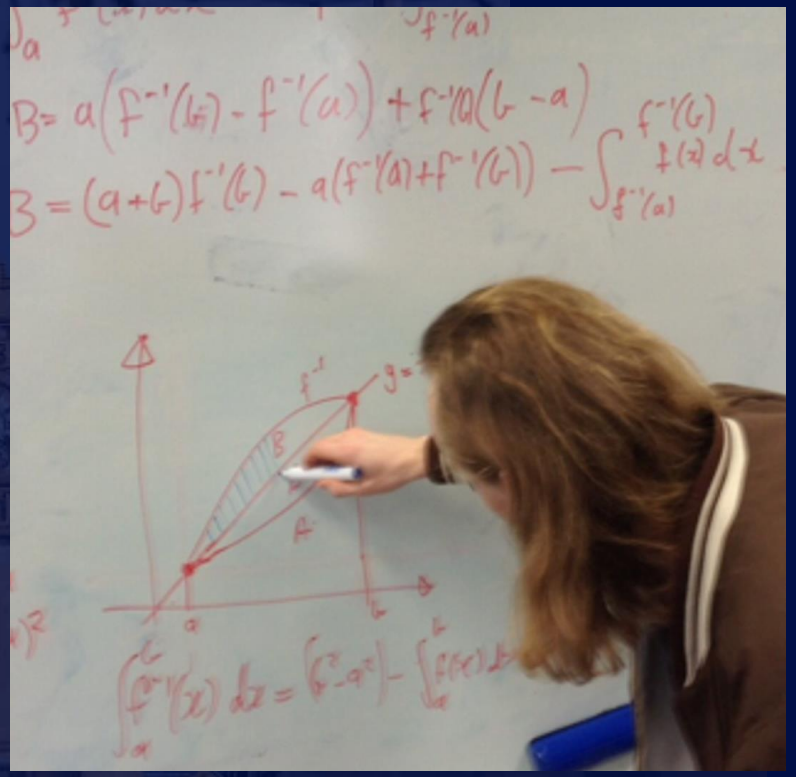
# Getting ready for first-year mathematics and statistics

## Semester 2, 2024



**Anthony Morphett**
School of Mathematics and Statistics

# First year maths & stats subjects – semester 2

MAST10005 Calculus 1

MAST10006 Calculus 2

MAST10007 Linear Algebra

MAST10010 Data Analysis

MAST10009 Accelerated Mathematics 2 and
MAST10021 Calculus 2: Advanced – not covered here

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# How do first year maths & stats subjects work?

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Calculus 1 has: 3 lectures 1 tutorial 1 workshop class /week

Calculus 2 has: 3 lectures 1 tutorial /week

Linear Algebra has: 3 lectures 1 tutorial 1 computer lab class /week

Data Analysis 1 has: 3 lectures 1 integrated tutorial/computer lab class (2hrs) /week

Plus: weekly practice exercises, regular assignments

Expect to spend about 12 hours/week on each subject on average (including class time)

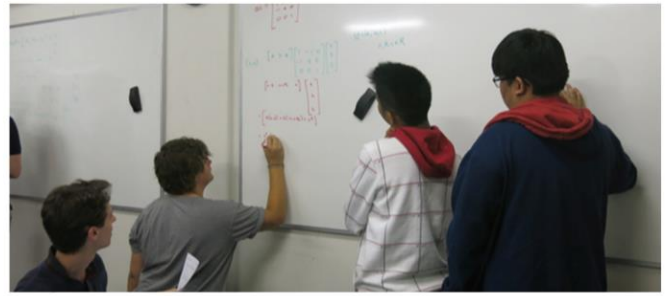
# Lectures

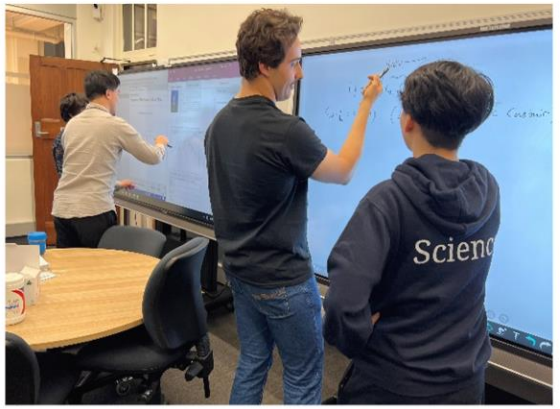
- Lectures are in-person
- The lecturer will usually work through the lecture slides
  a combination of theory and worked examples
- Might also include polls, discussions, activities, etc
- Lecture recordings are available as an aid for study
  (but are NOT a replacement for attending in person)

# Tutorials

- You'll work in groups on problems, and write your answers on whiteboards
- A chance to work on the maths yourself
- A very important and valuable part of the learning
- You'll get help and feedback from your tutor as well as from your groupmates
- Great chance to meet other students
- Also called practice classes or practical classes

Workshops (Calculus 1) are similar
but more focussed on practicing mathematical skills.

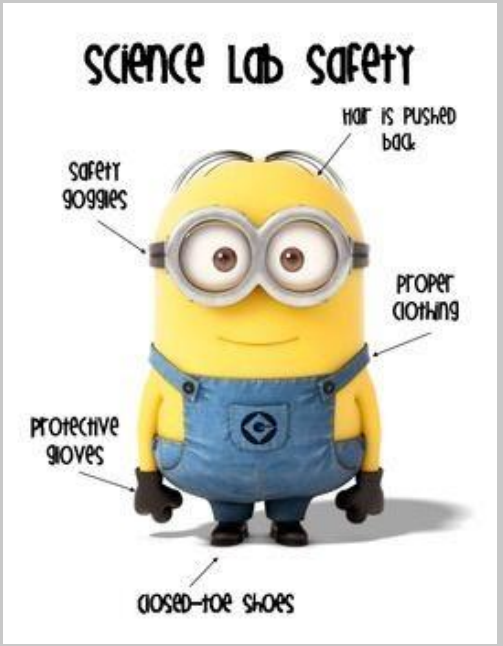




# Computer lab classes

Learn to use mathematical software to help with calculations and to explore mathematical concepts.

Computer labs in Linear Algebra use MATLAB.



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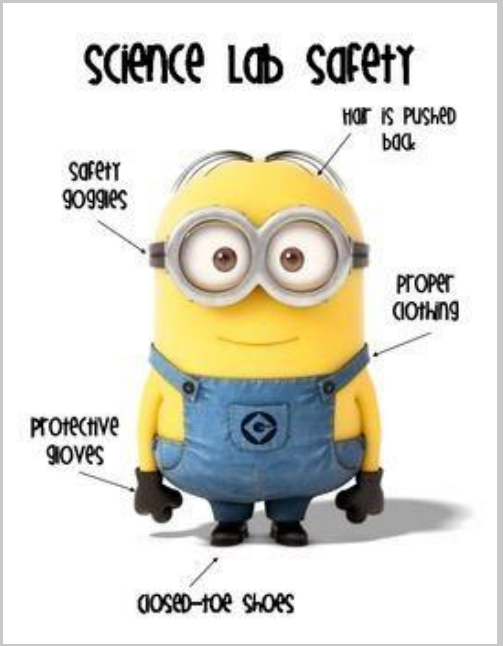

# When do classes start?

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| Subject | Lectures | Tutorials | Computer labs | Workshops |
|---|---|---|---|---|
| MAST10005 Calculus 1 | Start in week 1 | Start in week 1 | - | Start in week 1 |
| MAST10006 Calculus 2 | Start in week 1 | Start in week 1 | - | - |
| MAST10007 Linear Algebra | Start in week 1 | Start in week 1 | Start in week 2 | - |
| MAST10010 Data Analysis | Start in week 1 | Start in week 1 | Integrated with tutorials | - |

# What to do before class

- Check out Canvas LMS

  **lms.unimelb.edu.au or google “unimelb lms”**

- Canvas LMS is where you access subject materials, assignments, discussion boards, lecture recordings, and more

- LMS = Learning Management System
- Used by all University subjects (not just maths & stats)

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# What to do before class

- ❑ Get the lecture slides from Canvas LMS
- Bring them to lectures
- You'll need to take notes on them
- ❑ Read the information on Canvas LMS for your subject
- ❑ Do the orientation quiz (Calculus 1, Calculus 2, Linear Algebra)
- ❑ Do I need a calculator?
- No calculators for Calculus 1, Calculus 2, Linear Algebra
- University-approved scientific calculator for Data Analysis 1 – see Canvas LMS

# How can I get help?

**Consultations**

get one-on-one help from the lecturer or a tutor

see your subject's Canvas site for details

no appointment necessary, just turn up!

**Friends and classmates**

After your tutorial

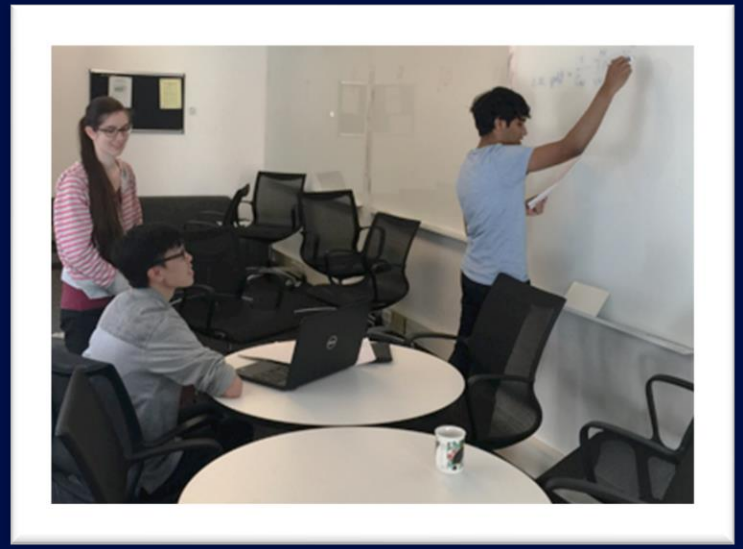
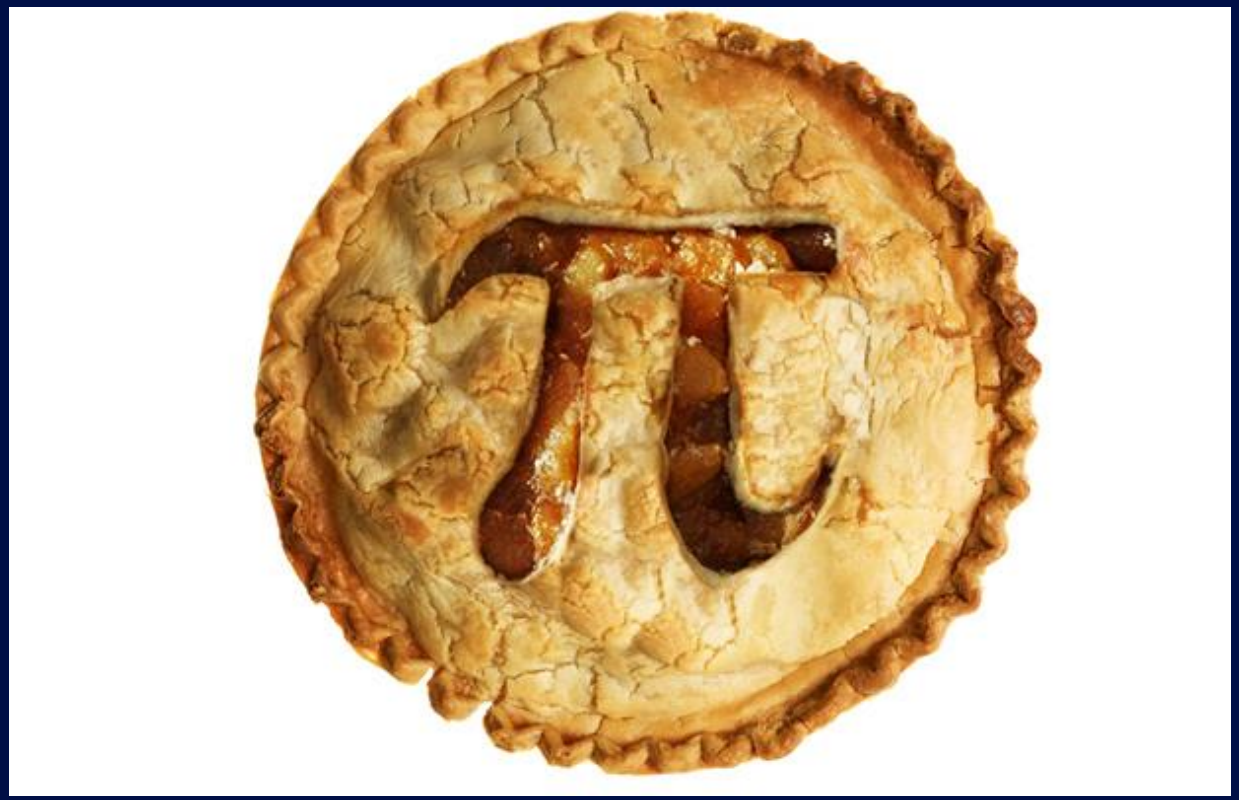
mathSpace

MUMS events

**Online 'Ed' discussion board**

**mathAssist**

- Drop in for help with study skills and background knowledge from school
- 12-2pm each weekday from week 2 onwards
- In person next to mathSpace



# Good luck and have fun!