

**MATH 184: Differential Calculus with applications to Commerce and the Social Sciences**  
September 2008

**SCHEDULE:** Sections 101,102,103,104,105,106,107,108.

Lectures 12:00-1:00 MWF in MATH 100 plus 1.5 hour workshop either Tuesday 11:00-12:30 (Sec 101 in MATH 103, Sec 102 in MATH 225, Sec 103 in MATH 204, Sec 104 in MATH 105) or Thursday 11:00-12:30 (Sec 105 in MATH 103, Sec 106 in MATH 225, Sec 107 in MATH 204, Sec 108 in MATH 105).

**INSTRUCTOR:** Richard Anstee Office: Math Annex 1114, phone 604-822-6105  
email anstee@math.ubc.ca Home: phone 604-325-8877

**OFFICE HOURS:** 4:00-5:00 MW (tentative), You can try other times (I usually arrive by 9:00) but I may be busy. I will email the class with announcements including special times when I am available before tests to answer questions.

**my WEBSITE:** <http://www.math.ubc.ca/~anstee/math184/math184.html>

**course WEBSITE:** <http://www.math.ubc.ca/~maclean/math104-184.html>

**basic skills WEBSITE:** <http://www.math.ubc.ca/~scull/calctest-184.html>

There are other resources including time allocated in the first year tutorial center in LSK 202, AMS tutoring etc.

**TEXT:** *Calculus and its Applications*, 11th edition, Goldstein, Lay, Schneider, and Asmar.

**OUTLINE:** This course is for students with Principles of Mathematics 12 but no Secondary School Calculus. This course is aimed at students pursuing some applications in Economics and Business but is suitable for a broad range of students wishing Differential Calculus including MATH Majors. Given that this is a 4 credit course, expect to do at least 1/3 more work than in a regular 3 credit course. I will not follow the order of the course syllabus exactly but will cover all the material.

**GRADING:** Formula for final grades will be scaled based on a preliminary grade computed as 50% final, 50% term grade. The term grade will in turn be comprised of 10% basic skills test, 10% homework, 10% workshop attendance/participation, 70% best 3 out of 4 term tests. Our section will have their grades 'scaled' based on the section performance (median) on the final exam. Thus term grades will affect your grade but not as a precise percentage.

**WORKSHOPS:** There will be a participation grade of 10% for the term grade (5% of final grade). The TA's in the workshop will monitor attendance/participation. Participation will be 'effort' not 'performance'. They will comment on the work you do to aid learning but not record a grade beyond participation.

**ASSIGNMENTS:** There will be assigned homework of which a subset will need to be handed in and some will be graded. A total of 10% of your term grade will come from assignments. Work will have a due date and time and it is unlikely that late work can be accepted. Doing assigned work and review problems of your choosing will be very valuable/essential for learning.

**TESTS:** A test of basic skills will be given Monday September 8, evening (either 6-7:30 or 7-8:30) for 1.5 hours. Students who score below 20/30 will be required to write a makeup test evening Sept 22, others can participate but others can participate. It will count 10% towards your term grade (5% of final grade) and students should study for it. A syllabus will be posted. Four 50 minute term tests on Calculus scheduled for Friday Sept. 26, Friday Oct. 10, Friday Oct. 31, and Friday Nov. 14. Best three scores out of 4 will count 70% for your term grade (35% of final grade).

**FINAL:** 2 1/2 hours. It counts 50% of your final grade. The sections performance on the final exam will be responsible for scaling; help your fellow students!

**MISSED WORK:** Can From time to time students may be unable to attend midterms or the final exam. In the case of the Final Exam, the students should contact the Faculty of Science office and the missed final will be handled in a formal way. In the case of the Skills test, there are two opportunities to write. In the case of the 4 tests, please contact me (by email or to Math Office etc) **before** the scheduled test and given your reasons for the missed test. Assuming the reasons are legitimate, I will note that you will be missing the test and your test scores will be computed as best 2 out of 3. An unjustified single missed test will simply be counted as 0. In appropriately justified circumstances, two missed tests can be handled by having the remaining 2 test scores count. Completing one or no tests is not sufficient term work. A student must finish a significant amount of term work in order to pass. If you have further questions, please contact me.