

Mathematics 2210L Syllabus (Spring Semester, 2004)

Integral Calculus Lab

Call number: 10-125, 50-127

Instructor: Daeshik Park
Office: Room #427C Boyd GSRC
Office Hour: Monday 1:30-2:30 P.M. or
By appointment
Telephone: 542-2641
E-mail: dpark@math.uga.edu

Objectives of the Course:

Calculus Lab has been designed to give you an opportunity to investigate calculus problems in greater depth than is possible 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 and so on, using Maple. Some of the topics of the lab may not be covered in your lecture course. In addition, the timing of the topics that are covered in both courses may not be coordinated.

Lab Manual:

Mathematics 2210L, Integral Calculus Lab from the site
<http://www.math.uga.edu/calclab/calclab2210/>

Co-requisite:

Math 2210L is a co-requisite for Math 2210. If you withdraw from Math 2210L, you must also withdraw from Math 2210.

Syllabus and Project Due Dates:

Any deviations from the plan that follows will be announced in class. **Projects are due at the beginning of the class on the dates shown.**

The topics and due dates are:

Project 1: Welcome to Maple	February 2
Project 2: New Riemann Sums	February 16
Project 3: Area between Curves	March 1
Project 4: Trapezoidal Rule	March 15
Project 5: Simpson's Rule	March 29
Project 6: Solids of Revolution	April 12
Project 7: Equiangular Spiral	April 26

Format:

In the Lab you will work six projects, and write reports on them. You may collaborate with other students while working on projects. However, **you must write each project by yourself**; to copy someone else's report constitutes plagiarism, which has severe consequences. 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. **At the end of each project, you must include a signed Academic Honesty Statement listing the students you worked with.** I follow all the rules in the Catalog, including those pertaining to grades and academic honesty

(http://www.uga.edu/ovpi/academic_honesty/culture_honesty.htm), which you will find at the end of each project.

1. **Reports should be neat and professional** (I will not allow any kinds of handwriting on the report except your signature), **written so as to communicate mathematics with a fellow student. Explain every step with complete sentences what you are going to do before Maple syntaxes. Your explanation should be reasonable and make sense.**
2. You must work every project, and turn in a satisfactory report for each one.
3. You should be persistent, not quitting until you obtain good results.
4. You should practice actively in class. In particular, you must attend class regularly and work on the lab during the entire class period.

Grading:

I will grade each project out of 20 points and **count off your grade by 5 points if you don't attach a signed Academic Honesty Statement. For a late report, I will count off your grade by 5 points.** Possibly, there will be a **Quiz** on the final date, **April 29**. There is no final examination in this course. Your course grade will depend solely upon your project report grades and exercises (including quizzes) worked in class. Students who participate actively and complete every project can expect to receive an A or B. I will correct and return each project to you at the following class meeting if possible. **There will be no chance to revise or redo each project.** The distribution of the final grade is the following: **A** $\geq 85\%$, **B** $70\% \leq B < 85\%$, **C** $60\% \leq C < 70\%$, **D** $50\% \leq D < 60\%$ and **F** $< 50\%$.

Attendance:

Full participation in the course is required. A student may miss two or fewer classes without penalty. **You must keep this opportunity for an emergency (health or family issues).** A student who misses three or more classes will have his/her grade lowered by one letter grade or more. If you leave the class early without any excuses, your attendance will be ignored for the class. **I will not allow you to make up a class that you miss. I will give you "F" if you miss five classes or more including emergencies.**