

Math 20a: Calculus of several variables

Fall 2006

Instructor: Prof. Ivan Horozov

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Office: Goldsmith 205

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Class schedule: Mon Wed Thu 9-10 Goldsmith 317

Office hours: Monday 10-11am, Wednesday 2-3pm Thursday 10-11am, and by appointment

Textbook: Multivariable calculus (5th edition) by James Stewart (ISBN 0-534-39357-8)

Class email list: I make extensive use of the class e-mail list to communicate with the entire class. If you have multiple email addresses, please make sure that I have the one that you consistently check. Please be careful when replying to the message so that you don't inadvertently direct a message meant for just me to the whole class.

Calculators and other technology: There is no official requirement to use graphing calculators or computer algebra systems in the course. However, you are welcome to do so in doing homework. **You may not use a calculator on exams or quizzes.**

Syllabus

Chapter 11 Parametric equations and Polar coordinates

Chapter 13 Vector in 3-dimensional space, surfaces

Chapter 14 Vector functions (parametrized curves) in 3-space

Chapter 15 Functions of several variables, derivatives, linear approximation, maxima-minima

Chapter 16 Multiple integrals of functions of several variables, volume, surface area

Chapter 17 Vector fields, line and surface integrals

Exams, homework and grading

There will be 1 in-class midterm exam, 4 half-hour in-class quizzes and a 3-hour final exam. The schedule for these events will be posted shortly or send via class e-mail list.

Homework will be assigned and collected weekly and will be graded and returned to you.

Assignment will be posted regularly on the class web page or send via class e-mail list; solutions will be posted a few days after the homework has been passed in.

Grading formula:

Homework – 20%

Quizzes – 20%

Mid-term – 20%

Final exam – 40%

Students with disabilities: If you are student with a documented disability on record at Brandeis University and wish to have a reasonable accommodation made for you in 20a, please see me as soon as possible. Note that accommodation for an exam or an assignment cannot be made retroactively.