

Math 203 – Calculus 3

Block 1 2002

Course Procedures

Professor: Josh Laison
Palmer 140
x6544
jlaison@coloradocollege.edu

Class Meetings: Palmer 230A
9:30-10:30 AM, 1:00-2:00 PM, Monday through Friday

Paraprofessional: Yoko Shimizu
Palmer 130
x6747

Problem Sessions: 2:00-3:00 PM, Monday through Thursday

Office Hours: 10:30-11:30 AM, Monday through Friday, 1:00-2:00 PM Sunday

Text: Calculus, Early Transcendentals, 4e, James Stewart, OR
Multivariable Calculus, 4e, James Stewart

Grading:

Homework Assignments (16)	15%
Break Work (16)	15%
Group Projects (3)	15%
Midterm Exams (2)	30%
Final Exam (1)	20%
Class Attendance and Participation	5%
Total	100%

Material Covered:

We will cover most of chapters 12, 13, 14, and 15, and some of chapter 16. The material of this course is the same as the material in Calculus 1 and 2, but in a multivariate setting. The material will be broken up roughly into the following topics: Chapters 12 and 13 cover vectors and some types of vector functions. Chapter 14 covers the derivatives of multivariate functions (as we shall see, *derivative* means more than one thing in this course). Chapters 15 and 16 cover integrals of these functions (again, there are many types of multivariate integrals).

Homework Assignments:

Homework will be due every day at 4:30 PM. You should look at and work on *all* of the homework problems, however, only the underlined ones will be graded and commented on. The homework problems will be graded as follows:

Mostly correct, one or two minor errors:	2
Partially correct, some effort made:	1
Mostly incorrect, little or no effort made:	0

I encourage you to talk to me, to Yoko, and to each other about the homework problems. Please make heavy use of the problem sessions and my office hours. However, I ask that when it comes time to write down your solutions to the homework problems, you do so on your own. Failure to do this constitutes a violation of the honor code (see below). Also, for purposes of academic integrity, please list those persons you talked to about the homework on your homework paper. *This will have no effect on your grade.* It is just a good habit to get into. Some people might consider not doing this an act of plagiarism.

Break Work:

At or near the end of every morning class, I will give you a short assignment to complete by the afternoon class. These assignments will help firm up your understanding of the morning's class and frequently will lead into the afternoon topic. I will begin many afternoon classes with a discussion of these assignments. I do not expect these assignments to take up a large portion of your time. Break work will be due every day at 1:00 PM. Please make a separate copy to refer to in class. Break work will be graded on the same scale as homework assignments and the same comments about collaboration apply.

Group Projects:

Multivariable calculus has important applications to many fields outside of mathematics, and the ability to apply what you learn in this course to a problem outside of mathematics is a skill you should have at the end of the block. In addition, good writing skills are essential to almost all successful mathematical pursuits.

The group projects will focus on improving your skills in these two areas. Be sure to write in complete sentences, and explain all accompanying mathematics and computer computation in a clear, concise, and convincing manner. Your grade will be based on both presentation and mathematical correctness. For each of these projects you will be working with two partners. Your group will turn in a single project and each member of the group will receive the same grade.

Late Assignments and Missed Classes:

1. Do not turn in late assignments.
2. If you turn in late assignments, I will not accept them.
3. Do not miss class.
4. If for some reason you are absolutely unable to attend class (eg. triple bypass surgery) you should notify me as soon as you are aware that you intend to miss class, and make arrangements with me to turn in your work ahead of time.

5. If you wait until the following class to tell me why you have missed class, or did not turn in an assignment on time, I will have little sympathy for your plight.

Midterm Exams:

The two midterm exams will be timed, closed book, and closed colleague. However, they will not be in class. I will give each exam out on a Friday and collect it on a Monday, and ask that you set aside a block of time sometime during the weekend in which to take the exam.

Exam 1: Friday, September 6 – Monday, September 9

Exam 2: Friday, September 13 – Monday, September 16

Final Exam:

The final exam will be in class on Wednesday, September 25, at 9:30 AM.

Honor Code:

on homework and break work: You may, and are encouraged to, discuss the homework and break work with anyone, get help from Mathematica, graphing calculators, your textbook, etc. However, your submitted written work should be your own.

on group projects: The members of the group should contribute equally to producing the final product. Do not put your name on a paper written by others.

on exams: Do not solicit or receive aid from any living being, written material, or electronic device.