Calculus III, Math 2401
Course Syllabus
Spring Semester 2006

Instructor: Andrzej Swiech
Lectures: TR 3:05-4:25 pm, Howey Physics L4
Office: Skiles 235B
Office Hours: TR 1:00-2:30 pm
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Course web page: http://www.math.gatech.edu/~swiech/2401.html

Recitations:
F1, Charles Martin, gtg473i@mail.gatech.edu, MW 3-4 pm, Skiles 153
F2, Ulfar Stefansson, ustefans@math.gatech.edu, MW 3-4 pm, Skiles 168
F3, Marc Sedjro, sedjro@math.gatech.edu, MW 3-4 pm, Skiles 271
F4, Jialiang Wu, wjl@math.gatech.edu, MW 3-4 pm, Skiles 243
Math Lab: Skiles 257

Textbooks: Salas, Hille and Etgen, *Calculus, one and several variables*, 9th edition, John Wiley and Sons, Inc.

Course Description: The course introduces the students to functions of several variables and vector analysis. The detailed description of the topics to be covered is the following:

2. Functions of several variables, visualization and partial differentiation, Sections 14.1-14.6, 6 lectures.
3. Gradients, optimization, differentials, Sections 15.1-15.9, 10 lectures.
4. Double and triple integrals, Sections 16.1-16.10, 10 lectures.
5. Vector analysis - line integrals, surface integrals, and the theorems of Green, Gauss, and Stokes, Sections 17.1-17.10, 10 lectures.

Grading: There will be three tests (February 7, March 7, and April 11), homework assignments, and the final exam. Your final score will be scaled to 100% and calculated according to the following rule: Homework will count for 20% of the final score, each test for 15%, and the final exam for 35%. You will get an A, respectively B, C, and D if your final score is greater than 85%, respectively 70%, 55%, and 40%. These requirements may be lowered if the overall average score of the class is low (i.e. your grade may get curved up). Improvement will be taken into account in assigning final grades.

Homework: Homework will be collected every other week on Thursdays in recitations and will be graded by the TA. You are required to do all assigned problems however
only selected problems will be graded. Please check the news and announcements section of the course web page for the precise information about what is due and when. Late homework will not be accepted however the worst homework score will be dropped so you can even miss one assignment.

Free tutorial help is available in the Math Lab, Skiles 257. The Math Lab is staffed by graduate and senior teaching assistants.

Please be aware of the Georgia Tech Honor Code and follow it carefully. In particular please make sure that all the work you submit is your own.