

MAT186H1F CALCULUS I: Course Information**August 24, 2008**

MAT186H1F is an introduction to calculus and its applications. We assume only that you have seen limits and some derivatives in your high school courses. We will start the course with a quick survey of some trigonometric formulas that you probably have not seen in high school, but will need in university.

Section Instructors: By now you should be scheduled into one of the following Sections:

LEC0101	Cohen, S.	LEC0102	Beltran, C.
LEC0103	Burbulla, D.	LEC0104	Beltran, C.

Textbook: The textbook for this course is Edwards & Penney's *Calculus*, 7th edition, Early Transcendentals Version. This book is available in the textbook store; you may purchase it with or without the student solutions manual.

Marking Scheme: Assignments: 5% Test 1: 20% Test 2: 20% Final Exam: 55%

Tests: Ninety-minute term tests are scheduled for Tuesday Oct 7th and Tuesday, Nov 4th, 12:15-1:45PM. Test locations will be announced during the term.

Homework: Some of the odd-numbered exercises from the textbook have been selected as homework problems. (See reverse.) You can work on these problems on your own time or get help from a TA in tutorials.

Tutorials: By now you should be scheduled into one tutorial. It is important that you attend tutorials on a regular basis; it is one place you can get help with your homework, and it is the **only** place you can hand in your assignments. The first day of tutorials is Monday, Sep 8th; the last day of tutorials is Monday, Dec 1st.

Assignments: you will be asked to hand in one homework problem at the end of your tutorial during the weeks of Sep 15th, Sep 22nd, Sep 29th, Oct 20th, Oct 27th, Nov 17th and Nov 24th. Each problem will be marked on a 0, 1 or 2 basis as follows: 2 = perfect; 0 = really bad; 1 = anything in between. Your assignment mark will be the total of your seven assignment marks divided by 7, up to a maximum of 5.

Math Aid Hours: The math aid office is SF B670. Hours: 12:10-2 PM daily

Final Exam: There will be a common final exam, 2 and 1/2 hours long, to be scheduled by the Faculty office, during the exam period, Dec 5th to Dec 19th.

Classroom Deportment: the format of lectures is more formal than you may be used to. This means that during lectures there should not be any disruptions that would prevent other students from hearing or seeing the instructor. That is: no talking, no cell phones, no music, no eating or drinking, etc. You should raise your hand to ask a question. You should arrive on time. If you do arrive late, please enter by a back door and sit down in the first available seat so as not to disrupt the rest of the class.

Calculators: Use of a Casio 260, Sharp 520, or Texas Instrument 30 calculator will be permitted during all quizzes, tests and exams. However, it is still your responsibility to explain your work. A correct answer with no justification will receive no marks.

Course Outline and Homework Exercises: The following sequence of 39 lectures is only an approximate schedule. Some topics may be added or deleted.

Lectures	Topic	Reference	Homework Exercises
1 to 3	Trigonometry	Appendix C	#3, 7, 11, 15, 23, 25, 31, 37, 43, 47
4 to 8	Limits (some review)	Sec 2.1 Sec 2.2 Sec 2.3 Sec 2.4	#7, 13, 15, 19, 25, 27, 29, 31, 33, 35 #3, 13, 21, 27, 29, 31, 33, 37, 43, 59 #5, 7, 13, 19, 25, 39, 47, 53, 57, 59 #19, 27, 29, 39, 41, 47, 49, 51, 55, 59
9 to 15	The Derivative (mostly review)	Sec 3.1 Sec 3.2 Sec 3.3 Sec 3.4 Sec 3.5 Sec 3.6 Sec 3.7 Sec 3.8 Sec 3.9 Sec 3.10	#5, 7, 15, 17, 25, 27, 33, 37, 49, 51 #13, 17, 23, 25, 29, 37, 47, 53, 55, 69 #5, 15, 19, 25, 31, 33, 43, 49, 59, 61 #17, 23, 33, 41, 43, 47, 49, 61, 69, 71 #3, 11, 19, 25, 27, 29, 31, 35, 45, 51 #5, 9, 15, 17, 23, 31, 33, 45, 51, 59 #7, 17, 23, 45, 53, 63, 73, 77, 79, 81 #5, 7, 17, 27, 35, 49, 53, 55, 61, 65 #5-27 odd, 33-43 odd, 59, 61, 65, 67 #7, 13, 15, 19, 23, 25, 27, 29, 33, 39
16 to 23	Applications of the Derivative (some review)	Sec 4.2 Sec 4.3 Sec 4.4 Sec 4.5 Sec 4.6 Sec 4.7 Sec 4.8 Sec 4.9	#7, 9, 17, 21, 25, 27, 33, 37, 43, 47 #5, 9, 17, 21, 27, 35, 37, 43, 47, 49 #9, 11, 13, 15, 21, 23, 33, 45, 47, 49 #9, 11, 19, 25, 39, 43, 45, 49, 53, 57 #9, 17, 35, 45, 49, 65, 69, 73, 75, 79 #5, 11, 13, 15, 21, 31, 43, 47, 49, 53 #9, 15, 25, 31, 37, 47, 55, 59, 63, 69 #3, 7, 9, 15, 17, 19, 23, 25, 29, 33
24 to 31	The Integral	Sec 5.2 Sec 5.3 Sec 5.4 Sec 5.5 Sec 5.6 Sec 5.7 Sec 5.8 Sec 5.9	#11-51 odd, and #59, 61, 69, 75, 79 #5, 15, 19, 23, 31, 35, 37, 43, 47, 49 #3, 7, 11, 17, 43, 47, 49, 51, 53, 57 #7, 19, 23, 27, 29, 35, 41, 43, 47, 55 #9, 17, 23, 25, 27, 37, 45, 49, 57, 63 #7, 15, 27, 29, 43, 49, 55, 57, 63, 75 #5, 9, 17, 19, 29, 35, 37, 45, 47, 51 #3, 5, 9, 13, 15, 19, 21, 25, 27, 29,
32 to 39	Applications of the Integral if time permits	Sec 6.1 Sec 6.2 Sec 6.3 Sec 6.4 Sec 6.5 Sec 6.8 Sec 6.9	#5, 7, 11, 17, 25, 29, 37, 41, 43, 45 #3, 9, 15, 21, 25, 27, 35, 39, 41, 49 #3, 11, 15, 21, 25, 35, 37, 39, 41, 45 #5, 9, 13, 19, 23, 27, 29, 35, 41, 45 #3, 5, 11, 13, 15, 17, 25 #3, 13, 19, 29, 43, 49, 53, 59, 61, 65 #3, 11, 17, 19, 27, 33, 41, 47, 55, 69

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email: burbulla@math.toronto.edu; office hours: 12:10-2 PM daily

Course Websites: <http://www.math.toronto.edu/burbulla/>

In addition, all U of T courses have websites which can be accessed through the U of T portal.