September, 1996

Approximate Syllabus and Problem List for Math 192:03

Text *Calculus (Early Transcendentals)*, 3$^{\text{rd}}$ edition, Brooks/Cole, by James Stewart

Technology Students may use graphing calculators in all parts of this course. I am most familiar with the TI-82, but any calculator with equivalent capacities can be used. Calculators or portable computers with QWERTY keyboards *cannot* be used during exams. A page of notes (both sides of a standard 8.5×11 inch sheet of paper) may be used during exams.

Syllabus and Problem List for Math 152, Sections 1 and 2

Date	Lecture	Reading	Topics
9/4	1	...	MVT implies FTC; two parabolas problem
9/5	2	6.2, 6.3	Review of calculus functions
9/9	3	6.4	Volumes
9/10	4	6.	More volumes; work
9/11	5	6.5	More work; average values
9/11	5	7.3, 7.4	Trigonometric substitution, partial fractions
2/5	6	7.6, 7.7	Integration strategies
2/8	7	7.8	Approximations for integrals
2/12	8	7.9	Improper integrals
2/15	9	8.1- 8.3	Differential equations, arc length, surface area
2/19	10	8.4	Moments, center of mass, review
2/22	11	**First Exam** (usual class time & place)	
2/26	12	10.1	Sequences
2/29	13	10.2	Series
3/4	14	10.3	Integral test, estimates
3/7	15	10.4	Comparison tests
3/18	16	10.5, 10.6	Alternating series, absolute convergence
3/21	17	10.6, 10.7	Ratio and root tests, strategies
3/25	18	10.8, 10.9	Power series, representation of functions
3/28	19	10.10	Taylor series
4/1	20	10.11, 10.12	Binomial series, applications
4/4	21		Review of sequences and series
4/8	22	**Second exam** (usual class time & place)	
4/11	23	9.1	Parametric equations
4/15	24	9.2	Tangents
4/18	25	9.3	Arc length
4/22	26	9.4	Polar coordinates
4/25	27	9.5	Calculus in polar coordinates
4/29	28		Review
5/1	**Final Exam**, 4:00-7:00 PM (place to be announced)		

OVER

Suggested problem list for Math 152

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Section	**Suggested problems**
5.5	1, 5, 12, 21, 30, 36, 37, 41, 44, 61, 68, 74, 81
6.1	2, 3, 11, 21, 22, 35, 45, 46
6.2	4, 7, 9, 17, 18, 33, 51, 55, 56, 60
6.3	2, 3, 13, 18, 35, 36
6.4	3, 5, 11, 16
6.5	5, 10, 12
7.1	1, 4, 5, 8, 13, 14, 37, 41, 56
7.2	1, 6, 17, 19, 20, 54, 58
7.3	5, 7, 8, 11, 14, 36
7.4	3, 9, 11, 19, 25, 39, 43
7.6	1, 2, 9, 15, 20, 23, 46, 49
7.8	1, 3, 4, 7, 21, 29, 32
7.9	1, 2, 3, 4, 12, 13, 27, 29, 30
8.1	3, 4, 17, 19, 29
8.2	5, 10, 21, 22
8.3	1, 6, 8, 23
8.4	1, 5, 10, 11, 18, 27
9.1	3, 9, 10, 13, 14, 28, 31
9.2	1, 2, 7, 12, 19, 24, 27
9.3	1, 6, 7, 9, 14, 15
9.4	4, 12, 20, 28, 47, 63, 74, 75
9.5	2, 5, 9, 17, 20, 44, 48
10.1	2, 3, 11, 12, 15, 19, 20, 24, 29 30, 59
10.2	7, 19, 20, 25, 27, 29, 40, 55
10.3	1, 3, 7, 9, 10, 17, 19, 25, 28
10.4	1, 2, 3, 6, 9, 16, 31, 33, 36
10.5	3, 4, 9, 10, 26, 27, 31
10.6	1, 4, 5, 10, 17, 20, 24, 25, 33, 34,
10.7	1, 5, 6, 8, 15, 23, 30, 37
10.8	1, 2, 3, 9, 10, 13, 24, 33
10.9	3, 11, 12, 21, 24, 25, 28, 35
10.10	2, 3, 17, 19, 20, 25, 33, 34, 37, 41
10.11	4, 13
10.12	3, 5, 9, 10, 13, 18, 19, 22