

MATH 2200L: Calculus Lab

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MATH 2200L
Homepage: <http://www.math.uga.edu/calclab/>

Course Description: The Calculus Lab has been designed to give you an opportunity to investigate problems in greater depth than is possible in a standard lecture course. It also allows you to do investigations in your own creative way. Finally, the lab helps you develop expository technical writing skills - a very valuable asset in today's market. In the Calculus Lab you will work on projects and write reports on your investigations with the aid of Maple 9, a modern computer algebra system, which helps with lengthy calculations. Maple 9 also creates interesting graphic displays, and serves as a word processor for your reports. You are not expected to have had any prior experience with Maple 9. You will learn the basics of Maple as you work on projects. The syntax used by Maple is very similar to that used by many of today's hand-held graphing calculators (for example the TI-83).

Grading Policy: There will be six projects assigned. They MUST BE TURNED IN AT THE BEGINNING OF CLASS. Each lab will be worth fifteen (15) points. Note that I will take the projects late, but a late penalty will be imposed. Two points will be taken off for every day late. [One point will be taken off if you hand it in on Fridays AFTER I have taken them up at the beginning of class]

The grading scale will break down as follows:

Projects 1 - 6	90 points (15 points each)
Class Participation	10 points
Total	100 points

Attendance: Attendance is required for this class. Roll will be called every week at the beginning of class. You are allowed 2 absences [excused or unexcused] during the semester. For every day you miss past the two allotted absences, 10 points will be taken from your cumulative semester grade. Note that absence during a Friday in which the lab is due does not excuse you from the late penalties.

Classroom Etiquette: Students must arrive to class on time and should stay until class is dismissed. Have all cell phones, beepers, etc. turned off (or on silent mode). If you must take a call, step outside in a mannerly fashion to do so. Note that no food or drinks are allowed in the lab.

Academic Honesty: 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. Students should pay particular attention to sections 5 and 7 of the academic honesty statement at http://www.uga.edu/ovpi/academic_honesty/culture_honesty.htm

Tentative Class schedule:

Jan 11/13: Syllabus, attachments

Jan 18/20: Project 1
Jan 25/27: Project 1 due @ noon

Feb 01/03: Project 2
Feb 08/10: Project 2 due @ noon
Feb 15/17: Project 3
Feb 22/24: no class

Mar 01/03: Project 3 due @ noon
Mar 08/10: Project 4 - no class
Mar 15/17: Spring Break
Mar 22/24: Project 4 due @ noon
Mar 29/31: Project 5 - New Newton's Method

Apr 05/07: Project 5 - New Newton's Method
Apr 12/14: Project 5 - New Newton's Method due @ noon
Apr 19/21: Project 6
Apr 26/28: Project 6 due @ noon

Note that this syllabus is subject to change as I deem necessary.