Math 213, Multivariable Calculus for Scientists & Mathematicians
Vector Calculus
MW 3:30-5:20 p.m., Small Hall 233

Instructor:
Cary Humber
E-mail: crhumber@wm.edu
Office: Morton 12
Office Hours: MWTh 2-3:20 p.m.(except first week of classes) or by appt/walk-in
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Text:
The text for the course is *A Geometric Approach to Differential Forms*, David Bachman, Second edition (2012)

Topics:
1. Functions of several variables, surfaces in three-space, vectors, techniques of partial differentiation and multiple integration with applications.
2. Other vector calculus topics (including Gauss and Stokes theorems).
   Note that item 1 is the content of Math 212. This course covers the same material as Math 212, plus some very important theorems of vector calculus.

Homework:
Weekly homework sets are assigned in class. Understanding and completing the homework is essential for success in the course. Unless otherwise stated, each homework set will be due one week from the assigned date.

Tests and Quizzes:
There will be a minimum of 4 quizzes. Quiz dates will be announced in class.

Tests:
There will be 1 midterm examination which is tentatively scheduled for October 12th. If you miss an exam/quiz due to a documented illness, participation in a university sponsored event, or family emergency, you must contact me to arrange for a make up. Otherwise, no make up exams/quizzes will be allowed. The cumulative final exam will be Monday, December 12th, 9:00 a.m.-12:00 p.m.

Attendance:
Regular attendance is critical for your success in this course. If you must miss class, you are expected to get notes and missed material from a classmate.

Grading:
Your final grade is calculated as follows:
- Homework 30%
- Quizzes 20%
- Midterm Exam 20%
- Final Exam 30%

The final letter grade is assigned using the scale: A 93-100, A- 90-92, B+ 87-89, B 83-86, B- 80-82, C+ 77-79, C 73-76, C- 70-72, D+ 67-69, D 63-66, D- 60-62, F < 60

Honor Code:
Uphold William and Marys honor code as it is written; infractions are submitted to the Honor Council.