



UNSW
SYDNEY

MATH1131 Mathematics 1A – Algebra

Lecture 0: Introduction to MATH1131

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Slides by Jonathan Kress

2020 Term 1

General information

- MATH1131 is a 6-units-of-credit course offered in terms 1, 2, and 3.
- The pace is very fast. It's very important to keep up to date.
- There are three general topics covered by the course:
 - **Algebra**
Lectures, classroom tutorials, online tutorials.
Linear Algebra will be mostly new to NSW students.
 - **Calculus**
Lectures, classroom tutorials, online tutorials.
This might look familiar but there's lots that's new.
 - **Coding in Maple**
Online tutorials.
Using a computer to solve maths problems is an essential skill.
- These slides and an [introductory video](#) can be found on Moodle.

- The School of Mathematics and Statistics website

www.maths.unsw.edu.au

has lots of useful information on:

- courses.
 - how to get help.
 - school policies (assessment, special consideration etc.).
 - our research.
- Information about the course for this term is on Moodle:

moodle.telt.unsw.edu.au

The Moodle forums are a very good resource for asking questions and collaborating with peers.

- Regularly check your UNSW email, e.g.,
`z1234567@unsw.edu.au`

Use it to communicate with us and always quote your student ID.

Assumed knowledge

- The assumed knowledge for MATH1131 is HSC Mathematics Extension 1 with a combined mark of at least 100/150. (HSC Mathematics students with $> 85/100$ should be OK.)
- Some revision worksheets can be found at:
www.maths.unsw.edu.au/currentstudents/revision-worksheets
- Insufficient preparation? Consider:
 - MATH1011 in term 1 (as a possible elective and co-requisite for PHYS1121).
 - MATH1131 in term 2.
 - MATH1231 in term 3.
- For advice, contact the undergraduate enquiries address:
UG.MathsStats@unsw.edu.au

Classes — see Moodle and myUNSW for details

- Lectures:

Mondays	Tuesdays	Thursdays
Weeks 1–5,7,8,10,11	Weeks 1–5,7–10	Weeks 1–5,7–10
1-2pm: Algebra	5-6pm: Algebra (1,3,5,8)	3-4pm: Algebra
2-3pm: Calculus	5-6pm: Calculus (2,4,7,9,10)	4-5pm: Calculus

- Lecture materials, lecture recordings, etc. can be found on Moodle.
 - Print out the lecture handouts in advance if you wish to annotate/complete them during the lectures.
- Classroom tutorials:
 - One Classroom Tutorial weeks 1–5 and 7–10.
 - See Moodle for a list of suggested problems to prepare before your Classroom Tutorial.
 - Location may change. Check myUNSW before your first tutorial.
- Online Tutorials:
 - Online Tutorial due 1pm each Monday in weeks 2–5 and 7–11.
 - Do not leave your Online Tutorial until Sunday night!

Course pack and textbook

- Download and read the Course Outline from Moodle.
- You can buy the course pack from the UNSW book shop. The course pack is also available for download from Moodle, but it can be very useful to have a physical copy. It includes:
 - Algebra notes — complete course notes and tutorial problems.
 - Calculus notes — complete course notes and tutorial problems.
 - First-year Maple notes — complete notes for Maple coding.
 - Past exams with solutions.
- A second-hand physical course pack is fine if you obtain the latest course outline from Moodle.
- The calculus textbook (Salle, Hille and Etgen) is not essential. Wait a couple of week to decide whether you want this.

Assessment

Details are on Moodle

- Online Tutorials (10%)
 - Weekly Online Tutorials due 1pm Monday.
- Lab Tests in weeks 5 and 9 (15% + 15%)
 - Your Lab Test times are shown as "Other" in your timetable.
- Assignment (10%)
 - Must be typed and will emphasise mathematical writing and arguments over calculations.
 - Released in week 5 / due 5pm Friday of week 7.
- Final exam (50%)
 - The final exam is much tougher than the pre-exam assessment. You should aim for at least 40/50 in the pre-exam work. Do not expect to make up for lost marks in the exam.

Special consideration

- If you miss an assessment due to illness or misadventure you must apply for special consideration through myUNSW within 3 days.
- You must provide suitable documentation (e.g. a medical certificate) and have it verified at Student Central.
- Weekly Online Tutorials are already very flexible and special consideration for these is usually not granted.
- Supplementary exams will be held during the break between terms.
- For details see:
 - The course outline.
 - student.unsw.edu.au/special-consideration
 - maths.unsw.edu.au/currentstudents/special-consideration-illness-misadventure

Getting help

Seek help as soon as you need it!

- Help with course work:
 - Maths Drop-in Centre
 - Staff consultation
 - Moodle forums
 - Lab consultants
- Administrative and academic advice
 - UG.MathsStats@unsw.edu.au
 - Director of First Year: A/Prof Jonathan Kress, RC-3073
 - Student Services: Ms Markie Lugton, RC-3072
- Counselling Services: student.unsw.edu.au/counselling