University of Glasgow

Department of Mathematics

Course 1T 2007–2008

Information for students

1. **Purpose of the Course**

   Mathematics–1T is a level-1 course, worth 20 credits, taking place in the second semester of the session. Students taking the course should have a pass in SCE Higher Mathematics, or any equivalent qualification, and should normally have taken Mathematics–1R (or exceptionally, Mathematics–1X) during the first semester. Mathematics–1T is intended to provide a half-year of useful mathematical education leading on from the mathematics taught in Mathematics–1R. It is designed to cater for all students who are qualified to take the course, and especially those whose primary interest lies in the application of mathematics to other subjects. Note, however, that **Mathematics–1S is the course which should be taken at this stage by all students who wish to keep open the possibility of studying Mathematics to Honours level** (whether as a Single Honours subject, or as part of a Combined Honours Degree combination involving Mathematics).

   Whilst it is possible to take the level-2 Mathematics modules which are required for entry to the Honours courses in the mathematical area as a follow-on from Mathematics–1T, it is suggested that students who are considering these courses should opt for Mathematics–1S at this stage.

2. **Head of Course**

   The Head of the Course is Dr D.J. Moore (Room 332, Mathematics Building). Questions of a general or administrative nature about the course should be addressed to him or, if he is unavailable, to Dr D.B. Webber (Room 313, Mathematics Building).

3. **Work and Organisation of the Class**

   Sections of the class will meet daily (Monday to Friday) at 10 a.m. and 11 a.m., starting on Monday, 21st January. In a typical week there will be Algebra lectures, Calculus lectures and a tutorial. In some weeks, there will also be a workshop. Please see the timetable for details of these arrangements.

4. **Tutorials**

   Once the final composition of the class is known, detailed arrangements for the tutorials will be announced to the class. The first tutorials will take place during the week beginning 28th January (week 16).

   Students will be asked to prepare written work for discussion at tutorials and frequently will be asked to hand in written work for marking by tutors in advance of the tutorials.

   It is important that students realise that they are free to raise any mathematical questions they wish at tutorials, and are not confined solely to those questions formally set by lecturers. Students, in their own interests, should try as wide a range of problems as they can and should ask tutors about any difficulties that arise either in problems or in the lecture notes.

   Students who wish to seek extra help beside that available at tutorials are encouraged to call on their lecturers at their offices. Lecturers will announce to the class the 'Office Hours' when they will be available for this purpose. Students can also make use of **Mathsbase**.

5. **Mathsbase**

   This is a drop-in facility manned by staff and students for your benefit. You can attend Mathsbase whenever it is open and get help with any topics from level-1 Mathematics. In particular, if you are having difficulty with the Skills Test, help will be available from Mathsbase. Mathsbase is open on several occasions each week. See the notice boards in the Mathematics Building for details.

6. **Recommended Textbook**

   David J. Moore, *Calculus: A First Course* (3rd edition) published by Moodiesburn Press.

   This is a compulsory purchase for Mathematics–1T students.

7. **Workshops**

   There will be 5 workshops during the class hours on Fridays in weeks 17, 19, 21, 23 and 25. It is vital that students take these workshops seriously and gain as many marks as possible from them, in order to boost their continuous assessment marks.

   Worksheets will be handed out several days in advance of the workshops for students to attempt. At the workshops, students will be offered help and will be able to consult one another.

   The final few minutes of the workshop will consist of an attempt by students under examination conditions at previously unseen problems which will often be similar to those on the worksheets.

8. **Credits**

   To obtain the credits for Mathematics–1T a student is required to sign the attendance sheet on at least 70% of the occasions on which the attendance is checked, to hand in work for marking on at least 50% of the occasions on which such work is set and to attend and participate satisfactorily in at least 50% of tutorials.

   Students must also attend all the Workshops, or provide a satisfactory written explanation for absence, as described below.

   It should be stressed that the above are the *minimum requirements* for the award of credits for the class. You are **strongly recommended to attend all lectures and tutorials**, since what you will learn through attending is designed to improve your understanding of the subject.

   Note: (a) It should be carefully noted that the intention is to be very strict about the above requirements. **Any student who, without satisfactory explanation, fails to achieve any of the requirements listed above will not gain the credits for the Course**.

   (b) Each student is responsible for ensuring that his or her own attendance is recorded at tutorials.

9. **Degree Examination**

   There will be one paper, for which 2 hours will be allowed, in the examination period in May. Detailed arrangements for this Examination will be announced once they are known. There will be a resit of the Degree Examination in August/September.

   It should be noted that the format of the Degree Examination is different this year to that in previous years. This year, all the questions will be compulsory, whereas in previous years there has been some choice allowed.

10. **Grades**

    Students awarded the 20 credits for Mathematics–1T will be awarded a grade (either A, B, C, D, E, F, G or H) at the Examiners' Meeting. In awarding such grades, the Examiners will consider students' scores out of 100 calculated as follows:

    a mark out of 60 based on the Degree Examination mark;

    a mark out of 40 based on the 4 best workshop marks.

    Although the precise requirements will be set by the Examiners, it is expected that a mark of approximately 50 out of 100 will be required for the award of grade D or better.

    It should be noted that normally the grade points associated with grades A, B and C at the resit examination will be capped at 10.

    It should further be noted that a grade poorer than D does not count towards entitlement to progress to level-2 Mathematics.

11. **Non-trivial Absences for Good Cause**

    (a) **Absences from classes:** medical certificates should be produced for periods of absence lasting more than one week, with self-certificates being given to Dr Moore to cover shorter periods of absence. Dr Moore should be informed in writing of reasons for any absence from tutorials.

    (b) **Absence from a workshop:** in every case written explanation must be submitted to Dr Moore.

    (c) **Absence from a degree exam:** a medical certificate (or other explanation in the case of absences not due to illness) must be submitted to the Registrar within 7 days of the exam.

12. **Publication of Workshop Marks**

    For your benefit, workshop marks will be published, identified by matriculation number but not name, on the class notice-board. Any student who **does not wish to have their marks published** should contact Dr Moore in his office and give him a written statement to that effect.

13. **Calculators in Degree Examinations**

    Calculators may be used in degree examinations, but only those which do not have a facility for either textual storage or display, or for graphic display.

14. **Staff-Student Committee**

    If you experience any difficulty in lectures or tutorials, or with the prescribed book, you should, in the first instance, discuss the problem with the lecturer or the level coordinator. If you feel that no progress is being made, then you can contact the Staff/Student Committee through your class representative, or through any other member of the committee—staff or student. For information about staff members and student representatives, see the notice board between Rooms 325 and 326, or the web address below.

    http://student.maths.gla.ac.uk/committees/staff-student/

15. **Mathematics Skills Test**

    The material covered by this is material that students should be familiar with from school. If you have not already passed the Mathematics Skills Test, you should attempt it as soon as possible, as many of these techniques are important for success in Mathematics–1T.

There are two modes of the Skills Test. In the first, students can practise the techniques, so that they become proficient in them. There is a link on Moodle to the website enabling you to practise for the Mathematics Skills Test. Note that this requires the Firefox browser to work properly. Some mathematics does not display correctly when using Explorer.

In the second mode, you take the test under timed and supervised conditions. Students can *retake it as many times as necessary* until they pass it. Details of the times when the test can be taken will appear on moodle.

16. **Follow-on-Courses**

Students who achieve a grade D or better in *two* level-1 Mathematics modules (one taught in the first semester and one in the second), and who have passed the Mathematics Skills Test will be able to progress to take a selection of level-2 modules next session. There is a wide variety of Mathematics modules available at level-2 to students from Mathematics–1T. However, as indicated earlier, students wishing to keep open the possibility of Honours involving mathematical subjects should at this time take Mathematics–1S.

17. **Prizes**

One or more prizes (to the value of £50 each) may be awarded to students whose overall performance in 1R and 1T is outstanding, on the basis of total marks over the session.

18. **Plagiarism**

Plagiarism is defined as the submission or presentation of work, in any form, which is not your own, without acknowledgement of the source. In particular it can arise from copying another student's work. You should read carefully the University's Statement on Plagiarism http://senate.gla.ac.uk/calendar/current/02-feesandgeneral.pdf

19. **Course Contents, aims and objectives**

See separate handout.