

## 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 of more than one variable: partial derivatives, and applications; multiple integrals, line and surface integrals; Greens 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.

### EVALUATION

There will be weekly homework assignments, two midterm exams, and one final exam. Your lowest homework score will be dropped from calculation. No late homework will be accepted. Your final grade will be calculated with the following weights:

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

The first midterm will be held in class on . The second midterm will be held in class on . The date of the final exam will be announced later. The final exam will be comprehensive.

### 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.<sup>1</sup>

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

### 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.