

MATH1002

linear algebra

LECTURE 1-A.

week 1

part A

(of around 5 or 6 each week)

WELCOME, LOGISTICS, & EXPECTATIONS

Welcome to linear algebra!

The MATH1002 team

- me (Emily Cliff)
 - born in the UK, grew up in Canada, PhD in the UK, worked in UK/US, moved to Australia in 2019
 - research interests: algebra & geometry
- Dmitry Badziahin
 - from Belarus, PhD in the UK, worked in the UK for 9 years, moved to Australia in 2017
 - research interests: number theory
- Brad Roberts
 - born in Sydney, PhD at the University of Sydney
 - research interests: semigroup theory.
- your tutors
 - assigned in Week 1.

- Do you have any questions for us?

You can ask us and introduce yourself on Ed.

(We'll set up an introductions thread next week after tutorial assignments have been made.)

Learning in MATH1002

- Lectures (pre-recorded)
- Tutorials (live; online or in person)
- Ed Discussion
- Consultation hours (Zoom)
- Independent study, study groups

Assessment in MATH1002

- 2 Assignments
 - 10 Webwork Quizzes
 - 1 Midsemester Quiz
 - 1 Final exam
- ↳ See unit of study outline for dates and marks.
Watch Ed for instructions.

Lectures

- Lectures will be recorded and posted on Canvas, just like this.
- Instead of two long boring 50 minute lectures, the same amount of material will be divided into chunks by topic.
- Lectures for week n will be posted by Friday of week $n-1$, so that you have plenty of time to watch them and post questions on Ed throughout the week.

! Math is hard!

- In a traditional university lecture format, it is common not to understand everything as it is said; even the "best" math students will need to review their notes after each lecture to better digest the material.
- One of the biggest advantages of watching recorded lectures is that you can pause the video as soon as you get lost.
 - Stop and think; review your notes; rewind and rewatch as necessary.
- Exercises: appear in boxes.

Pause your video and work on the exercise before moving on.
- You still won't understand everything, so carry on watching the video and ask for help.
- Notes (full and fill-in) will appear in the weekly modules.

Tutorials

- Weekly in person or on Zoom starting in Week 2.
- Tutorial in week n covers material from week n-1.
- Tutorial sheet and preparatory questions are posted in advance.
- You don't need to work on the tutorial sheet in advance, but you should watch the lectures before tutorial.

Go to tutorials!

It is one of the best resources this course is offering you.

Don't waste it!

For in person tutorials:

Keeping our community safe

We can all help reduce the spread of COVID-19 through following good hygiene practices:

- **Wash hands regularly**, for at least 20 seconds with soap and water, or use an alcohol-based hand rub.
- **Cover your mouth** when **coughing and sneezing** with a tissue or a flexed elbow.
- Maintain a **distance of at least 1.5m** between yourself and others, where possible.
- **Avoid large gatherings**, where possible.
- **Avoid close contact** with anyone **with cold or flu symptoms**, e.g. fever, cough, runny nose or shortness of breath.

Keeping our community safe

- All students and staff who have cold or flu symptoms should **isolate** themselves from others.
- If you are unwell with any symptoms please excuse yourself from this class and **get tested for COVID-19** as soon as possible. We will support you to continue the work remotely.
- Make sure you read the information on **special consideration** in the unit outline.

Keeping our community safe

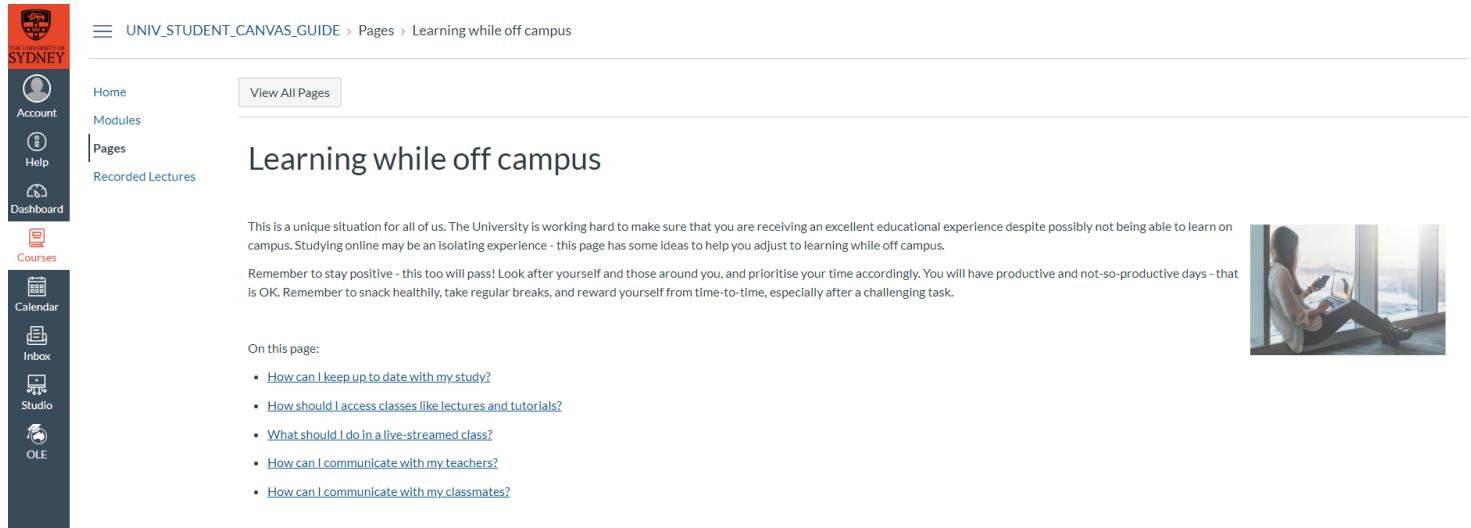
- The University is following advice from the government and related public health authorities.
- For the latest information, see the advice on the University website.
- In some classes, especially those involving use of shared equipment, please follow additional advice from your coordinators.
- Please take care of each other and yourselves and if you need support reach out to your unit coordinator or the health and wellbeing area of the Current Students website.

Tips for students joining online

- Remember that you are still in a space with other students.
- Mute your microphone when not speaking.
- Use earphones or headphones - the mic is better and you'll disturb others less.
- If you have a webcam, please switch it on so we can see you, if you are comfortable doing so.
- Try not to talk over someone else.
- Some classes may use breakout rooms – engaging fully in these is a great way to meet classmates and your teachers.
- Help your teachers know you're there by participating in chat, polls and other activities during class - we're all in this together.

Tips for students learning online

- For tips and guides on learning online and the tools you will use, refer to Learning while off campus resources in Canvas. This is especially useful if it's your first time learning online at university.



The screenshot shows a Canvas page titled "Learning while off campus". The page header includes the University of Sydney logo and navigation links for Home, Modules, Pages (which is the active tab), and Recorded Lectures. Below the header, the title "Learning while off campus" is displayed. The main content area contains text about the unique challenges of online learning and offers tips for staying positive and productive. On the right side, there is a photograph of a student sitting by a window, looking at a laptop screen. A sidebar on the left lists various Canvas tools: Account, Help, Dashboard, Courses, Calendar, Inbox, Studio, and OLE.

UNIV_STUDENT_CANVAS_GUIDE > Pages > Learning while off campus

Home Modules Pages Recorded Lectures

View All Pages

Learning while off campus

This is a unique situation for all of us. The University is working hard to make sure that you are receiving an excellent educational experience despite possibly not being able to learn on campus. Studying online may be an isolating experience - this page has some ideas to help you adjust to learning while off campus.

Remember to stay positive - this too will pass! Look after yourself and those around you, and prioritise your time accordingly. You will have productive and not-so-productive days - that is OK. Remember to snack healthily, take regular breaks, and reward yourself from time-to-time, especially after a challenging task.

On this page:

- [How can I keep up to date with my study?](#)
- [How should I access classes like lectures and tutorials?](#)
- [What should I do in a live-streamed class?](#)
- [How can I communicate with my teachers?](#)
- [How can I communicate with my classmates?](#)

Ed discussion forum

Post and answer questions here.

Exercise: • Log in to Canvas and go to the 1002 page.

- In the menu bar, select Ed Discussion and make sure you can access the course discussion page.
- Back in Canvas, make sure you can locate the Modules page.

(probably you found this lecture there.)

↑ Pause your video and do these three tasks now.

- It is your responsibility to check for announcements regularly:
 - on Ed
 - university email
 - Canvas messages [rare but not never!]
- Please read the instructions on Ed before making posts.

Consultation Hours

This is where I (or another member of the teaching team) sits around in a Zoom room, waiting for you to ask any questions about the lectures, tutorial sheets, etc.

- Suggestion :
- Plan to come to consultation hours even if you don't have any questions.
 - You can use the time to listen to other students' questions or to work on reviewing class material, finishing up tutorial sheets, etc.

Every Thursday 4pm - 5pm on Zoom

- Zoom links will be posted in the Zoom section of Canvas
- We will schedule extra weekly sessions if we find we're running out of time to answer questions.
- Drop in any time, leave when you like, no appointment necessary.