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Course Objective

Our objective this quarter is to make the leap to multivariable calculus. We will make progress principally by adapting techniques familiar from single variable calculus, then by using these adapted techniques to solve some complex and applied problems that would be heretofore difficult or impossible. The only prerequisites for this course are good algebra skills, command of single variable calculus, a mind open to new vistas, and an appreciation for the fruits of hard labor.

Methodology

Our high ambitions will necessitate various vehicles for progress.

1. Discussion. Class time will be spent discussing and working on mathematics. Your engagement in the discourse is vital. You may be called upon to offer your thoughts or work a problem at your desk. You will get out of class only what you put in.

2. Homework. Homework is suggested nightly out of the book. Each Friday, a custom made assignment will come out to be done over the weekend and turned in on Monday in class. These weekly homework sets will reflect what you have been working on out of the book leading up to that Friday, so it is important to give each suggested book problem due attention in order to prepare for your weekend assignment. “Feast or famine” is not the proper course here. Consistent and careful consideration of the homework is the surest path to success.

3. Examination. There will be two midterms and a final exam at the end of the quarter.

4. Query. Two students will be drawn randomly for a daily query at the beginning of each class.

Ethos

Our guiding belief is that we have reached a defining moment in our mathematical education. The development of calculus is one of the greatest intellectual achievements in the history of humankind. True understanding will come only to those who vigorously seek it. We are here to become the thinkers and students we have always wanted to be.
Office Hours

Our in-class discussions will likely be the proverbial “tip of the iceberg.” To facilitate sustained mathematical discussion, there will be additional times to interact throughout the week.

- M 9:10-10:00.
- T 2:10-3:00.
- W 9:10-10:00.
- R 9:10-10:00
- By email and by appointment.

Exam Dates

1. Midterms:
   - Exam 1 Friday, April 22nd
   - Exam 2 Monday, May 16th

2. Final Exam:
   - 241-04: Friday, June 10th, 10:10am-1:00pm
   - 241-08: Friday, June 10th, 1:10pm-4:00pm

Grading

Course grades will be calculated as follows:

- Query (5%)
- Homework (20%)
- Midterm Exam (2 x 20%)
- Final Exam (35%)

Academic Integrity

It is my opinion that there is hardly any human act more satisfying or important than the sharing of knowledge. I therefore consider the classroom and the university at large to be hallowed ground, well deserving of all the humility and respect that we would afford our other most sacred places.

Please refer to the University’s policy on cheating and plagiarism found in the Campus Administration Manual, Section 684.

In short: be sensible, respectful and mindful of the integrity of the system we are all so lucky to share.