

Math 2200: Calculus (TTH 2:00-3:15 pm; recitation W 2:30 – 3:20 pm)  
Fall 2009

Instructor: Frank L. Churchman (Recitation instructor: Shannon Hu)  
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Phone: (706) 542-5287  
Office Hours: THh12:50pm-1:50pm, Wed. 1:25-2:25 pm, and by appt.  
Text: Edwards & Penney, Calculus with Analytic Geometry (UGA version)

COURSE SCHEDULE

Week	Topics	Homework
8/18-8/20	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
8/25-8/27	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
9/1-9/3	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
9/8-9/10	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
9/15	Finish 2.1-3.4 & review for Test I	Review Material Sections 2.1-3.4
9/17	Thursday Test I (material 2.1 through 3.4)	TEST I
9/22-9/24	Go Over Test I on Monday and then 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
9/29-10/1	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
10/6-10/8 (Midpoint of term is Oct.8- Th.)	Implicit Differentiation, Related Rates, Applications of the Derivative, Increments, Differentials, Linear Approximation	(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

10/13	Finish material (Section 3.5 - Section 4.2)	Review material section 3.5- Section 4.2
10/15	Test Section 3.5- Section 4.2	Test II
10/20-10/22 NOTE: 10/22 is Withdrawal Deadline	Increasing and Decreasing Functions, Mean Value Theorem	(4.3) 3,7,10,11,13,22,25,29,33,42,47,58
10/27-10/29	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
11/3-11/5	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
11/10-11/12	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
11/17-11/19	Separable Differential Equations	(8.3) 1,4,14,20,31,32,33,34,37,40
12/1 REVIEW FOR TEST III	Finish material Sections 4.3 – Sections 8.3	REVIEW 4.3-4.7,5.2,5.5,8.3
12/3	TEST III	Sections 4.3-4.7, 5. 5.5, 8.3
12/11 (Friday) 3:30pm – 6:30pm	FINAL EXAM	Have a gooooood 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 2:30-3:20 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 during recitation class on Wednesday, beginning during 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.

