

## Statistics 3859A Course Outline

### 1. General Course Information

Statistics 3859A,

Lectures: MWF 1:30-2:30 PM, NCB-117

Tutorial: Tuesday 3:30-4:30 PM, TC-141

### Prerequisite Requirements

A minimum mark of 60% in [Statistical Sciences 2858A/B](#).

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

### 2. Instructor Information

Professor A. I. McLeod, PhD (1978) and full member of the International Statistical Institute since 1985. Currently Associate Editor for the Journal of Time Series Analysis and for the Environmetrics journal.

Students must use their Western (@uwo.ca) email addresses when contacting me about administrative matters. Discussions and questions should be posed either in class, immediately after class, in the tutorial or during office hours.

### 3. Course Description

Introduction to the theory and application of regression. My goal is that you will understand the principles of regression and be to apply the methods discussed in class to “live” data. You will be able to appreciate both the strengths and limitations of scientific conclusions obtained using regression analysis.

### 4. Course Materials

Laptop or personal computer with R/RStudio installed is highly recommended. Computers are also available in the Statistics Department Computing Lab (WSC 258).

Lecture notes and links to other online material will be provided on OWL.

Students should check OWL (<http://owl.uwo.ca>) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class. Students are responsible for checking OWL on a regular basis.

### 5. Methods of Evaluation

The overall course grade will be calculated as listed below:

Assignments (2)      20%

Tests/quizzes (7)    35%

Class participation     5%  
Final Exam                40%

The first assignment will be handed out October 6 and due 2 weeks later. The second assignment, November 3 and due 2 weeks later. Both assignments should be prepared using RStudio markdown (HTML or PDF) and upload to your Stats 3859A OWL dropbox before midnight on the due date.

The tutorial quizzes will require a written response. No aids or electronic devices are permitted. These quizzes will be held approximately every two weeks.

Class participation includes attending lectures and tutorials. Responding to questions or asking questions – especially interesting questions that reflect a good understanding. But even simple questions may be very valuable for class discussion and are strongly encouraged. Random attendance checks may be taken.

## **6. Accommodation and Accessibility**

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or supporting documentation to the Academic Counselling Office of your home faculty as soon as possible. If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in WSC 140, and can be contacted at [scibmsac@uwo.ca](mailto:scibmsac@uwo.ca).

For further information, please consult the university's medical illness policy at [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_medical.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf).

If you miss the Final Exam, please contact your faculty's Academic Counselling Office as soon as you are able to do so. They will assess your eligibility to write the Special Exam (the name given by the university to a makeup Final Exam).

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (see [http://www.registrar.uwo.ca/examinations/exam\\_schedule.html](http://www.registrar.uwo.ca/examinations/exam_schedule.html)).

## **7. Academic Policies**

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy, <http://www.uwo.ca/its/identity/activatenonstudent.html>, the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

No electronic devices are permitted on quizzes or the final exam.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at this website: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf).

## **8. Support Services**

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation.

The policy on Accommodation for Students with Disabilities can be found here:  
[www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_disabilities.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_disabilities.pdf)

The policy on Accommodation for Religious Holidays can be found here:  
[http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_religious.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf)

This course is supported by the Science Student Donation Fund. If you are a BSc or BMSc student registered in the Faculty of Science or Schulich School of Medicine and Dentistry, you pay the Science Student Donation Fee. This fee contributes to the Science Student Donation Fund, which is administered by the Science Students' Council (SSC). One or more grants from the Fund have allowed for the purchase of equipment integral to teaching this course. You may opt out of the Fee by the end of September of each academic year by completing paperwork in the Faculty of Science's Academic Counselling Office. For further information on the process of awarding grants from the Fund or how these grants have benefitted undergraduate education in this course, consult the chair of the department or email the Science Students' Council at [ssc@uwo.ca](mailto:ssc@uwo.ca).