

MULTIVARIABLE CALCULUS (MATH 110.202)

Instructor: Giovanni DI MATTEO

Text book: Jerrold E. Marsden & Anthony Tromba, *Vector calculus*, sixth edition.

Course webpage: <http://www.math.jhu.edu/~dimatteo/Multivariable-calculus.html>

ABOUT THIS COURSE

Topics. Calculus of functions in several variables: geometry of \mathbb{R}^n , limits, partial derivatives and applications, multiple integrals, change of coordinates, line and surface integrals, Green's Theorem, Stokes' Theorem, and Gauss' Divergence Theorem.

Prerequisites. The prerequisite for this course are Calculus II or 110.113, or a 5 on the Advanced Placement BC exam.

Dates. The course runs from 3 July to 5 August, meeting Monday through Thursday from 1pm to 3:30pm. There will be no lecture on 4 July.

EVALUATION

There will be regularly assigned homework, which students are expected to write up and submit. Your lowest homework score will be dropped. No late homework will be accepted. There will be two midterm exams, and one final exam; your work will be weighted as follows:

- (1) Homework: 10%,
- (2) Midterms: 25% each,
- (3) Final exam: 40%.

The first midterm will be held on 10 July, the second midterm will be held on 20 July, and the final exam will be held on 3 August.

ETHICS

It is in your own best interest to conduct yourself honestly in your work. Cheating on homework (for example, by copying solutions from online sources, or from friends) robs you of the opportunity to receive comments on how you understand the subject; to understand new, complicated material, it is important to be honest about what you think you understand, so that errors in thinking can be identified and dealt with quickly. Academic dishonesty may win a short-term goal of scoring a few points on homework, but in exams and in the final you will need to rely on the understanding that you have cultivated through weeks of careful thought.

Moreover, the University has strict rules in place for dealing with cheating. The university will punish cheaters with failure on an assignment, failure in a course, permanent transcript notation, suspension, and/or expulsion. Offenses may be reported to medical,

law, or other professional or graduate schools when a cheater applies. Details on the university's policies on cheating can be found the student life handbook.¹

SPECIAL ASSISTANCE

If you are a student with a disability or believe you might have a disability that requires accommodations, please contact Dr. Brent Mosser in Student Disability Services. Please inform the instructor of your disability so that accommodations can be made.

¹See <http://e-catalog.jhu.edu/undergrad-students/student-life-policies/>