

12:20

Fall 2009

Math 2200: Calculus (MWF ~~12:30~~ 12:30-1:10 pm; Recitation Tu. 12:30 – 1:45 pm). Physics, rm. 222

Instructor: Frank L. Churchman (Recitation: Shannon Hu)

Office: Boyd Graduate Center, Room 535

Phone: (706) 542-5287

Text: Edwards & Penney, Calculus with Analytic Geometry (UGA version)

Office Hours: TTh12:50pm-1:50pm, Wed. 1:15-2:15 pm, and by appt.

COURSE SCHEDULE

Week	Topics	Homework
8/17-8/21	Tangent Lines, Slope Limits	(2.1) 1,4,7,13,17,20,27,29,34 (2.2) 2,3,9,13,21,26,29,33,53,61
8/24-8/28	More Limits, Continuity	(2.3) 1,4,7,19,24,27,35,37,47,55 (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) 2,5,13,18,23,27,37,49,51,52 (3.2) 3,5,15,22,39,47,50,51,58
9/7-9/11	Chain Rule, Derivatives of Algebraic Functions	(3.3) 1,4,11,13,20,31,33,49,57,62 (3.4) 1,4,17,28,37,47,49,63,65,67
9/14	Finish 2.1-3.4 review for Test I	Review Material Sections 2.1-3.4
9/16	Test I (material 2.1 through 3.4)	TEST I
9/18-9/25	Go Over Test I on Friday and then do Max-Min Problems on a Closed Interval, and Applied Max-Min Problems	(3.5) 5,7,13,18,19,27,33,41,44,47 (3.6) 1,2,10,11,13,16,21,29,44
9/28-10/2	Derivatives of Trig. Functions, Exponentials, Logarithms, Inverse Functions	(3.7) 5,11,20,33,51,58,64,70,77,81 (3.8) 1,7,13,23,33,35,48,58,59
10/5-10/14 (Midpoint of term is Oct.8- Th.)	Implicit Differentiation, Related Rates, Applications of the Derivative, Increments, Differentials, Linear Approximation, Review for Test II	(3.9) 1,6,9,17,25,31,37,41,44, 51,54,56,58,63,67 (4.2) 1,4,7,14,17,22,25,29,37,43, 45,49,50
10/16	Test Section 3.5- Section 4.2	Test II

10/14	Go over Test 2, Introduce Increasing and Decreasing Functions	(4.3) 3,7,10,11,13,22,25,29,33,42,47,58
10/19-10/23 Note: 10/22 is Withdrawal Deadline	Mean Value Theorem 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
10/26-11/2	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
10/30(Friday)	Fall Break	
11/2-11/13	Integrals, Antiderivatives, Fundamental Theorem of Calculus, 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 REVIEW FOR TEST III	Finish material Sections 4.3 – Sections 8.3, Review for test III	
12/2	Test III	
12/4, 12/7,12/8-Tu	Go over Test III Prepare for final	

Final Exam: Monday, December 14, 2009 from 12:00 noon-3:00pm-this room.

HAVE A GREAT LIFE

Grading Policy

Final: 36%

Tests (3): 16% each

Homework: 16%

Remarks:

1) I highly recommend that you read your book before coming to class. You may 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) The recitation is in room 222 of this building (1023) at 12:30-1:20 on Wednesdays. In these recitations, you will have a chance to ask questions about the homework problems from the previous week. The homework is due at the beginning of class on the following Monday beginning with the second week. **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 until a week after the first test is taken. After that point the assignment of a W or a WF will be depend on whether you are making passing marks in the course.

6) Final exam: Your final exam will replace your lowest test grade if it is higher than the lowest test grade.

7) Attendance: A roster will be passed around at the start of each class for you to initial. After three (3) absences, I reserve the right to drop you from the roll. There are no excused absences. Validated excuses are required.

