COURSE INFORMATION: MATH 251 Multivariable and Vector Calculus
Fall 2007

Lecture Time and Place: 11:25am, Monday-Wednesday-Friday at 108, Perlstein Hall

Instructor: Hemanshu Kaul

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Office Hours: 3:30pm-4:30pm Monday and Wednesday; Also by appointment. Emailed questions are also encouraged.

Course Webpage: http://www.math.iit.edu/∼kaul/TeachingFall07/Math251.html
Check the course webpage regularly, especially on Monday, Wednesday, and Friday evenings, for homework assignments, announcements, and a lecture log (useful when you miss a class and when reviewing for an exam).

Tutoring Service: Academic Resource Center. Check the schedule at "http://arc.iit.edu".

Online Problem Practice: Calculus III book at COW (Calculus on Web)
"http://www.math.temple.edu/∼cow/"

Prerequisites: Math 152 Calculus II.

Course Topics: Analytic geometry in three-dimensional space. Partial derivatives. Multiple integrals. Vector analysis.
A detailed description of the lecture topics and the course objectives is available at
"http://www.math.iit.edu/academics/syllabi.html"

Textbook: James Stewart, Calculus, fifth edition, Brooks/Cole.

Grade Break-down: Homework assignments are worth 20%. Two mid-term exams are worth 25% each. The final exam is worth 30%. The grading scale will be no more strict than A:90-100, B:80-89, C:70-79, D:60-69.

Attendance and Class Participation: You are expected to attend the lectures, and participate in class discussions. Regular class participation and strong attendance will be positively considered for borderline grades at the discretion of the instructor.

Examinations: The mid-term exam dates (at the end of September and at the beginning of November) and their precise topics will be announced in class and on the course webpage. The final exam will be on all the topics covered during the semester. Make-up exams will be given only in case of a documented emergency.
An **improved performance in the final exam** (indicating better understanding of the course material over the whole semester) will help you improve your course grade. The score of one of the mid-term exams will be replaced by the (appropriately scaled) final exam score if the final exam score is higher.

Homework: Homework will be assigned after each lecture. It will be uploaded to the course webpage every Monday, Wednesday, and Friday afternoon. It is your responsibility to check the webpage for assignments and their due dates. You only need to submit the solutions to a subset of the problems (as specified on the webpage). But solving all the the problems would be greatly beneficial for your understanding and for you preparation for the exams. Answers to

odd numbered problems are in the back of the book, and complete solutions to these problems are available in the Student Solution manual.
Homework needs to be submitted in class. It should be typed or written legibly. Be sure to staple the pages together and write your name, course number, assignment number, and the date of submission on the front. Late homework will not be accepted. However, the worst homework score will be dropped.

Grading Policy: You are allowed to discuss homework problems with your classmates. However, the solutions should be written by you alone. Solutions for homework assignments, and exams must be written clearly, legibly, and concisely, and will be graded for mathematical correctness and presentation. Points will be deducted for sloppiness, incoherent or insufficient explanation, or for lack of supporting rationale. The solutions should be presented so that your classmates could read them and follow the calculations and the logic. In particular, **if the grader has trouble deciphering your writing or your train of thought, do not expect any points**.

Resources for Learning: You are encouraged to utilize the three basic resources available to you.
First, your **instructor**, by asking questions during class, or in office hours, or through email. I am here to help you learn outside the class also, but I cannot help you if you don't take the initiative.
Second, the tutors at the **Academic Resource Center** in the Galvin library.
Third, utilize the Calculus III exercise book online at the **COW (Calculus on Web)** webpage ("http://www.math.temple.edu/∼cow/") to practice problems and get immediate feedback.