

MA 2200/24-412 CALCULUS 1
Course Information-SPRING 2003

Instructor: Damon Gang

Class Time: ~~M~~ W F 2:30-3:20 p.m. *Monday: after class*

Class Building/Room: Boyd GSRC/304

Office Building/Room: Boyd GSRC/325B

Office Phone: (706) 542-0646

Office Hours: ~~M~~ W F 1:15-2:15 p.m. 

(Please don't be shy about asking to see me during other hours.)

E-mail: gang@math.uga.edu (I check my e-mail on a daily basis.)

Goals:

- Understand limits, derivatives, and anti-derivatives from graphical, algebraic, and numerical viewpoints.
- Understand applications of derivatives and anti-derivatives.
- Further enhance problem-solving skills and reasoning abilities.
- Further enhance ability to handle equations symbolically.
- Develop skills to write more abstract mathematical arguments and elementary mathematical proofs.
- Develop independent thinking and good study habits.
- Develop a better appreciation of mathematics.

Text: Edwards and Penney, *CALCULUS, Early Transcendentals Version*, 6th edition

Calculus Lab: All students must register for the lab, MA 2200L.

Calculator: We'll discuss this. (It wouldn't hurt to own a graphing calculator. For example, the TI-83, TI-86, and TI-89 are good calculators.)

Attendance: Attendance is required. An attendance sheet will typically be passed around in the first 15 minutes of class. Coming in after the attendance sheet has been passed around will be considered as a full absence. Unless circumstances warrant, if you leave class early, you will also be marked absent for that day (up to the instructors discretion). Students are allowed no more than 5 absences including both excused and unexcused absences. On the sixth absence a student may be withdrawn from the course with a grade of W or WF (definitely WF after the midpoint). These are only to be used in cases of illness or family emergencies. Attendance will be taken and considered in assigning a grade. After some research, Simpson and Nist found that there was a direct positive relationship between attending class regularly and the level of grade received. [M.L. Simpson and S.L. Nist, "A Case Study Of Academic Literacy Tasks and Their Negotiation in a University History Course," in D.J. Leu and C.K. Kinzer, eds., *Forty-First Yearbook of the National Reading Conference (Chicago: National Reading Conference, 1992).*]

Participation: All students are expected to participate in class where appropriate.

Participation will make it easier for you to maintain concentration and interest.

Participation will be considered in assigning a grade. This includes going up to the board

and explaining your solutions to problems to the rest of the class. You should plan on presenting solutions on the board at least twice (probably more...based on similar courses I have taught). Participation is 5% of your grade.

Homework: There will be practice problems and problems to hand in. You will usually have a week to do collected assignments. These assignments will be due at the start of class on the announced due day. If the assignment is handed in by the next day it will only be worth half credit. If the assignment is handed in the day after that then it will be worth one quarter the original value and nothing after that. You must solve problems. The more exercises you do the better you will get. Reading the chapters is extremely important, but, you must do the problems. Homework will account for 15% of your grade.

Exams: I expect to give four tests, several quizzes, and a final exam. There are no make-ups. It is very important that you are present for all exams. If you miss an exam then you will get zero points. The quizzes will be short tests which, when taken together, will account for 15% of your grade. The four tests will account for 35% of your grade. The final is worth 30% of your grade. You may not miss the final exam. All students are expected to be present for the final.

Tentative Schedule:

Holiday on January 20

Test #1 January 31

Test #2 February 21

Test #3 March 14

Holiday from March 15 to March 23

Test #4 April 18

Final May 7 12:00-3:00 p.m.

Note: Monday schedule on May 1

Groups: There will be times when the class is divided into small groups of 2 or 3 people to solve problems. Group members will be expected to work together, help each other understand concepts, and solve problems as a team.

In Summary: Participation 5%

Homework 15%

Quizzes 15%

Tests 35%

Final 30%

We will cover material from sections 2.1-2.4, 3.1-3.9, 4.1-4.7, 5.1-5.2

Integrity Statement: All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe and ignorance is not an acceptable defense.