

Information Sheet for Mathematics 1A Part 1 - MATH187

Autumn Session 2006
Loftus Education Centre (LEC)

Subject Coordinator: Maureen Edwards (Room 15.128)
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Consultation: Monday 12.30-14.30
Wednesday 11.30-13.30

School Loftus Coordinator: Annette Worthy (Room 15.145)
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Phone: (02) 4221 3838
Consultation: Monday 10.30-11.30 (LEC.G02)
Wednesday 15.30-16.30 (LEC.G02)

Subject Prerequisites:

Band 4 or higher in NSW HSC Mathematics, or
Band 2 or higher in NSW HSC Mathematics Extension 1, or
Any band in NSW HSC Mathematics Extension 2, or
80 or higher in MATH151

Assumed Knowledge:

Mastery of NSW HSC Mathematics

MATH187 will not be counted with MATH101, MATH110, MATH141, MATH143, MATH144 or MATH161

This information sheet must be read in conjunction with the general information on educational issues and student matters provided in the document "Policies and Services of the University, Faculty and School" published by the School of Mathematics and Applied Statistics. A copy may be obtained from the subject coordinator or at <http://www.math.uow.edu.au/current/generic.html>.

Topics & Lecturers

Differentiation:	Weeks 1-7
Polar Coordinates:	Week 8
Integration:	Weeks 9-13
Algebra:	Weeks 1-7
Vector Geometry:	Weeks 8-13

Lecturer: Dr Anna Milan
Email: amilan@uow.edu.au
Consultation: 16:30 – 17:30 Monday (LEC.104)

Textbook & Reference Books

Text:

Notes for Mathematics 1A, Part 1, MATH187, 2006

This book contains notes on the course and problems which are likely to be set for assignments and is available at the Loftus TAFE Bookshop.

References:

Anton, H., *Calculus with Analytic Geometry* – John Wiley & Sons.

Thomas, G. and Finney, R., *Calculus and Analytic Geometry* – Addison Wesley.

Barry, S. and Davis, S., *Essential Mathematical Skills for engineering, science and applied mathematics* – UNSW Press.

You are not required to purchase reference books. Several copies of all these books are available in the Library. These readings are recommended only and are not intended to be an exhaustive list. You are encouraged to use the Library catalogue and databases to locate additional readings with similar titles and contents.

Notices

MATH187 has a Web site which will be available from the beginning of Week 2. You can find it by going to:

<http://www.math.uow.edu.au/handouts/m187.shtml>

The site will be updated on a regular basis. Tutorial solutions and other handouts will be posted at this site during the

session—most files will be in pdf format for downloading (see web site for details on software for reading these files). *You should also visit this site on a regular basis.*

Subject Learning Outcomes

After successful completion of this subject, students should

- have a basic knowledge of the principles and techniques required in courses given in later years in Mathematics and other disciplines,
- possess problem solving skills and the ability to analyse the final results,
- understand general mathematical principles which should lead to an ability to think logically and analytically.

Lectures & Tutorials

Lectures for MATH187 are

Tuesdays	17.30 – 19.30 pm	Room LEC.104
Thursdays	16.30 – 17.30pm	Room LEC.104
	18.30 – 19.30pm	Room LEC.104

You are required to attend *all lectures* in MATH187. A sign-on sheet will be circulated in a number of lectures throughout the session to monitor attendance. Experience has shown that poor attendance at lectures leads to poor performance in this subject.

Tutorials in MATH187 will commence in Week 2.

Note: The tutorial in week 1 will be replaced by a lecture.

You **must** attend the tutorial at the time as listed.

The tutorial for MATH187 is at:

Thursday 17:30 – 18:30pm LEC.104

Attendance at the tutorials is **compulsory**. A record of tutorial attendance and your performance at those tutorials will be kept and may be taken into account in determining your final grade if you are on a borderline. You will not be counted as having attended a tutorial merely because you are physically present; your tutor must also judge that your participation has been satisfactory.

Optional Tutorial Assistance

Optional tutorial assistance, and separate from the compulsory tutorial classes, will be available on Tuesday 16.30 – 17.30 in LEC.104.

The purpose of this assistance is to give additional personal assistance with problems and lecture material. If there are parts of the lectures, or problems done in tutorials, which you don't understand, then you may come to the Tutorial Assistance times and ask about them.

Note: *The optional tutorials are not a substitute for the compulsory tutorials.*

Assessment

Your final mark in MATH187 will be determined as follows*:

Assignments	–	10%
Mid-Session Test	–	20%
Final Exam	–	70%

Total – 100%

*Attendance at tutorial classes and lectures may be taken into account.

Scaling of marks is **not** a standard procedure in this subject.

Note that you are not required to “pass” each individual component to receive a Pass grade in MATH187. However, you would seriously jeopardize your chances of passing this subject if you do not aim to be successful in every component of the assessment.

Calculators

Please note that single-line-display calculators are permitted in examinations for this subject. They must not have alphanumeric keyboards (or capabilities) and they must not be programmable in any way. If you are not sure whether your calculator is acceptable, have it checked well before any exam.

Final Examination

The final examination in MATH187 will be as follows:

Duration:	3 hours and 15 minutes
Value:	70% of final mark.

The examination will be held during the examination period in June, at a time to be advised by the University. As a student enrolled in the University of Wollongong, you are required to be available for the entire examination period in June.

Mid-Session Test

The Mid-Session test for MATH187 will be as follows:

Date:	Saturday 8 April
Time:	9.00-10.30
Location:	Building 20
Duration:	90 minutes
Value:	20% of final mark

If you are unable to attend the test *you should contact the subject coordinator as soon as possible*. Any request for special consideration regarding the test *must be received by the subject coordinator within 7 days of the test*. (Refer to the document “Policies and Services of the University, Faculty and School” for additional details).

Assignments

In the Lecture of Week 1 and in the Tutorial Classes of Weeks 3, 5, 7, 9 & 11, you will be given an assignment. It must be

handed in at your tutorial class in the following week, that is, in weeks 2, 4, 6, 8, 10 and 12 respectively, and you must attend your tutorial class for the assignment to be assessed. Assignments will be marked during the ensuing week and returned one week after submission in tutorials. The six assignments will contribute a **total** of 10% towards your final mark in MATH187.

– Grades:

S for satisfactory

(for a reasonable attempt at a reasonable number of problems)

U for unsatisfactory.

- You must show working for each question on the assignment.
- Untidy or illegible work will not be assessed, and will be graded U.
- Assignments will **not** be accepted outside your regularly scheduled tutorial class or after the due date—unless you are successful in applying for special consideration. (Refer to the document “Policies and Services of the University, Faculty and School” for additional details).
- Assignments **must** be submitted with the assignment cover sheet provided and you should make sure your receipt is initialed.
- Faxed or emailed assignments will not be accepted. You must submit your assignment in person.
- Assignments are only **part** of the expected weekly workload.
- You should keep a copy of all work submitted.

Every assignment submitted will contribute towards your final assessment. *However, the primary purpose of each assignment is to give you feedback on your progress and understanding of the work.*

Exercises & Tutorial Sheets

Exercises are included in NOTES FOR MATHEMATICS 1A, Part 1, 2005. Also, a weekly Tutorial Sheet will be given out in each tutorial for you to attempt during the tutorial. At the bottom of this sheet, there is a section which tells you the exercise sets (in the NOTES) related to the current lecture material. It is expected that *you will attempt, in your own time, at least all the problems listed each week on the appropriate Tutorial Sheet*. Solutions to the Tutorial Sheet problems will be placed on the MATH187 Web site each Friday.

Cheating and Plagiarism

The University does not tolerate cheating nor plagiarism and regards them very seriously. For more information, see the document “Policies and Services of the University, Faculty and School” and the section in the University Undergraduate Handbook entitled “Acknowledgement Practice/Plagiarism”, or visit

<http://www.uow.edu.au/handbook/courserules/plagiarism.html>

Consultation

If you are having difficulty with MATH187, you are encouraged to seek advice from your Lecturers or the Subject Coordinator (most tutors are casual staff and therefore are not available for consultation). For administrative matters, you should see the Subject Coordinator.

If you cannot come at the listed consultation times, contact the Subject Coordinator to arrange an appointment at a mutually convenient time.