

MATH 2200L
Differential Calculus Lab
(Spring 2003)

Course: MATH 2200L
Call: 74-437

Room: GSRC 1023-0220
Time: 09:30P- 10:20A T

Instructors: Moustapha PEMY
Office: 427F Boyd Graduate Studies Bldg
Email: pemy@math.uga.edu
Office hours: 10:30A- 12:00P T.
Phone: (706) 542 2619

Course description.

The Calculus Lab has been designed to allow you to investigate mathematical problems in greater depth than is possible in a lecture course. You will work on projects and write reports on them with the aid of Maple, a computer algebra system.

Materials

Students can get projects from
<http://www.math.uga.edu/calclab2200/>
Maple 8 is available on EITS sites.

Projects

Date		due date
Jan. 14	Introduction to 2200L	
Jan. 21	Welcome to Maple I & II	Feb. 4
Feb. 4	Limits and Spreadsheets in Maple.	Feb. 11
Feb. 11	Definition of the Derivative - Tangent Lines	Feb. 25
Feb. 25	Newton's Method	Mar. 11
Mar. 11	Power Lines through the Park	Mar. 25
Mar. 25	Implicit Plots and Derivatives	Apr. 1
Apr. 1	Parametric Equations	Apr. 15
Apr. 15	Analysis of a Graph	Apr. 29
Apr. 29	Final class	

Course grading.

Grades will be based on a student's performance in the 8 projects and 2 quizzes. The score needed to get the various grades are:

A: 80%-100%; B: 70%-79%; C: 60%-69%; D: 50%-59%; F: 0-49%.

Withdrawal policy.

If a student withdraws from a lab, the student must withdraw from the regular course.

Additional information

1. You are encouraged to work in groups on projects. You may obtain results as a group. However, the final write-up of your report must be your own. Each student must sign her/his report after the academic honesty statement at the end of the report.
2. The mathematics department will run Open Labs for more information see the 2200L homepage:
<http://www.math.uga.edu/calclab/>
3. This course syllabus provides a general plan for the course; deviation may be necessary.