

## MATH 10B-010, Calculus: Several Variables

### GENERAL INFORMATION:

Lecture (15951): MWF 8:10 AM - 9:00 AM  
Room: ENGR2 138  
Instructor: Muralee (Dr. M. Muraleetharan)  
Office: 225 Surge Building  
Phone: (951) 827-6482  
E-mail: muralee@math.ucr.edu  
Office hours: MW 1:00 PM- 2:00 PM, and by appointment

### Teaching Assistant:

KIM, CHUNGHOO:

Discussion (10B012): R 8:40 AM - 9:30 AM. Room: INTN 1006

Discussion (10B013): R 6:10 PM - 7:00 PM. Room: SPR 2356

**Textbook:** Vector Calculus by Susan Jane Colley, Third Edition.

### EXAMS AND GRADING:

Homework: 7 - 8 Homework sets  
Midterm exam: Monday 04/26/10, during the lecture.  
Final exam: Thursday 06/10/10, 7:00 PM - 10:00 PM  
Grading: The final grade is composed of:  
50% of the Final exam grade  
30% of the Midterm exam grade  
20% of the Homework

Your lowest homework score will be dropped.

The following grading scale will be used:

A student with an average of at least 90% will receive a grade of at least A-.

A student with an average of at least 80% will receive a grade of at least B-.

A student with an average of at least 65% will receive a grade of at least C-.

A student with an average of at least 50% will receive a grade of at least D-.

1. The final exam is comprehensive.
2. All exams are closed notes and books. Calculators are not allowed.
3. No make up exams - If you miss the midterm because of a documented medical situation or family emergency, the grade will be computed without taking into account the missed exam.

**COURSE OUTLINE:**

Prerequisites: MATH 010A with a grade of "C-" or better or equivalent. If you are unsure whether your background is adequate for this course, please make an appointment to discuss this with me immediately.

Topics include differential calculus, including implicit differentiation and extreme values; multiple integration; line integrals; vector field theory; and theorems of Gauss, Green, and Stokes. (Chapters 5,6, & 7 from the textbook).

**CLASS MEETINGS and ATTENDANCE:** Classes will meet four times each week. Lectures will be given on Monday, Wednesday, and Friday. Each section will meet for one discussion each week on Thursday. **Attendance is required.**

**COLLABORATION and ACADEMIC INTEGRITY:** Students are encouraged to work cooperatively on practice problems. There is quite a bit of evidence that this sort of collaboration improves performance in mathematics courses. However, all work submitted for grading must be the work of the individual submitting the work. No collaboration is permitted on work submitted for grading. Copying another student's homework is a violation of the University Code of Conduct.