

Math 2200: Calculus (MWF 10:10-11:00)
Fall 2009

Professor Daniel K. Nakano
Office: Boyd Graduate Center, Room 402
Phone: 542-2643
Office Hours: MWF 1:20-2:20
Text: Edwards & Penney, Calculus with Analytic Geometry (UGA version)

COURSE SCHEDULE

Week	Topics	Homework
8/17-8/21	Tangent Lines, Slope	(2.1) 1,4,7,13,17,20,26,29,34 (2.2) 2,3,8,13,21,26,30,33,53,61
8/24-8/28	Limits, Continuity	(2.3) 1,4,7,19,24,27,35,37,48,55 (2.4) 3,12,13,30,32,45,49,51,55,66
8/31-9/4	Derivatives, Rate of Change, Basic Differentiation Rules	(3.1) 2,5,13,18,23,27,36,49,51,52 (3.2) 3,5,15,22,39,47,50,52,58
9/9-9/11	Chain Rule, Derivatives of Algebraic Functions	(3.3) 1,4,12,13,20,28,33,49,57,62 (3.4) 1,4,17,28,37,47,48,63,64,65
9/14-9/18	REVIEW MIDTERM (material through Section 3.4)	
9/21-9/25	Max-Min on a Closed Interval, Applied Max-Min Problems	(3.5) 5,7,13,18,19,27,33,41,44,47 (3.6) 1,2,10,11,16,21,30,44
9/28-10/2	Derivatives of Trigonometric Functions, Exponentials, Logarithms, Inverse Functions	(3.7) 5,11,20,33,51,58,64,70,77,81 (3.8) 1,7,13,23,33,38,48,58,59
10/5-10/9	Implicit Differentiation, Related Rates, Applications of the Derivative, Increments, Differentials, Linear Approximation	(3.9) 1,6,9,17,25,31,34,37,41,44, 51,54,56,58,63,67 (4.2) 1,4,7,14,17,22,25,30,37,42 44,45,49,50
10/12-10/16	REVIEW MIDTERM (material through Section 4.2)	
10/19-10/23	Increasing and Decreasing Functions, Mean Value Theorem	(4.3) 3,7,10,11,13,22,25,29,33,42,47,58

10/26-10/28	First Derivative Test, Applications, Curve Sketching	(4.4) 2,7,19,26,29,33,35,41,43,44,46 (4.5) 2,4,6,9,15,20,25,38,49,51
11/2-11/6	Higher Derivatives, Concavity, Curve Sketching, Asymptotes	(4.6) 2,7,10,20,27,31,36,44,50,65,76,87 (4.7) 1,9,13,22,30,34,40,45,47
11/9-11/13	Integrals, Antiderivatives, Initial Value Problems, Evaluation of Integrals	(5.2) 1,5,12,17,25,33,35,42,49,52,60,63,64,68,73,79 (5.5) 2,7,14,27,36,45,48,63,64
11/16-11/20	Separable Differential Equations	(8.3) 1,4,14,20,31,32,33,34,37,40
11/30-12/4	Additional Topics	
12/7-12/8	REVIEW for Final Exam	

Final: Wednesday, December 16, 2009, 8:00-11:00am.

Grading Policy

Final: 40%

Midterms (2): 20% each

Homework: 20%

Remarks:

1) I highly recommend that you read your book before coming to class. You will probably not understand everything the author says, but it will help you to keep up during the lectures. Success in this class will depend on your ability to read outside of class.

2) In the Tuesday recitation section you will have a chance to ask questions about the homework problems from the previous week. The homework is due on at the beginning of class on Wednesday (the next day). No late HW will be accepted.

3) Academic Honesty: The University of Georgia expects every student to live up to the highest standards of academic honesty and ethics. There are severe punishments for cheating enforced by the university.

4) This syllabus is a general course plan, but deviation may become necessary over the course of the semester.

5) Withdrawals: You may withdraw without penalty before the third HW assignment is due. After that point the assignment of a W or a WF will depend on whether you are making passing marks in the course.