



Course Outline

MATH1011

Fundamentals of Mathematics B

School of Mathematics and Statistics

Faculty of Science

Term 1, 2022

Contents

1. Staff	2
2. Administrative matters	3
Contacting the Student Services Office.....	3
3. Course information.....	3
Course summary	4
Course aims.....	4
Course learning outcomes (CLO).....	4
4. Learning and teaching activities.....	4
Lecture Videos and Classroom Tutorials	4
UNSW Moodle	5
Computing	5
5.	

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Course Authority	Dr Dominic Vella	d.vella@unsw.edu.au	
Lecturer-in-charge of NUMBAS	Dr Sean Gardiner	sean.gardiner@unsw.edu.au	RC-5108
Tutors	Dr Dominic Vella Ms Karen Man		

Teaching times and locations: see the link on the central timetable pages:

<http://timetable.unsw.edu.au/2022/MATH1011.html#S1S>

Course summary

MATH1011 will provide you with an in-depth knowledge of topics in Calculus and Linear Algebra and show applications in interdisciplinary contexts through lectures and exercises. It will enhance your skills in analytical thinking and problem solving through illustrative examples in lectures and problem-based tutorials. The course will also engage you in independent and reflective learning through your independent mastery of tutorial problems and Maple. The mathematical skills that you will develop are generic problem-solving skills, based on logical arguments that can be applied in multidisciplinary work. You will be encouraged to develop your communication skills through active participation in tutorials, and by writing clear, logical arguments when solving problems.

Course aims

The aim of MATH1011 is that, by the time you finish the course, you should understand the concepts and techniques covered by the syllabus and have developed skills6.1 (ur)-1.3 ()0.6 (c91 ())TCn5 (o)6.1 (p)6.1 you 826 0a (C)É

Students in MATH1011 are enrolled in two tutorials per week, one for calculus and one for algebra. The calculus tutorial is timetabled for the first half of the week and the algebra tutorial is in the second half of the week. Attendance is compulsory for all tutorials; a roll will be called at face-to-face tutorial classes and is automatically recorded for online tutorials.

Students can change their tutorials via myUNSW until the end of Week 1. After that time, they can only change tutorials by requesting this through the ug.MathsStats@unsw.edu.au website, providing your student ID number and advice about a timetable clash or work commitments. A tutorial problem schedule is provided on Moodle.

UNSW Moodle

The School of Mathematics and Statistics uses the Learning Management System called Moodle. To log into Moodle, use your zID and zPass at the following URL:

<http://moodle.telt.unsw.edu.au>

Once logged in, you should see a link to MATH1011 that will take you to the homepage in Moodle. Here you will find announcements, general information, notes, lecture slides, access to S

Schedule of all assessments

Weekly Numbas Lessons have weekly deadlines on Tuesday 5pm (local Sydney time) of the week following the Lessons.

For example, the Week 1 Numbas Lessons are due by Tuesday 5pm of Week 2.

The table below gives the schedule all assessments.

Week	Assignment & Lab Tests	Weekly Numbas Lessons	Due Date (local Sydney time)
44	10.	10.	10.

Students in courses run by the School of Mathematics and Statistics should be aware of the School and Course policies by reading the

- f* be aware of plagiarism, copyright, UNSW Student Code of Conduct and Acceptable Use of UNSW ICT Resources Policy
- f* be aware of the standards of behaviour expected of everyone in the UNSW community
- f* locate services and information about UNSW and UNSW Library

Some of these areas will be familiar to you, others will be new. Gaining a solid understanding of all the related aspects of ELISE will help you make the most of your studies at UNSW.

The ELISE training webpages:

<https://subjectguides.library.unsw.edu.au/elise/aboutelise>

Equitable Learning Services (ELS)

If you suffer from a chronic or ongoing illness that has, or is likely to, put you at a serious disadvantage, then you should contact the Equitable Learning Services (previously known as SEADU) who provide confidential support and advice.

They assist students:

- x living with disabilities
- x with long- or short-term health concerns and/or mental health issues
- x who are primary carers
- x from low SES backgrounds
- x of diverse genders, sexes and sexualities
- x from refugee and refugee-like backgrounds
- x from rural and remote backgrounds
- x who are the first in their family to undertake a bachelor-level degree.

Their web site is: <https://student.unsw.edu.au/els/services>

Equitable Learning Services (ELS) may determine that your condition requires special arrangements for assessment tasks. Once the School has been notified of these, we will make every effort to meet the arrangements specified by ELS.

Additionally, if you have suffered significant misadventure that affects your ability to complete the course, please contact your Lecturer-in-charge in the first instance.

Academic Skills Support and the Learning Centre

The Learning Centre offers academic support programs to all students at UNSW Australia. We assist students to develop approaches to learning that will enable them to succeed in their academic study. For further information on these programs please go to:

<http://www.lc.unsw.edu.au/services-programs>

7. Applications for Special Consideration

Please adhere to the Special Consideration Policy and Procedures provided on the web page below when applying for special consideration.

What sort of computer or application do I need?

The School of Mathematics and Statistics provides computing labs with everything you will need for computing in MATH1011 (see below).

You can access material on Moodle, the testing environment Maple TA and the School's website from almost any web browser anywhere. You can also use Maple on your own computer via the myAccess service:

<https://myaccess.unsw.edu.au>

What will I have to do and when?

Each Weekly Numbas Lesson contains one Maple question. There will also be at least one Maple sub-question in the End of Term Exam. The Maple questions in the Weekly Numbas Lessons will prepare you for any questions in the End of Term Exam that involve Maple.

Getting started with computing in MATH1011

The MATH1011 module in UNSW Moodle has several short instructional videos illustrating how to access and use all the computing related components of MATH1011.

You should use some of your free time in Week 1 to complete Maple introductory materials, available on Moodle0.6 (i)1.4 (r

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