Course Description:
This course might more aptly be called “speed calculus”, because we will cover a lot of material in 13 short weeks. Our goal is to learn all the standard results for functions of several variables, and thus we will zoom through basic facts about vectors, parameterized functions, vector functions, partial derivatives and how to us, multiple integrals, and finally the famous Green’s, Gauss’, and Stokes’ theorems.

Prerequisites: Math 25 or 26, or placement by examination

Meeting Times and Location:
We will meet MWF at 10:30 am in SC 158

Instructor Information:
Office: SC 143 Phone: 610-690-7357 Email: aimee@swarthmore.edu
Office Hours: TBA

Homework: This is divided into two parts:
Webwork: this is daily homework, to be done after each class (any time before the beginning of the next class meeting). This allows for instantaneous feedback on your understanding of the basic ideas and computational ideas.
Written Homework: this will be due once a week, in class on Fridays. These problems are more indepth and more similar to those found on the exams. You may work together but the final write up must be your own. Anything else will be considered a violation of our rules and may be brought to the College Judiciary Committee.
No late homework is ever accepted.

Grading: 25% Homework (10% webwork, 15% written)
20% Exam 1 Sept 29, 7-9 pm, room 199
20% Exam 2 Nov 10, 7-9 pm, room 199
35% Final TBA
Book:
James Stewart's Multivariable Calculus 7th edition, published by Cengage Learning. It can be rented for about $50, or an ebook can be purchased for about $60.

Accommodations Statement:
If you believe that you need accommodations for a disability, please contact Leslie Hempling in the Office of Student Disability Services (Parrish 113) or email lhempli1@swarthmore.edu to arrange an appointment to discuss your needs. As appropriate, she will issue students with documented disabilities a formal Accommodations Letter. Since accommodations require early planning and are not retroactive, please contact her as soon as possible. For details about the accommodations process, visit the Student Disability Service website at http://www.swarthmore.edu/student-life/academic-advising-and-support/student-disability-service.xml. You are also welcome to contact me privately to discuss your academic needs. However, all disability-related accommodations must be arranged through Leslie Hempling in the Office of Student Disability Services.