

## MATH 2210L Integral Calculus Lab (Spring 2004)

Course: MATH 2210L Room: GSRC 1023-0221  
Call: 60-122 Time: 09:30 – 10:45AM, Tuesday  
Instructor: Jianbao Wu Phone: (706) 542-2781  
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Office hours 10:00-12:00 Friday. Other times by appointment

### Course description

The calculus labs have been designed to give you an opportunity to investigate math problems in greater detail than in the calculus books. You will work on projects and write reports on them with the aid of Maple, a computer algebra system.

### Materials

There is a lab manual for sale at the bookstore. There is a disk with the book, the disk include all the labs. Course web site: <http://www.math.uga.edu/calclab2210/>

### Projects (Each item's date is due day)

Initiation to Maple and Calculus Lab

|           |                       |          |
|-----------|-----------------------|----------|
| Project 1 | Welcome to Maple      | Jan. 27  |
| Project 2 | Riemann Sums          | Feb. 10  |
| Project 3 | Area Between Curves   | Feb. 24  |
| Project 4 | Solids of Revolution  | Mar. 16  |
| Project 5 | The Annual Salmon Run | Mar. 30  |
| Project 6 | Simpson's Rule        | April 13 |
| Project 7 | A Gas Tank Problem    | April 27 |

### Course grading

Grades will be based on a student's performance in the 7 projects (70% of the course grade) and participation (30% of course grade). 10 points are possible for each project. 2 points will be taken off if late or bad report style. If the project is later more than one week of the due day, this project will be zero points. The final score is (sum of 7 projects + participation)/100. The score needed to get the various grades are: A: 90%-100%; B: 80%-90%; C: 70%-80%; D: 60%-70%; F: 50-60%. You're supposed to hand in every project. If you miss one but less than four, your final grades will be lower one letter. If you miss 4 or more projects, you get F.

### Attendance policy

A student who misses three or more classes that he/she does not make up will have his/her grade lowered by one letter. But if you miss five or more classes, you'll be withdrawn from this course and your final grades will be W or WF no matter how many make-ups. You're supposed to work on your project at least 40 minutes in every class, otherwise scores of participation will be lower.

### Withdrawal policy

If a student withdraws from a lab, the student must withdraw from the regular course-math2210. Students will initiate their own withdrawals on OASIS.

### 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, if not, you get at least 4 points off and no chance of redo.
2. There will be open lab, you will get notice when there are open labs, you can work on your projects in that room, and there would be somebody to whom you can relate for help.
3. You can redo your project, you must turn in your redo project in a week after you get your graded one. I will take average of the both.
4. This course syllabus provides a general plan for the course; deviation may be necessary.
5. Visit your WEBCT at least one time every week.