

MT202 Multivariable Calculus
Fall 2011
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<http://www2.bc.edu/daniel-chambers>

Multivariable calculus has a rich history, interesting mathematics, and many applications. In this class we will explore all of these. Topics include vectors and vector valued functions, functions of several variables, multiple integrals, and vector calculus.

The text we'll use is **Multivariable Calculus, 2nd edition, Wiley; ISBN: 978-0-470-45359-9**, by Brian Blank and Steven Krantz. We'll cover most of the book. The BC bookstore will have the book available. Alternatively, you may be able to purchase an electronic copy of the book directly from Wiley, though this is uncertain at the moment.

How to reach me: my office is 365 Carney; 2-3769; email is probably the most reliable method of reaching me.

Office Hours: M2-3, W10-11, F3-4, or by appointment.

Calculator: A graphing calculator will be needed for homework and exams. Calculators that perform symbolic integration such as the TI-89 and TI-92 will not be allowed on exams, nor will sharing of calculators on exams.

Homework will be assigned daily. It will be collected, graded, and returned. The problems assigned will be a mixture of routine, straightforward problems that test basic understanding of the material as well as more challenging problems. I will return correct solutions with your papers and you should look over any mistakes and make sure you understand the solution. If you are having trouble with the homework problems, I'm available for assistance and hints. Late homework will generally not be accepted. You may discuss problems with others, but your write up should be your own. Please use standard-sized paper (not ripped from a spiral notebook) and make sure to staple- no paper clips or folded corners.

Class attendance: **attend!** Attendance is very important, as is careful note-taking. There will sometimes be gaps in what I present, such as: "Finish the problem yourself later;" do so. I welcome questions in class.

Exams: there will be three semester exams and a cumulative final. You are only allowed a make-up for a missed exam for a serious reason. If you must miss one, please clear it with me beforehand. Tentative exam dates are: Wednesday, September 28; Friday, October 28; and Tuesday, November 29. If these need to be adjusted, I will give you plenty of warning. The final will be held on Saturday, December 17 at 12:30 pm.

Semester grades will be based on homework (15%), semester exams (20% each), and final exam (25%).

Class website: is at www2.bc.edu/daniel-chambers and follow the link to MT202. This will contain the homework assignments and solutions, as well as occasional handouts and other information.

Finally, make sure your work is your own (see above for homework collaboration). Academic honesty is essential and cases of cheating will be taken seriously. University procedures will be followed for any infractions; see www.bc.edu/integrity for these.