

Statistical Computing (Statistics 4864A/9864A)

1. General Course Information

Statistics 4864A/9864A, Statistical Computing

Lectures: MWF 10:30-11:30 PM, WSC 248

Prerequisite Requirements

Enrolled in the graduate program in Statistics at Western and have taken a first course in mathematical statistics using calculus and linear algebra. Good understanding of linear equations and basic mathematics including algebra and geometry. A previous course in computing. Eagerness to learn R/RStudio including markdown/latex for document preparation as well as some other computing topics.

2. Instructor Information

Professor A. I. McLeod, PhD (1978).

WSC Room 235. Email: aimcleod@uwo.ca.

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 afternoon office hours, 3-4pm.

3. Course Description: Statistical Computing with R. Topics from three textbooks will be discussed. These textbooks are freely available online in HTML or PDF.

(i) R for Data Science by Wickham and Grolemund, <http://r4ds.had.co.nz/>

(ii) Text Mining with R, Silge & Robinson, <https://www.tidytextmining.com/>

(iii) Introduction to Data Technologies, Murrell, <https://www.stat.auckland.ac.nz/~paul/ItDT/>

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).

Students should check OWL (<http://owl.uwo.ca>) on a regular basis for news and updates.

5. Methods of Evaluation

The overall course grade will be calculated as listed below:

Project 1 (due 26-10-2018) 50%

6. Accommodation and Accessibility

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid