Math 425- Spring 2006

Section 1. Class Nbr. 56227

Prof. Andrea R. Nahmod

- **Office**: LGRT 1338
- **Office hours**:   **Wed. 1:30-3:00pm or by Appointment**
- **Tel :**   (413) 545 6031
- **Email**: nahmod@math.umass.edu

- **Lectures**:   Tuesdays and Thursdays 1:00 pm - 2:15pm in LGRT 111
- **Book :**   Vector Calculus (Fifth Edition, 2003)   by J. Marsden and A. Tromba.
- **Prerequisites: Math 233, Math 235 or Math 236.**
- **Description:**

 This is a course on differential and integral calculus of several variables from a more advance perspective than Math 233. The main focus will be on integration over regions, paths and surfaces; the change of variables formulae and the integral theorems of Green, Gauss and Stokes.

  Knowledge of Chapters 1-4 of Marsden and Tromba is expected;
  Chapters 1-3 will be assumed. We will formally start in Chapter 4.

Homework are due on Thursdays (click for the list).

Grading Policy.   Your Course Grade will be determined on the basis of your:

(**1**) **Homework, Attendence and Class Participation: 30%**

Homework will be assigned on a regular basis and will be collected weekly. You must do all homework assigned in class. Note that NO late homework will be accepted.

(**2**) **One in Class Quizz on Thursday February 9th : 10 %**

(**3**) **One Midterm Exam : 30% (Date, time and place to be determined).**

(**4**) **A Final Exam   : 30 %**

IMPORTANT NOTE:

Due to the amount of material to be covered in this course the pace will be quite fast at times. And since later sections will depend on ideas we covered earlier, it is important not to fall behind.

You are expected to read the sections we will be covering in lecture before you come to class We will not have time to cover all the examples from the text, but you are still expected to read the whole section yourself and be familiar with it.
You are always welcome to discuss the material with me.