

## **MATH 213-006, Fall 2017**

### **Multivariable Calculus**

#### **Logistics**

Class location: Robinson Hall A247

Class Meeting Times: Mon/Wed 7:20-8:35pm

Instructor: Dr. Rebecca Goldin

Office: Exploratory Hall, Room 4214

Office Hours: Mondays 5:45-6:30 and Wednesdays 6:30-7:20 and 8:35-9:00pm, and by appointment

Phone: Nope! The best way to reach me is by email.

Email: rgoldin@gmu.edu

Your TA: Duy Nguyen

Office-Hour: Tuesday/Thursday 9:45-10:45am. Exploratory Hall 4462

Office Location: Exploratory Hall, Room 4462.

Your LA: Madeline Horton

Office Hours: Varies; Typically Wednesday 2-4pm

#### **Prerequisite**

C or better in Math 114 or equivalent. If you earned a C in previous calculus classes, you will find this course extremely difficult. Earning a B or better from prerequisite courses is recommended.

#### **Text**

Calculus: Early Transcendentals, by: Briggs & Cochran (2nd edition). *We will not be doing online homework.*

#### **Course Content**

We will roughly cover material from Chapters 11-14 in this text. I will alert you to more details or skipped sections as we go forward.

#### **Philosophy**

You are in charge of your own learning. I will certainly guide you, but you will not be lectured on many topics that you are responsible to learn. The best way to learn is to: read the text; engage with hard ideas about what mathematical tools you should use and when; do the assigned homework and a few extras if you don't feel comfortable; and test yourself through closed-book scenarios.

## **Important Dates**

Mark your calendar!

### **Schedule changes:**

No Class: Monday, September 4 (Labor Day)

Different teacher: Wednesday, September 6 (Dr. Goldin is at a conference)

No Class: Monday, October 8 (Columbus Day)

Yes Class: Tuesday, October 9

No Class: Wednesday, November 22 (Thanksgiving)

### **Exams:**

Should-I-Drop Exam: Date is TBD. The course drop date is September 29.

Midterms 1 and 2: Dates are TBD

Multivariate FTC: Date is TBD.

Final Exam: Wednesday, December 13, 2017, 7:30pm-10:15pm (definite)

There are no make-up tests allowed unless you have an extremely serious and well-documented excuse. You must see me in advance if at all possible, such as a religious reason. If this is not possible due to the nature of the event, you must provide written documentation, such as a dated and timed letter from a doctor/hospital in the case of medical excuse, a death certificate in the case of a family death, etc. A flat tire or car trouble is NOT a valid excuse. Oversleeping is not an excuse. Minor medical difficulties such as a headache or flu that does not require being in the doctor's office is not an excuse. A court date to dispute a ticket is not an excuse. If you are not sure if your reason is excusable, and/ or if you can possibly make it to the exam but it's inconvenient, then it is not an excuse.

### **Homework**

Homework problems will be assigned regularly, and you may ask questions about homework either during recitation or during class. Homework is graded on the basis of effort, and you will do poorly on the exams without the homework.

### **Exams**

There will be two minor exams, the "Should I Drop Exam", and the "Multivariable FTC Exam", and two major exams (Midterms 1 and 2). The exact dates and venue will be announced in class.

### **Mastery Points**

Back by popular demand! Mastery Points are an extra credit program to boost exam scores. These extra credit points are generally earned during the LA and TA office hours. More details will be provided in class. Mastery points will begin after the Should I Drop Exam.

## **Grading**

Your grade for the course will be calculated based on participation worksheets (10%), Should I Drop Exam (10%), Midterms 1 and 2 (20% each), the Multivariate FTC Exam (10%) and a final exam (30%). There is no change of scale on homework, however exams may have a curve. You will be notified of this scale after each exam. I do not curve to meet the class average; I curve because the exams are challenging.

I reserve the right at my discretion to increase your grade slightly. I will not decrease your score unless I find a violation of class policy or honor code. However, there is no sympathy for students who do not come to class, do not read in advance, or do not do the homework! Make-up tests are given only in extraordinary situations that require written proof. Solutions will be posted online as soon as possible.

## **Disability statement**

If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Resources at 703.993.2474. All academic accommodations must be arranged through that office.

## **Honor Code**

The University Honor Code is to be followed at all times. Sharing information of any kind about exams or quizzes is prohibited. Any violations will be sent to the Honor Committee and will result in a grade of zero. See the University Honor Code.

## **Tutoring Center**

The Math Tutoring Center is located in the Johnson Center Room 344. Help is available on a walk-in basis. For hours of operation see <http://math.gmu.edu/tutor-center.php>

## **General Remarks**

Please be considerate of other students.

NO LAPTOPS ARE ALLOWED IN THE LECTURE HALL. If you have a specific need, please see me to discuss. I will call you out in class if you have a laptop or a cell phone which you are using during class time. Please turn off your cell phone before class. Please close your tablets unless you are using them to take notes.

Please get to class on time. If you must arrive late or leave early sit in the back or near the door to minimize the distraction.

My responsibility as the instructor of this course is to answer questions and organize the material in a logical manner to facilitate learning. Your job as the student is to learn the material! You do this by attending class, paying attention, doing homework, resolving questions about the material, and studying. My expectation is that you are working approximately 10 hours each week outside of class on the material related to this course.