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Relation to Other Mathematics Courses

This course is primarily aimed at students intending to pursue a major in a field involving quantitative research (hence knowledge of introductory statistics is essential) but for which higher-level mathematics or statistics is not essential. Maths courses MATH1231, MATH1241, or MATH1251 are pre-requisites for many later year mathematics courses, so if you have an interest in pursuing further study in mathematics or statistics, you should consider whether MATH1041 is the right course for you.

It is possible to study higher-level statistics courses after completing MATH1031 and MATH1041, provided that you received a credit grade in MATH1031. However, if you wish to complete a Major in Statistics, you will be better prepared if you study MATH1131 and MATH1231 (or MATH1141 and MATH1241 Higher Mathematics), as most of our Statistics major students do.

Course Learning Outcomes (CLO)

At the successful completion of this course you (the student) should be able to:

CLO1: Recognise which analysis procedure is appropriate for a given research problem involving one or two variables.

CLO2: Understand principles of study design.

CLO3: Apply probability theory to practical problems.

CLO4: Interpret computer output for a statistical procedure.

CLO5: Calculate confidence intervals and conduct hypothesis tests by hand for small datasets.

CLO6: Understand the usefulness of Statistics in your professional area.

CLO7: Apply statistical procedures on a computer using RStudio/R.

Teaching Strategies Underpinning the Course

New ideas and skills are introduced and demonstrated in lectures, and then students develop these skills by applying them to specific tasks in tutorials, and assessment tasks. Assessment in this course will use problem-solving tasks of a similar form to those practised in class tutorials and Mobius weekly computing lessons

Lectures and classroom tutorials run in weeks 1 to 5 and 7 to 10 unless noted otherwise below. Lectures will be in-person with limited capacity (LEC A)

If your classroom tutorial falls on a public holiday, it will be cancelled for that week. You can optionally attend another online classroom tutorial class for that week only. You can find the times and locations of Classroom tutorials on the central timetable:

The lectures and some parts of classroom tutorials are recorded and you can view these recordings from within ECHO 360 and Blackboard Collaborate respectively. By default, the Blackboard Collaborate recordings list only shows recordings for the past 30 days. Old recordings are still available, but you have to choose to see them.

To find the recordings enter Blackboard Collaborate. In the top left of the window, you will see three horizontal lines. Click on this for a menu and then select "Recordings". Once you are on the recordings page, you can choose another date range by clicking on the drop-down menu to the right of the words "Filter by" near the top right corner of the Blackboard Collaborate recordings list. An image showing where to find these menus is below.

Möbius

Möbius weekly lessons and online assessments in this course use a system called Möbius. Information on how to access and use Möbius is provided on Moodle.

Firefox or Chrome are the recommended browsers for Möbius. Edge, Safari and Internet Explorer have caused problems in the past. No special consideration will be considered for students using a non-recommended browser, except by prior arrangement.

5. Assessment

Assessment Overview

The assessment structure of MATH1041 may be quite different to high school and other courses that you are used to. It is designed so that students should expect to be close to passing the course before taking the final exam with pre-exam assessment focusing on basic skills and the exam focusing on more advanced skills.

- The Möbius Weekly Lessons allow answers to be checked while working on them, they allow unlimited attempts, they are available for an extended period and students can work together, seek help, and use any resources they wish. Most students gain a perfect score in these.
- The two Lab tests are designed to give students feedback on progress and mastery of the course, under exam conditions and to evaluate progress towards the stated learning outcomes.
- Marks less than 80% on Lab Marks less than

Lab Test dates, see

Schedule of All Assessments: Lab Test 1 (respectively Lab Test 2) will be conducted at your EXM time/location in your UNSW timetable in Week 4 (respectively Week 10). For The location of the tests is in an campus computer lab and it will be supervised. For offshore students

Note:

- You will be able to view your final exam timetable once Exams Central has finalised the timetable. Please visit the web page: <https://student.unsw.edu.au/exams> for details.
- If you are unwell / miss your final examination, please refer to the Special Consideration Policy by visiting the website: <https://student.unsw.edu.au/special-consideration>

Schedule of All Assessments

Week	Assignment/lab tests	Weekly Möbius Lessons Due at 3 PM (*)
1		Start work on your first Möbius Weekly Lesson
2		Week 1 Möbius Weekly Lesson due Tuesday
3		Week 2 Möbius Weekly Lesson due Tuesday
4	MATH1041 Lab Test 1 (EXM timeslot/location in your UNSW Timetable)	Week 3 Möbius Weekly Lesson due Tuesday
5		Week 4 Möbius Weekly Lesson due Tuesday
6	Flexibility Week	
7		Week 5 Möbius Weekly Lesson due Tuesday
8		Week 7 Möbius Weekly Lesson due Tuesday
9	Assignment due Friday 23:59 PM (submit through Turnitin on Moodle)	Week 8 Möbius Weekly Lesson due Tuesday
10	MATH1041 Lab Test 2 (EXM timeslot/location in your UNSW Timetable)	Week 8 Möbius Weekly Lesson due Tuesday Week 9 Möbius Weekly Lesson 9 due Sunday(**)

Monday to Thursday: Study bre243.6 0 Tf1 0 0 1 87.62 bre243

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7. Course Schedule, Evaluation and Development

Course Evaluation and Development

The School of Mathematics and Statistics evaluates each course each time it is offered. We carefully consider your responses and their applications for course development.

Course Content

Four general topics are covered in MATH1041:

Study Design: some key ideas to consider when collecting data.

