Background and Purpose:

- Maths 1A20 is an ‘Open unit’ for non-maths degree students. You should not be here if:
  - You are an Honours Maths student (single or joint)
  - You don’t have A-level Maths (or equivalent)
- Introduces and develops skills in Calculus needed to study the sciences at degree level.
- Revises and extends topics met in A-level Mathematics; students with Further Mathematics will be familiar with some of the material, but there are a number of new concepts and the course will be taught from a more rigorous point of view than at A-level.
- It caters for a wide range of backgrounds, so those who sometimes struggle should still find questions they can do, while those who have seen topics before should still find questions that stretch them.

Structure and Timetable:

- Maths 1A20 is 20cp unit running in Teaching Block 1 (weeks 1–12).
- Three lectures per week:
  - Tuesday 10:00 am (Chemistry Building, Lecture Theatre 1),
  - Thursday 9:00am (Chemistry Building, Lecture Theatre 1),
  - Friday 2:00 pm (Physics Building, Room G.42, Powell Lecture Theatre).
- One tutorial per week (in groups of approximately 15).
- You should be spending about 1/3rd of your time on this unit, i.e. 10 hours or so per week including lectures, tutorials, independent study and work on problem sheets.
- Assessed by a written examination in January.

Resources:

- Unit Organiser: Dr. Dr Sean Collins, Mathematics Building, Room 4.8.
- Lecturer for Weeks 1–6: Dr Sean Collins, Room 4.8 (Maths Building).
  email: e.j.collins@bristol.ac.uk. Office Hour: Monday 3:00 - 4:00 pm.
- Lecturer for Weeks 7–12: Dr Maria Zaturska, Room 3.8 (Maths Building).
  email: m.zaturska@bristol.ac.uk. Office Hour: Thursday 10:00 - 11:00 pm.
- Formal unit description on the web (you need to read this very carefully):
  http://www.maths.bris.ac.uk/study/undergrad/ – see under ‘Level C/4 (Open) units’.
- Books: Lots of books – see unit description for suggestions. The official course text is:
  However, the lectures notes should be self-contained.
- General administration: email math-info@bris.ac.uk
  e.g. absence due to illness, extenuating circumstances, requests to change units, etc.
Maths 1A20 Calculus webpage: http://www.maths.bris.ac.uk/~maejc/1a20/intro.html

This is an important page to bookmark. It is linked from Blackboard. It will contain:

- The course notes, arranged in Chapters. At the end of each week, electronic notes for that week will be uploaded to this webpage.
- Problems sheets – uploaded weekly with instructions about question to be handed in.
- Solution sheets – uploaded once work has been collected, marked and returned.
- Any additional material, links and announcements will be made on this webpage.

**Note:** The lectures will vary slightly from the online notes. While the maths covered will be the same, they will contain additional comments, possibly different examples, and diagrams that are not in the notes – *all of these are important to your understanding of the maths.*

Problem Sheets and Solutions:

- Homework set weekly from Problem Sheet.
- Tutorials: You will be assigned a 50-minute tutorial slot in groups of approximately 15 with an tutor to go through problems from the homework sheets. These will start as soon as possible – see your timetable on myBristol for details.
- You must hand in homeworks to your tutor, who will then mark and return it.

Feedback:

- You will receive individual feedback through: written comments on your marked homework; oral discussion and participation in the tutorials; problem and solution sheets, etc.
- If you want to give us feedback, or if you are unhappy about anything in the course or the lectures, please contact a 1st year student representative (see boards opposite Porters desk in Maths Building). Or, preferably, talk to your lecturer or your tutor directly.

Exam:

- January examination period 12th-23rd January 2015. More information nearer the time.
- In general all the notes and material in the problem and solution sheets is examinable.
- However material marked ‘Interesting stuff’ in the online notes, is not examinable.
- Calculators of an approved type (non-programmable, no text facility) are allowed.
- Past examination papers and solutions will be posted on Maths 1A20 webpage.

Course requirements:

- To pass the unit you must obtain a mark of 40 or more in the examination (40 is the University pass mark at this level).
- You are expected to attend at least 75% of tutorials and hand in at least 75% of set home-works. Otherwise credit may be withheld for the unit.