Mathematics 550, Vector Calculus.
Spring 2011.

Instructor: Matthew Boylan.
Office: LeConte 400G.
E-mail: boylan@math.sc.edu
Office hours: Tues., 2 - 3; Weds., 10 - 11; Thurs., 1 - 2; and by appointment.

- **Course Webpage:**  

- **Prerequisite:** Math 241.


- **Course objectives:** Students will master concepts and solve problems on vector fields, line and path integrals, orientation and parametrization of lines and surfaces, change of variables and Jacobians, oriented surface integrals, theorems of Green, Gauss, and Stokes; introduction to tensor analysis.

- **Class schedule:** You are expected to be present at all class meetings.

  - Lecture: TuTh 11:00 - 12:15 LeConte 303B

- **Homework:** Problem sets will be assigned each week and will be due the following week. They may be turned in before class or to my mailbox any time before 3 pm on the due date. **Late homework will not be accepted.** Some of the assigned problems will be graded. You will be graded on both the correctness of your solutions and the quality of your exposition (i.e., how well you write the solution). You are encouraged to discuss problems with other students in the class. **However, you must write solutions to the problems yourself (in your own words).**

- **Exam schedule:** 3 one-hour exams and a cumulative final exam.

  - **Exam 1:** Thursday February 10 11:00 - 12:15 LeConte 303B
  - **Exam 2:** Thursday March 17 11:00 - 12:15 LeConte 303B
  - **Exam 3:** Thursday April 14 11:00 - 12:15 LeConte 303B
  - **Final exam:** Tuesday May 3 9:00 - 12:00 LeConte 303B

  Missed exams will not be made up. Exceptions may be made for documented illness, family emergency, or University-sponsored activity.

- **Calculators:** Calculators (and computer software such as Maple) may be used on homework unless otherwise noted. They may not be used on exams.

- **Academic Honesty:** Cheating will not be tolerated. Honor code violations will be addressed according to University guidelines.

  For details, see [http://www.sc.edu/academicintegrity/](http://www.sc.edu/academicintegrity/)
• Other policies:

(1) **Electronic devices** such as cell phones and blackberries are to be **turned off or put on silent or vibrate mode** during class meetings. Visible use of such devices during lecture is very distracting.

(2) Quiz and exam grades may be discussed only up to 7 days after being returned.

(3) If you plan to leave class early, the correct procedure is to inform me before the lecture begins. Early departures disrupt the lecture unless this procedure is followed.

(4) **Do not be late to lecture.** If you know that you will arrive late, the correct procedure is to inform me ahead of time; students arriving late should discretely find an open seat. Late arrivals disrupt the lecture unless this procedure is followed.

• Grading:

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Letter grades will be given according to the following approximate scale:

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**Note:** The deadline to drop a course without a WF is Monday, February 28.

• Please do not hesitate to contact me at any time if you have questions or problems relating to this course. Best wishes for an enjoyable and productive semester!