## Major in Applied Statistics Module (20.0 courses)

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

Last updated July 18, 2018

### 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 1500A/B
  - Calculus 1501A/B or Calculus 1301B with a mark of at least 85%
  - Mathematics 1600A/B
  - 1.0 courses from Psychology 1000, Biology 1001A or 1201A, Biology 1002B or 1202B, or Sociology 1020
  - 0.5 other principal course

### Recommended (but not required) first year courses:

- Statistical Science 1024A/B and/or Statistical Science 1023A/B.

### MODULE (6.0 courses) **

- 0.5 course: Calculus 2402A/B.
- 0.5 course from: Biology 2290F/G, Sociology 2206A/B, Psych 2800E. #
- 0.5 course: Epidemiology 2200B.
1.0 course from: Applied Mathematics 2402A, 3615A/B, Financial Modelling 3817A/B; Probability & Statistics II 3850F/G; Sociology 2236A/B, 4441A/B; Statistical Science 4846A/B, 4850F/G, 4853A/B, or any approved Statistics course at the 3000-level or higher.
- 0.5 course from: Statistical Science 4846A/B, 4853A/B.

### OPTIONS (9.0) Courses: 4 year general/honors degree only

These may also include any additional module, excluding Data 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.

However, if both modules are from faculty of science, a maximum of 1.0 courses explicitly required for each module 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).

### 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 - for a 4 yr general degree **:
- 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:**
- The majority of your modular courses must be completed at Western University. Please check academic calendar for any other residency requirements

**Notes:**
- ** honors degree (with double major) requires a 70% average within each of the 2 modules, with no Ds in any required course
- To graduate with either a 4 year general or Honors BSc degree, 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**

- Calculus 2402A Calculus with Analysis for Statistics
- SS2857A Probability and Statistics I
- SS2858B Probability & Statistics II
- SS2864B Statistical Programming

One of:
- Biology 2290F/G - Scientific method in Biology or Sociology 2206A/B - Research Methods in Sociology, or Psych 2800E - Research methods in Psychology

### Third Year

- SS3843A Introduction to Study Design
- SS3859A Regression
- SS3850G Data Analysis
- Epidemiology 2200B* - Introduction to Epidemiology

1.0 Courses from modular selection list(s). Note that Statistics 3860B may be used for this purpose

* this course can be taken concurrently with Stats 2858b

### Fourth Year

One of Stats 4846A/B or Stats 4853A/B

Any modular courses not yet completed

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**Recommended (but not required) first year courses:** Statistical Science 1024A/B and/or Statistical Science 1023A/B.

**NOTE:** If not taken in first year, Math 1600A/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 (6.0 courses) **

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