 course from each of Category A, B, and C as listed in the Academic Calendar</li> </ul> <p><b>Essay Requirement:</b></p> <ul style="list-style-type: none"> <li>2.0 essay courses (1.0 must be senior course). Note that any modular essay course taken can be used towards this requirement</li> </ul> <p><b>Senior Courses:</b></p> <ul style="list-style-type: none"> <li>13.0 senior courses (numbered 2000-4999)</li> </ul> <p><b>Average Requirements-for a general degree **: </b></p> <ul style="list-style-type: none"> <li>Minimum overall average of 60% on the 20.0 courses</li> <li>Minimum cumulative modular average of 60% in the major module</li> <li>Passing grade in each course</li> <li>Minimum cumulative modular average of 60% in any additional Major or Minor module completed</li> </ul> <p><b>Residency Requirement</b></p> <ul style="list-style-type: none"> <li>The majority of your modular courses must be completed at Western University. Please check academic calendar for other residency requirements.</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li><b>** honors degree(with double major) requires a 70% average within each module</b>, with no Ds in any modular course</li> <li><b>To graduate with a 4 year general or honors BSc degree</b>, at least 11.0 of 20.0 courses must be from Faculty of Science</li> <li><b>To graduate with a 3 year BSc degree</b>, at least 8.0 of your 15.0 courses must be taken from the Faculty of Science.</li> </ul>
<p><b>MODULE (6.0 courses) @</b></p> <p><b>0.5 courses:</b> Actuarial Science 2553A/B.</p> <p><b>1.5 courses:</b> Calculus 2402A/B**, Applied Math 2814F/G, 3815A/B.</p> <p><b>1.5 courses:</b> Financial Modelling 2555A/B, 2557A/B, 3817A/B.</p> <p><b>2.0 courses:</b> Statistical Sciences 2503A/B, 2857A/B, 2858A/B, 3657A/B.</p> <p><b>0.5 course</b> from: Financial Modelling 3613A/B, Financial Modelling 3520A/B.</p> <p><b>**</b> Calculus 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.</p> <p>@ <b>Module shown is as per current calendar year.</b> You may complete module using current calendar year <u>or</u> using calendar in effect in year of module entry</p>	<p><b>Department Recommendation for order in which modular courses should be taken:</b></p> <p><b>Second Year</b></p> <p><b>AS2553A</b> Mathematics of Finance</p> <p><b>FM2555A</b> Corporate Finance</p> <p><b>Calc2402A</b> Calculus with Analysis for Statistics</p> <p><b>SS2857A</b> Probability and Statistics I</p> <p><b>FM2557B</b> Financial Markets and Investments</p> <p><b>SS2503B</b> Advanced Mathematics for Statistical Applications</p> <p><b>AM2814G</b> Numerical Analysis</p> <p><b>SS2858B</b> Probability and Statistics II</p>
<p><b>OPTIONS (9.0) Courses for a 4 year Degree @@</b></p> <p>These may also include any additional module <i>other than Actuarial Science</i>.</p> <p><b>If taking another module that includes an intro stats course (anti-req to SS2858), please consult with other department regarding course substitution.</b></p> <p>Also, you must complete any additional module with a minimum 60% average.</p> <p><b>Notes:</b> @@ <b>A 3 year degree (FM major only) requires only 4 optional courses.</b></p> <p>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 <u>explicitly required for each module</u> can be counted towards both modules.</p> <p><b>2<sup>nd</sup> Degree students should meet with</b> a faculty counsellor to review other degree requirements (e.g. other than modular courses needed)</p>	<p><b>Third Year</b></p> <p><b>AM3815A</b> Partial Differential Equations</p> <p><b>SS3657A</b> Intermediate Probability</p> <p><b>FM3817B</b> Optimization Methods for Financial Modeling</p> <p><b>0.5 FM3613b</b> Mathematics of Financial Options, <b>or FM3520a</b> Financial Modelling I</p>
<p><b>Progression Requirements</b></p> <ul style="list-style-type: none"> <li>Satisfy the progression requirements for the University (Level 1 and Level II as described in the Academic Calendar)</li> <li>See graduation requirements for honors degree (with double major)</li> <li><b>Note:</b> some modular course pre-requisites stipulate min. grade of 60%</li> </ul>	<p><b>Fourth Year</b></p> <p><b>Any modular courses not yet completed</b></p>