

Honors Specialization in Statistics (20.0 courses)

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

Last updated June 8, 2021

<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>Mathematics 1600A/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>Admission to Honors Specialization Module: 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 1600A/B 1.5 other principal course <p>Recommended (but not required) first year courses; Statistical Sciences 1023A/B (and/or Statistical Sciences 1024A/b)</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>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 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>MODULE (9.0 Courses) #</p> <p>6.0 courses: SS 2503A/B, 2857A/B, 2858A/B, 2864A/B, 3657A/B, 3843A/B, 3858A/B, 3859A/B, 3860A/B, 4850F/G, 4861A/B, DS3000A/B</p> <p>0.5 courses: Calculus 2402A/B **</p> <p>1.5 courses from: Actuarial Science 4823A/B, Statistical Sciences 4844A/B, 4846A/B, 4860A/B, 4864A/B.</p> <p>1.0 courses from: Actuarial Science 3424A/B, 4824A/B, 4823A/B, Financial Modelling 3520A/B, 3613A/B, 3817B, 4521A/B, AM3815A/B, any Statistical Sciences course at the 4000 level.</p> <p>** Calculus 2402A/B may be replaced by (Calculus 2502A/B +Calculus 2503A/B). When such a replacement occurs, the module will include 9.5 courses.</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>Department Recommendation for order in which modular courses should be taken:</p> <p>Second Year</p> <p>Calculus 2402A Calculus with Analysis for Statistics SS2857A Probability and Statistics I</p> <p>SS2503B Advanced Mathematics for Statistical Applications SS2858B Probability & Statistics II SS2864B Statistical Programming (now offered both terms)</p>
<p>OPTIONS (6.0 Courses)</p> <p>These may also include any additional module in the calendar, <i>excluding any other modules offered by the Department of Statistical and Actuarial Science.</i></p> <p>If taking another module that includes an intro stats course (anti-req to S2858), 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. 2nd Degree students should meet with a faculty counsellor to review other degree requirements (e.g other than modular courses needed).</p>	<p>Third Year</p> <p>SS3843A Introduction to Study Design SS3859A Regression SS3657A Intermediate Probability</p> <p>DS3000B Introduction to Machine Learning SS3860B Generalized Linear Models SS3858B Mathematical Statistics</p> <p>1.0 courses from the 1.5 and/or the 1.0 modular course selection lists</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 option 	<p>Fourth Year</p> <p>SS4850F/G Advanced Data Analysis SS4861B Time Series</p> <p>1.5 courses from the 1.5 and/or the 1.0 modular course selection lists</p>