

MATH 2200L
Differential Calculus Lab (Spring 2006)

Course: MATH2200L

Call#: 20-182

Instructor: Irfan Bagci

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Office Hours: TBA

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Time: Wednesday, 1:25pm-2:15pm

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Objectives of the Course:

Calculus Lab has been designed to give you an opportunity to investigate a lot of calculus problems in a lecture course using a computer algebra system, called MAPLE. This course will help you to understand the concepts and methods in calculus that you are studying in your calculus lecture course. You can solve equations, graph functions, and simplify algebraic formulas very easily and fast using MAPLE. The timing of the topics that are covered in both courses may not be coordinated.

Lab Manual:

<http://www.math.uga.edu/calclab/calclab2200>

Co-requisite Course: Math2200

A student who is withdrawn from Math2200L should withdraw from the co-requisite course.

Attendance:

Full participation is required. But a student may miss at most two classes without penalty. But you must keep this opportunity for an emergency. A student who misses three or more classes will get his/her grade lowered by one grade or more. If you leave the class early without any excuses or reasons, your attendance will be ignored for the class. You will get 'F' if you miss five or more classes including emergencies.

Projects & Due Dates:

All projects are due on the dates shown below. Any change from the plan that follows will be announced in class.

Project 1: Welcome to Maple Part I- II	Jan 25
Project 2: A Geometric Limit	Feb 8
Project 3: Tangent Lines	Feb 22
Project 4: Home Mortgages	Mar 1
Project 5: Newton's Method	Mar 22
Project 6: Bungee Jump	Mar 29
Project 7: Analysis of a Graph	Apr 12
Project 8: Implicit Plots and Derivatives	Apr 26

Project Format:

In this Lab, you will work eight projects. You may collaborate with other students; however, you must write each project by yourself, using your own words. Reports should be neat and professional, no handwriting on the report except your signature.

-Each project consist of 3 parts: Introduction, Main Part, and Academic honesty statement.

-Write in the introduction what you work in the project, having at least three lines.

Grading:

Projects (80), Attendance(10), and 10 points will be given based on my observations in class

-10 points for each project; 3 points off if late.

-No chance to revise or redo each project

A:100-90; B:89-80 C:79-70 D:69-55 F:0-55

The Academic Honesty Statement:

At the end of each project, you must include a signed Academic Honesty statement listing the student you worked with; however, the reports should not be identical. That is, students are supposed to use their own words to explain their works. If this statement or signature is missing, 3 points will be count off.