STATS 2107 Statistical Modelling and Inference II Welcome!

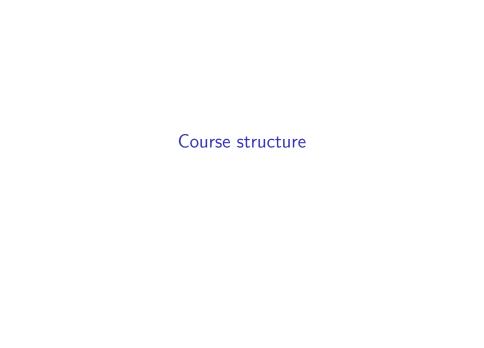
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Semester 2 2022



We acknowledge and pay our respects to the Kaurna people, the traditional custodians whose ancestral lands we gather on. We acknowledge the deep feelings of attachment and relationship of the Kaurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs.



Lectures

- ▶ There aren't "lectures" so to speak.
- ► There will be weekly topic videos
- ▶ Watch these in Echo360 or on the weekly MyUni page

Workshops

- Weekly workshops on WEDNESDAY, 1pm 2pm in Helen Mayo South SG20
- ► Online zoom recording available after

Practicals

Fortnightly practicals (odd weeks):

- ► TUESDAY 4 5, EMG13
- ► FRIDAY 10 11, Ingkarni Wardli 234
- ► FRIDAY 2 3, Online

There will be a quiz associated to each practical.

Tutorials

Fortnightly tutorials (even weeks):

- ► TUESDAY 4 5, Barr Smith South 2032
- FRIDAY 10 11, Horace Lamb 422
- ► FRIDAY 2 3, Online

Assessments

- ▶ Online quizzes: 10%
- ► Assignments: 20%
- ► Theoretical Test: 15%
- ► Practical Test: 15%
- ► Exam: 40%

Quizzes

There are two types of online quizzes this semester:

- ➤ You will have a weekly "theory" quiz. These are questions to do with the weeks lecture materials.
- ➤ You will have a fortnightly "practical" quiz. This is directly based off of the weeks practical.

Quizzes will be available Friday the week before, and due the following Sunday.

Assignments

- Assignment 1 due end of Week 3
- ► Assignment 2 due end of Week 5
- ► Assignment 3 due end of Week 7
- ► Assignment 4 due end of Week 11

Tests

- ► Theoretical Test Week 8
- ► Practical Test Week 12

Exam

▶ More information later in the semester

Reference texts

- ▶ J. A. Rice: Mathematical Statistics and Data Analysis. Third edition (2007).
- D.D. Wackerly, W. Mendelhall and R.L. Scheaffer: Mathematical Statistics with Applications. Seventh edition (2008).

Course overview

The course is has five modules this semester:

- 1. Estimation Theory
- 2. Sampling Distributions
- 3. Linear Models I: Simple and Multiple Linear Regression
- 4. Linear Models II: Model selection, ANOVA, ANCOVA
- Likelihood Theory