Course: Mathematics 223 - Calculus III  Fall 2003

Instructor: Dr. Elyn Rykken  
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Meeting Place: Trumbower 149

Meeting Times: 11:30 - 12:20 MTRF

You will be expected to read and work through some of the exercises in this book on your own.  

Bring your textbooks to class.

Required Calculator: You will need a graphing calculator. We will be using Texas Instruments' TI-83 for in-class demonstrations. If you are buying a new calculator for this course, we strongly recommend the TI-83. We should be able to accommodate TI-85's and TI-86's without too much difficulty. TI-89's and TI-92's will not be allowed for exams.

Course Description: This is the third course of a three-semester calculus sequence. The prerequisite is M122 or placement by examination. Much of this course focuses on extending techniques from one-dimensional calculus to multivariable calculus – including limits, continuity, derivatives, finding maxima and minima, integrals, and finding volumes. We will discuss parametric equations, vectors, curves and surfaces in space, line integrals, Green’s theorem, the Divergence theorem and Stokes’ theorem. We will cover most of the book with the exception of Chapter 11.

Grading Criteria:  
First exam    Sept. 12   12%  
Second exam   Oct. 3   12%  
Third exam    Oct. 31   12%  
Fourth exam   Nov. 21   12%  
Quizzes       8%  
Homework and Maple labs (due Tuesdays and Fridays) 20%  
Final (time and date will be announced later) 24%
Note: All examination dates except for the final are approximate and are subject to change with warning. Please note that all students must be available until 3:00 PM on Friday, December 12th to take their final exam. Please make appropriate travel arrangements. No one will be allowed to switch the time or date of the final because of travel/ride conflicts. The only valid reason to change a final exam is a documented conflict with another final scheduled at the same time.

E-mail: You are required to have an e-mail account for this course. I will use it to relay messages about the course. Please see me if you have questions about how to acquire a Muhlenberg account. You may also use a non-Muhlenberg account.

Attendance and Class Participation: Attendance will be taken at each class meeting. Students are expected to attend and participate in class. Students are expected to come to class on time. Coming late to class is disruptive and discourteous to the other class members. Students should see me if they anticipate this being a problem. You will be held responsible for the material discussed in class whether present or not. I reserve the right to use attendance and class participation as a factor in borderline grades. ATTENDANCE AT ALL QUIZZES AND EXAMS IS MANDATORY. Absence from a scheduled quiz or exam for a valid reason (e.g., prolonged illness with a doctor's excuse or required participation in a sanctioned off-campus school event) must be cleared with me IN ADVANCE. The following are NOT valid excuses: other exams scheduled the same day, pressure from other classes, a flat tire, over-sleeping, early departure from campus, unpreparedness, "I forgot."

Quizzes: Quizzes will be given almost every week. The lowest quiz will be dropped. For this reason, there will be no make-ups for the first quiz that you miss regardless of the reason.

Homework and Projects: Homework and projects can be done in groups. Each homework group must have at least two (preferably three) and no more than four members. Members of the group will rotate writing up the final version. Usually, Monday and Tuesday's homework will be collected on Friday and Thursday and Friday's homework will be collected on Tuesday. Working on the material every day will be very helpful. No late homework will be accepted without a valid excuse.

Learning Disabilities: If you have a diagnosed learning disability and will need special arrangements either on a daily basis or for exams, please bring me a letter from Academic Support as soon as possible to confirm your need for accommodations. This includes a need for extra time on exams.

A reminder: At Muhlenberg we follow the Academic Behavior Code. Please be sure to read it carefully. It is available online at http://www.muhlenberg.edu/mgt/deans/abc_statement.html. Specifically, for your homework and labs, the work must be your group's work. You are allowed to attend workshop and receive help, but you must have attempted the problem. You are not allowed to copy from other groups or any other sources.