

M408D Spring 2012

Unique Nos. 55080/85/90

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Hours: TTh 6-7:30pm

Rules: Don't miss class. Don't be late. Don't buy plane tickets which conflict with exams. Don't pack up early. Don't be rude.

Text: Stewart, Calculus, Early Transcendentals 7th Edition, of which we will cover most of Chapters 10–15. There are tons of ancillaries (solution manuals, CD's, web-access, etc.) which you can buy. Most students shouldn't bother with these.

Students with disabilities: The University of Texas at Austin provides, upon request, appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at 471-6259, 471-4641 TTY.

Grading: Quizzes:	28%
2 Midterm exams:	40%
Assessment (Quest)	2%
<u>Final Exam:</u>	<u>30%</u>
Total:	100%

We will be using the +/- grading system: 90% is at least an A, 86.7% is at least an A-, 83.3% is at least a B+, 80% is at least a B, etc. Usually, there's a good curve.

Exams and Quiz Dates: Nearly chiseled in stone, the dates for the midterm exams are Fri. Feb. 24, and Wed. Apr. 11. Most of the quizzes will be given in discussion section, usually on Tuesday. There are no make-up exams or quizzes. If you miss an exam, it's not automatically a zero (but it might be a zero.) At the end of the course, I'll make a rough guess as to what your score would have been, and you'll have to live with it. Your lowest quiz score will be changed to the maximum score at the end of the term. The date for the final exam is Fri. May 11 from 9 to 12 a.m., locations to be announced. Exams and quizzes will be closed-book, closed-notes, and no-calculator.

Homework Assignments on are on the next page and are subject to change. Which assignments you should do will be announced in class. Homework will not be collected, so don't bother doing it, unless you want to learn the material. To help you, the quizzes will ordinarily be two problems based closely on the homework.

Course Content: By the end of the semester, we should understand three mathematical concepts at a level which allows us to solve the assigned textbook problems. First, we will study sequences and series. We should be able to tell whether a sequence or series converges, and in some cases, tell what it converges to. We also reverse the problem by finding a series which converges to a given function. Second, we consider derivatives of vector-valued and multi-variable functions. This extends our knowledge of derivatives of single-variable functions, so that we can find rates of change and extrema of more general functions. Finally, we will study integration of these more general functions in order to find volumes, masses and centers of gravity of 3-dimensional objects. Therefore, the chief prerequisite for this course is a thorough understanding of single-variable calculus, e.g., success in M408C.

Dropping If you drop a class on or before February 1, the class will not show up on your transcript. If you drop a class after that date, the course will show up on the transcript with a Q grade. After April 2, it is not possible to drop a course except for extenuating (usually non-academic) circumstances.

Assignments:

Day	Section	Cycle I	Cycle II
1	4.4	7, 11, 15, 20, 37, 38, 47, 48, 55	10, 12, 18, 25, 32, 42, 52, 56, 60, 62
2	7.8	5, 12, 20, 23, 34, 49	8, 10, 15, 24, 28, 30, 35, 52
3	11.1	4, 8, 11, 19, 29, 30, 39, 51, 73	12, 26, 36, 38, 52, 78
4	11.2	5, 15, 26, 33, 41, 44	12, 14, 20, 21, 22, 27, 36
5	11.3	5, 10, 15, 19, 25, 36, 39	4, 6, 12, 16, 22, 26, 30, 34, 40
6	11.4	7, 9, 13, 14, 17, 25	3, 4, 16, 20, 26, 33, 34
7	11.5	5, 7, 14, 23, 27	6, 10, 16, 24, 28
8	11.6	2, 3, 7, 17, 20, 23	5, 8, 12, 27, 30
9	11.7	1, 15, 18, 23, 31	4, 6, 8, 10, 22, 36
10	11.8	3, 16, 24, 27	6, 8, 10, 18, 26
11	11.9	5, 11, 17, 26, 27	4, 8, 14, 18, 24, 30
12	11.10	7, 8, 15, 18, 27, 33, 47, 51	6, 10, 16, 26, 34, 43, 50, 53
13	11.11	3, 5, 13, 23	10, 20, 29
14	10.1	5, 14, 15, 28	3, 8, 12, 33, 34a, *43
15	10.2	3, 7, 17, 19, 25, 31, 34, 39, 43	8, 14, 18, 26, 32, 42, 48
16	10.3	3, 8, 9, 17, 19, 22, 25, 32, 37, 39, 54	4, 5, 10, 16, 24, 34, 38, 42
17		Exam 1	
18	10.4	3, 5, 12, 13, 23, 29, 32	4, 8, 14, 26, 30, 38
19	12.1	2, 7, 11, 15, 27, 32	4, 6, 10, 14, 16, 30
20	12.2	4, 21, 25, 27	6, 13, 18, 24, 29
21	12.3	3, 5, 15, 26, 31, 39, 42	8, 10, 18, 22, 29, 40, 52
22	12.4	2, 14, 17, 23, 33	5, 6, 19, 25, 32
23	12.5	5, 7, 14, 27, 37, 42	3, 10, 12, 26, 30, 33, 40, 48
24	12.6	3, 13, 15, 21–28, 41	6, 8, 12, 18, 20, 34, 42
25	13.1	1, 8, 17, 21–26, 28	4, 9, 12, 16, 36, 42
26	13.2	4, 9, 14, 25, 35, 45, 46	8, 13, 18, 21, 24, 32, 34
27	14.1	13, 19, 39–42, 43, 66	12, 16, 24, 26, 38, 59–64
28	14.3	15, 17, 23, 37, 51, 56, 59, 77	16, 18, 28, 43, 47, 54, 62, 68
29	14.4	1, 15, 17, 21, 26, 29, 31	4, 12, 19, 28, 32, 33
30	14.5	3, 8, 21, 38	4, 12, 35, 39
31	14.6	7, 9, 13, 23, 28, 43, 59	6, 8, 10, 16, 20, 44, 62
32	14.7	4, 5, 15, 29, 39, 41	6, 10, 18, 32, 40, 44
33	14.8	3, 6, 15	9, 10, 16, 19, 30, 34
34	15.2	5, 15, 21	4, 8, 14, 18, 26, 30
35		Exam 2	
36	15.3	3, 8, 16, 19, 31, 37, 44, 47, 49	4, 10, 15, 22, 24, 25, 46, 48, 52
37	15.4	5, 9, 12, 17, 24, 25, 29	6, 8, 10, 14, 20, 22, 32
38	15.5	3, 5	8, 13, 16
39	15.10	3, 7, 11, 16, 19	2, 9, 12, 15, 20, 23, 25