General Information Sheet M1020 S1 2009

Textbooks:


These have been placed on closed reserve in the Mathematics and Physical Sciences Library.

Objectives: Students will be expected to develop skills in mathematical and statistical manipulations and techniques and to develop an understanding of the role and use of mathematics for modeling real world phenomena. Also students will learn how to present results in a logical and coherent fashion. Elementary proofs will be presented. These skills will be enhanced in workshops and lab sessions and assessed in the tests and the exam.

Lecturers: Professor Lyle Noakes (lyle@maths.uwa.edu.au), Dr Tomasz Popiel (popiel@maths.uwa.edu.au), (Calculus); Associate Professor Valery Stefanov (stefanov@maths.uwa.edu.au), Dr Robin Milne (milne@maths.uwa.edu.au), (Probability and Stats).

Lyle Noakes is organising the calculus component, and Valery Stefanov has responsibility for the probability and statistics component. Lyle Noakes is the unit coordinator.

The Web Site is: https://www.maths.uwa.edu.au/Units/math1020-s1-2009-crawley/view. All important information concerning the course, including announcements, worksheets and solutions etc. will be recorded here. A general 'Information Guide for First Year Students' is available on the Undergraduate area of the website https://www.maths.uwa.edu.au/students/undergraduate/index_html.

Lectures and Workshops:

There are three teaching streams in Mathematics 1020. Each student is allocated either to Stream 1 (the first 8 am stream), to Stream 2 (the 9 am stream) or to Stream 3 (the second 8 am stream) at the beginning of the semester. The three streams cover the same material, but the treatment and timing may be different.

In the timetable, streams 1, 2, 3 are indicated in parentheses: (01), (02), (03). Generally there are 4 lectures per week held on Monday and Tuesday (Calculus), Thursday and Friday (Prob and Stats), and there is a workshop held on Wednesdays. Exceptions are week 1 (where the Wednesday workshop is replaced by a Calculus lecture), and near the end of term where almost all lectures will be in Calculus. Modifications will occur, for instance as a result of tests (replacing workshops) and university holidays.

Attendance at lectures and workshops is compulsory. The workshops will usually alternate between Calculus (generally even weeks, commencing week 2) and Probability and Stats (generally odd weeks commencing week 3). During the workshops there will be worksheets to work on and discuss with staff. Staff may also discuss topics of general interest with the whole workgroup.

Lecture Notes:

Calculus lecture notes will appear on the web under "lecture materials", normally on the Friday after lectures are given. Lectopia and WebCT are not used in M1020.
Worksheets:
Worksheets will be placed on the website at least a week before the worksheet is due. The 'due date' will be indicated on these worksheets. Solutions will be placed on the Web on the Monday after the due date. Students' attempts will not be marked but can be discussed with lecturers and teaching assistants in the workshops. There will be no marked assignments.

Calculus Workshop Notes:
Proofs of theorems for the calculus part of M1020, will be given in the Calculus Workshop Notes, which will appear on the web in step with the Calculus Lecture Notes. Students may ask questions about the Workshop Notes during Workshops. Material in the Calculus Workshop Notes counts for at least 6% of the total assessment in M1020, as described in Assessment below. Students hoping to gain high marks in M1020 should understand the Calculus Workshop Notes and consult with staff as necessary during workshops.

Computer Laboratory Times:
The Mathematics Computer Laboratory (MCL) is reserved for M1020 use on Mondays (1 pm), Tuesdays (3 pm), Wednesdays (1 pm) and Thursdays (1 pm) from week 2. These times may be used for private study or for M1020 purposes, as necessary. To have use of the computers in the MCL you will need to register for an account. To register go to the MCL and follow the instructions on the green sheet `Getting Started in the MCL'. Allocations to labs are made at the Online Class Registration website: follow the instructions. If you do not enter your preferences you will be allocated a lab automatically. Students can apply for afterhours access to MCL.

MathXL is an on-line tutorial and assessment system which generates problems and provides tutorial help. From week 4 onwards, MathXL will be used as part of continuous assessment in Calculus, contributing up to 5% towards your final grade. Assistance in the use of this package will be provided in week 3 (more later).

Mathematics Learning Centre: The Mathematics Learning Centre (MLC) is in Room G.01 on the ground floor of the mathematics building. Assistance for students is normally available from the MLC Monday - Thursday 2-5pm, and Friday 9-12noon, starting in week 2.

Assessment: MathXL, Tests, Exam:

- **Exam 50%**: the final 3 hour exam contributes 50% of the final grade (28% Calculus, 22% Probability and Statistics). Of the 28% for Calculus in the Exam, at least 6% will be for understanding theoretical questions based on the Calculus Workshop Notes. No supplementary exams are available in this unit.
- **Tests 45%**: there will be 4 written tests (or mini-exams) for assessment which contribute 45% of the final mark: Wednesday 18 March (a calculus test worth 9% of the final grade, Wednesday 22 April (a probability and stats test worth 18% of the final grade), Wednesday 6 May (a calculus test worth 9% of the final grade), and Wednesday 20 May (a calculus test worth 9% of the final grade). These tests will be held during normal workshop times. Non-attendance at a test results in a mark of 0.
- **MathXL assessment 5%** (calculus): quizzes starting in week 4.

In order to pass in M1020, students are expected to achieve at least 50% overall, and at least 40% in both the calculus component and the probability and stats components. Final marks will be scaled and
appeals against assessment will be considered only in light of faculty policy and university policy. University policy on special consideration is that applications for consideration, deferral of tests or exams or extensions of time for assignments on medical, personal or other grounds must be lodged with the faculty office no later than three working days after the due date in question.

**Email:**  Students should link their student email addresses to the email addresses they normally use. Important messages may be sent to the mailing list for M1020 and this list will use student addresses.

**Mobile phones:**  The Faculty policy is ”Where possible, contact with students should be by email to their student number address. Copies of these communications should be kept for later review if needed. This means that students should be aware that replies from lecturers may not go to their mobile phones even if they ask. Students have to check their university email one way or the other.”

**Plagiarism etc:**  The Faculty policy on plagiarism can be viewed at http://www.ecm.uwa.edu.au/studentnet/exams/dishonesty
To view The Charter of Student Rights see www.secretariat.uwa.edu.au/home/policies/charter

**Calculators:**  Only calculators with an Approved sticker are permitted in tests and examinations in M1020. If your calculator does not have an Approved sticker you may be able to obtain one from the Mathematics Enquiries desk.

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Lyle Noakes, Page last updated February 21, 2009