

**Mathematics 121**  
Spring 2008  
Course Information

**Instructor:** Jeff Tecosky-Feldman, Office: Hilles 207e (610-896-1199), email:jtecosky

**Office Hours:** Mondays, Wednesdays and Fridays 4-5, Tuesdays and Thursdays 1-2 and by appointment.

**Text:** *Multivariable Calculus* by McCallum et. al, 4th ed. It is expected that you read relevant sections of the text *before* coming to class.

**Description:** Multivariable Calculus has as its goal extending the results of first-year calculus to a wider variety of functions: real-valued functions of many variables. Along the way we have to invent new kinds of derivatives and integrals, and come to a deep understanding of properties of space. This course will cover many topics of great importance in physics.

**Lectures:** MWF 10:30-11:30 in Hilles 108.

**Weekly assignments and Labs:** Assignments will be distributed via email each Fri and are due at 5pm the following Fri in a bin outside my office (Hilles 207). Late homework will not be graded, unless prior arrangements have been made. Some late homework may receive a 20% grade penalty.

**Honor Code:** For homework problems, discussion with other students in the class or with me is highly encouraged, e.g., in Math Question Center, my office, or elsewhere. Please indicate on your homework who your collaborators were. *Please see <http://www.haverford.edu/math/collaboration.html> for discussion of appropriate modes of collaboration on homework.* The short version is that the actual writing of the assignment should be done individually, without using detailed notes from your collaborative discussions, so that it represents your personal understanding of the problems. For the midterms and final, no collaboration is allowed. You may ask me for clarification of the questions on tests, but I will not give suggestions about the actual solutions.

**Math Question Center:** Hilles 11 will be open Sundays through Thursdays, 7-9 PM, to provide a gathering place conducive to working on math assignments. Computers with Mathematica will be available. Math department faculty and student assistants will be on hand for answering math questions, dispensing hints, and coaxing output from recalcitrant computers.

**Exams and Grading:** There will be three exams during the semester (one in-class and two take home) and a cumulative, three hour self-scheduled final exam. The course grade will be computed out of a total of 350 points using approximately the following weighting system:

- 150 points for the three semester exams
- 150 points for the final exam
- 50 points for the written homeworks and labs

**Computers:** You should become familiar (as soon as possible) with the following resources:

1. **Mathematica.** This is a computer program that can do ALL of the computations required in multi-variable calculus (as well as lots of other neat things). Information on how to learn Mathematica will be forthcoming.
2. **Blackboard.** Please learn to use as soon as possible. I will be posting the weekly homework problems, solutions, and other important documents on our course's blackboard site.

**Enjoyment:** You are expected to enjoy the course!

Students who think they may need accommodations in this course because of the impact of a disability are encouraged to meet with me privately early in the semester. Students should also contact Rick Webb, Coordinator, Office of Disabilities Services (rwebb@haverford.edu, 610-896-1290) to verify their eligibility for reasonable accommodations as soon as possible. Early contact will help to avoid unnecessary inconvenience and delays.