

Text: *Calculus: Early Transcendentals, Fifth Edition*, by James Stewart, Brooks/Cole Publishing Co., 2003.

Examination Dates:

- In-Term Exams: Monday, February 14, noon–1:20 p.m.
Monday, March 7, noon.–1:20 p.m.
Monday, April 4, noon–1:20 p.m.
Final Exam: Friday, May 6, 8:30 a.m.–10:30 a.m.

Adding and Dropping:

Thursday, February 3: Last day to add classes. Please note that Dr. Bihari (office BP 115, phone 72358) does all the adding and dropping for Math 11 until this date.

Thursday, February 17: Last day for sophomores, juniors and seniors to withdraw without a W and the last day to choose pass/fail option.

Thursday, April 7: Last day for first-year students to withdraw without a W.

Monday, May 2: Last day to withdraw from a course (with a W).

Prerequisites: This course assumes a strong background in high-school mathematics. Appendices A, B, and D contain essential review material.

Homework: Homework is due at the beginning of the class following the date listed on the syllabus. Homework is assigned for each lesson to give you practice in working with the material *actively*. The only way to learn mathematics is by *solving problems*. Homework will be collected and graded, starting with the third assignment. You will receive one point if the homework you hand in contains

1. a bona fide attempt to solve every exercise (copying the statement of the exercise does not suffice), and
2. the correct solution to at least 60% of the exercises. Answers alone *are not adequate*. You must show your work.

You may talk with friends and your instructor and you may check your answers using the back of the book and the solutions manual when doing homework. The final solutions you hand in must, however, be written *in your own words*. Late homework will not be accepted; however, you are allowed to miss two problem sets without penalty for whatever reason, e.g., illness or religious holidays. Note that graders may not read your solutions as carefully as we read your exams; expect us to be more demanding on exams.

Exams: No calculators, books, notes, or any other form of external help may be used on the exams. Once an exam is handed in, it may not be modified. You are required to sign your exam book. With your signature, you are pledging that you have neither given nor received assistance on the exam. Students found violating this pledge will receive an **F** in the course. Questions about the grading of an in-term exam must be written on the cover of the exam book and returned to the instructor during the class in which you get the exam back.

There will be no make-ups for the three in-term exams!

If you miss one, that will be the one crossed off in determining the final grade (see below).

Grades: All exams will be written down with the final exam appearing twice. The lowest of these five numbers will be crossed out and the remaining four numbers averaged. For every homework point after the first 20, one-tenth of a point will be added to your average. The resulting score will then be converted into a letter grade by the standard rules.

Tufts University
Department of Mathematics
Syllabus

Math 11

Spring 2005

Lect.	Sec.	Topic	Assignment
1	A,B	Preliminaries	p. A9: 9,21,27,33,34,39,45,49,51 p. A15: 7,21,27,29,37,41
2	1.1	Functions	p. 22: 1,5-8,20,24,27,34,37,39,41,45,47,50
3	1.5-6	Exponentials and Logarithms	p. 62: 15,17,25 p. 74: 21,23,25,27,35,37,39,49,51,59
4	D, 1.6	Trigonometric Functions	p. A32: 1,9,11,13,15,19,23,24,27,29,30,32,59,65,67 p. 74: 63,65,67,70-72
5	2.2-3	Limits	p. 102: 5,13,23,27,32a p. 111: 11,13,17,23,25,27,41,48
6	2.5	Continuity	p. 133: 4,5,9,16,17,35,37,41,45,47,49,51a
7	2.6	Asymptotes	p. 146: 3,7,13,15,19,23,29,33,[37,39: asym. only],53
8	2.7	Tangents	p. 155: 1,5ab,7,9,11,25a,27
9	2.8-9	Derivatives	p. 163: 4,5,7,13,15,17 p. 173: 4,21,23,27,29
First Examination (Lectures 1-9) Monday, Feb. 14, 12 noon-1:20 PM			
10	3.1	Basic Derivatives	p. 191: 5,9,11,17,21,23,25,31,39,40,45,54,55,60
11	3.2	Product and Quotient Rules	p. 197: 3,5-7,9,13,17,20,25,37,42
12	3.3	Applications	p. 208: 3,5,7,9,11a,13,20,29
13	3.4	Derivatives of Trigonometric Functions	p. 216: 1,3,5,7,9,13,21,23,31,33,35-38,40
14	3.5	Chain Rule	p. 224: 1-7,9,13,14,21,28,39,43,46,51
15	3.6	Implicit Differentiation	p. 233: 5,7,9,25,27,29,41,43,45,63
16	3.8	Derivatives and logarithms	p. 248: 3,5,7,9,11,25,29,31,35,37,39,41,43
Second Examination (Lectures 10-16) Monday, March 7, 12 noon-1:20 PM			
17	3.7	Higher Derivatives	p. 240: 7,9,13,18,19,23,25,35,36,43,45,47,49ac,51 p. 249: 21,24
18	3.1	Related Rates	p. 260: 6,7,9,17,23,31
19	3.1	Related Rates continued	p. 260: 8,11,14,19,25,34
20	4.1	Local and absolute extrema	p. 285: 5,7,11,19,20,25,33,37,41,45,47,49,53,57,62
21	4.2	Mean Value Theorem	p. 295: 1,3,5,11,17,19,24,27
22	4.3	Derivatives and geometry of graphs	p. 304: 1,11,13,15,17,21,35,37,45,62ab
23	4.4	Indeterminate Forms	p. 313: 1-3,4acd,5,9,11,15,17,23,25,31,36,37,41, 47,48,53,61
24	4.5	Curve Sketching	p. 323: 3,9,11,13,19,25,27,38,44
Third Examination (Lectures 17-24) Monday, April 4, 21 noon-1:20 PM			
25	3.11	Linear Approximation, Differentials	p. 267: 5,7,9,17,31,32,36,41,43,44
26	4.7	Max-min problems	p. 337: 5,6,9,11-13
27	4.7	Max-min problems, continued	p. 337: 15,17,19,30,33
28	5.1-2	The Riemann Integral	p. 378: 1,3,13,15 p. 390: 1,5ab,17,19,33,35,37,39,47,48 p. 358: 1,7,11-13, 15,19,25,27,31,35,40,41,61,63
29	4.1	Antiderivatives	p. 402: 3abc, 7,9,11,13,19,23,25,31,41,49,51
30	5.3	The Fundamental Theorem of Calculus	p. 411: 2,9,17,19,25,45,47,53,55
31	5.4	Definite Integrals	p. 420: 3,5,7,11,13,17,19,21,23,25,31,32,37,41,43
32	5.5	Substitution (Definite Integrals)	p. 420: 51,53,57,59,61,63,65
33	5.5-6	Substitution (Indefinite Integrals), Integrals and logarithms	p. 429: 1a, 3
34	6.1	Area between curves	p. 442: 1,3,5,9,11,13,17,21
35	6.2	Volumes of revolution	p. 452: 1,3,5,7,11,13,31,35,47,49

Final Exam (All Material): Friday, May 6, 8:30-10:30 AM

Math 11
Spring 2005 Calendar

Date	Sec.H (Nitecki)	Sec. C (Gwena)	Sec. D (McNinch)
20-Jan	1		1
21	2	1	
24			2
25	3	2	3
26		3	
27	4		4
28	5	4	
31			5
1-Feb	6	5	6
2		6	
3	7		7
	<i>Feb 3 is last day to add</i>		
4	8	7	
7			8
8	9	8	9
9		9	
10	10		Review
11	Review	Review	
First Exam (Lect 1-9): Mon Feb. 14 12noon-1:20PM			
14			10
15	11	10	11
16		11	
17	12		12
	<i>Feb 17: last day to choose P/F or drop without W (except Freshmen)</i>		
18	13	13	
21	<i>Presidents' Day: No Classes</i>		
22	14	13	13
23		14	
24		<i>Monday Schedule</i>	
25	15	15	14
28			15
1-Mar	16	16	16
2		17	
3	17		Review
4	Review	Review	
Second Exam (Lect 10-16): Mon March 7 12noon-1:20PM			
7			17
8	18	18	18
9		19	
10	19		19
11	20	20	
14			20
15	21	21	21
16		22	
17	22		22
18	23	23	
Spring Break March 19-27			
28			23
29	24	24	24
30		25	

Math 11
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31 1-Apr	25 Review	Review	Review
Third Exam (Lect 17-24): Mon April 4 12noon-1:20PM			
4			25
5	26	26	26
6		27	
7	27		27
8	28	28	
11			28
12	29	29	29
13		30	
14	30		30
15	31	31	
18		<i>Patriots' Day: No Classes</i>	
19	32	32	31
20		33	
21	33		33
22	34	34	
25			33
26	35	35	34
27		Review	
28	Review		35
29	Review	Review	
2-May			Review
Final Exam: Friday, May 6, 8:30-10:30am			