

**MATH 2200L**  
**Differential Calculus Lab**  
**(Spring 2004)**

Course: MATH 2200L  
Call: 10-092

Room: GSRC 1023-0221  
Time: 12:20P-01:10P W

Instructor: Charles Pooh  
Office: 434G Boyd Graduate Studies Bldg  
Office hours: 10:30A-12:00P T. Other times by appointment

Email: pooh@math.uga.edu  
Phone: (706) 542 2618

Course WebCT: [webct.uga.edu](http://webct.uga.edu) - Math 2200L (pooh)  
Course web site: [www.math.uga.edu/calclab](http://www.math.uga.edu/calclab)

**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.**

The descriptions of all the projects you will be working on this semester are available on webct: [webct.uga.edu](http://webct.uga.edu) – Math 2200L (pooh). The software used for calculus labs is Maple 8. You are not required to purchase the software, it is available at the major EITS labs on campus (for those wishing to purchase Maple 8 for personal computers, it is available at the University Bookstore)

**Projects.**

Introduction to Differential Calculus Labs	Jan. 14
Project 1. Limits with Maple	Jan. 21
Project 2. Derivatives with Maple	Jan. 28
Project 3. Tangent lines	Feb. 4
Project 4. Home Mortgages	Feb. 11
Project 5. Newton's method	Feb. 18 – Feb. 25
Project 6. Closed point	Mar. 3
Project 7. Parametric curves.	Mar. 17- Mar. 31
Project 8. Analysis of a graph	Apr. 7 – Apr. 28

**Grading policy.**

Grades will be based on a student's performance in the 8 projects, each of which will be worth 12.5%. The grading scale is A: 90%-100%; B: 80%-89%; C: 70%-79%; D: 60%-69%; F: 0-59%

**Attendance policy.**

A student who misses three or more classes will have his/her grade lowered by one letter, if they are not made up.

**Withdrawal policy.**

Math2200L is a co-requisite for Math2200. This means that if you withdraw from Math2200L and you are currently enrolled in Math2200, you must withdraw from Math2200.

**Additional information.**

1. This course is listed on WebCT at [webct.uga.edu](http://webct.uga.edu). Students should get a MyUGA account. Grades and other information will be posted on the course page. Reports should be turned in on WebCT.
2. 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. 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.
3. The Mathematics Open Lab provides help to students in Math 2200L and is open in room 308 of Boyd from 10:00A-2:00P on Mondays through Fridays. These labs will be staffed with individuals who will be able to help you with both mathematical questions and Maple questions about your projects.
4. This course syllabus provides a general plan for the course; deviation may be necessary.