

**Overall Major Requirements**

- 42-60 non-duplicative credits
- A minimum of 36 senior-level credits
- A minimum of 6 credits at the 400-level

**Required Courses for the Applied Statistics Major\***

Applied Statistics majors are required to complete the following courses:

- MATH 114 Elementary Calculus I
- MATH 115 Elementary Calculus II
- MATH 120 Basic Linear Algebra I **OR** MATH 125 Linear Algebra I
- CMPT 101 Introduction to Computing I **OR** CMPT 103 Introduction to Computing II

**Specific Major Requirements**

24 Credits

- MATH 214 Intermediate Calculus I
- MATH 215 Intermediate Calculus II
- MATH 225 Linear Algebra II
- STAT 265 Probability Theory
- STAT 266 Mathematical Statistics
- STAT 378 Applied Regression Analysis
- STAT 496 Statistical Consulting Project

Choose 3 credits:

- STAT 350 Sampling Design and Application
- STAT 353 Design and Analysis of Experiments

**General Major Requirements**

18 to 36 Credits

- |                                                 |                                     |                                     |
|-------------------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> STAT _____ (400-level) | <input type="checkbox"/> STAT _____ | <input type="checkbox"/> STAT _____ |
| <input type="checkbox"/> STAT _____             | <input type="checkbox"/> STAT _____ | <input type="checkbox"/> STAT _____ |
| <input type="checkbox"/> STAT _____             | <input type="checkbox"/> STAT _____ | <input type="checkbox"/> STAT _____ |
| <input type="checkbox"/> STAT _____             | <input type="checkbox"/> STAT _____ | <input type="checkbox"/> STAT _____ |

**Applied Statistics Major (42 to 60 credits)**

**Total Credits:** \_\_\_\_\_

### **Important Planning Notes**

1. \*Engineering students who have successfully completed MATH 100, MATH 101, MATH 102, ENCP 100 will have the equivalents of MATH 114, MATH 115, MATH 125 and CMPT 101. See an advisor for full details.
2. Courses required for the major may be used to satisfy the breadth requirements in a Bachelor of Arts or Science degree. Please refer to the applicable degree planner for details.
3. Students are required to consult the MacEwan University academic calendar to ensure they meet prerequisites for all courses they enrol in.
4. Please keep in mind that course offerings will vary from academic year to academic year.

### **Statistics Course Offerings**

Please refer to the academic calendar or [MacEwan.ca/Science](http://MacEwan.ca/Science) > Disciplines > Statistics for further information regarding course offerings.