

University of Wollongong
School of Mathematics and Applied Statistics

Information Sheet for
Mathematics 1A Part 1 - MATH187

Autumn Session 2008
Wollongong Campus

Subject Coordinator: Dr Maureen Edwards (Room 15.128)

Contacts: maureen@uow.edu.au or (02) 4221 4768

Consultation: Monday 10:30-12:30

Wednesday 10:30-12:30

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/subjects/generic.shtml>.

Topic Outline & Lecturers

Differentiation: Weeks 1-7

Polar Coordinates: Week 8

Integration: Weeks 9-13

Lecturer: Dr Maureen Edwards (Rm 15.128)

Algebra: Weeks 1-7

Lecturer: Dr James McCoy (Rm 15.G28)

Phone: (02) 4221 5189

Email: jamesm@uow.edu.au

Consultation: Monday 15:30-16:30

Wednesday 11:30-12:30

Vector Geometry: Weeks 7-13

Lecturer: Dr Grant Cox (Rm 15.236)

Phone: (02) 4221 4304

Email: gcox@uow.edu.au

Consultation: Monday 9:00-11:00

Wednesday 12:30-14:30

Textbook & Reference Books

Text: Notes for Mathematics 1A, Part 1, MATH187, 2008.

This book contains notes on the course and problems which are likely to be set for assignments and is available for a cost of \$TBA at the UniCentre 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 an eLearning site which can be accessed via SOLS. Tutorial solutions and other handouts will be posted at

this site during the session. Most files will be in pdf format for downloading. *You should visit this site on a regular basis.*

Subject Learning Outcomes

After successful completion of this subject, students should

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

Lectures & Tutorials

Lectures for MATH187 are

Mondays 13:30-15:30 67.107

Wednesdays 8:30-10:30 14.G01

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.

Tutorial enrolment will be available online via SOLS during the first week of session. The following are the available times you will be able to log onto and enroll in a tutorial session. **Note:** only one tutorial time is to be selected per student.

Close: 19:00 Friday 29 February

Tutorials in MATH187 will begin in Week 2.

A schedule of class lists will be displayed outside room 15.107 on Monday of Week 2. If you have not chosen a class you will automatically be allocated to a tutorial group. If you have compelling reasons to change your tutorial after the cut-off date, you may put in a written request via **email** to Anne Harper (harper@uow.edu.au) stating your reasons and including a copy of your timetable. Such requests may be made in **Week 2 only** and changes will be made where class sizes allow.

Attendance at assigned 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.

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 19 April 2008
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.

Unavoidable changes to assignment due dates will be published on the MATH187 eLearning site.

– 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.*

If you wish to seek special consideration for a late assignment (because you missed a tutorial), you must apply for special consideration via SOLS, submit your documentation to the University Administration and then you should obtain a Special Consideration Form from the School Admin Assistant (Room 15.110). Submit the assignment with the completed form to the Admin Assistant as early as possible. In any case, assignments submitted more than 7 days after the original due date will not be accepted and other arrangements may be necessary. In this instance, contact the subject coordinator immediately.

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

**If you are having any difficulty with MATH187,
you should seek advice before it is too late.**