Math 111 Syllabus

Instructor: Anastassia Etropolski  
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Office: MSC N404  
Class Time: MWF 9:00 - 9:50  
Classroom: MSC W304  
Office Hours: Tu: 4 - 5:30, F: 11 - 12:30  
Textbook: Stewart, Calculus Early Transcendentals, 7/e  

Class Webpage: www.mathcs.emory.edu/~aetropo/111F13.html

Course Aims

This course is an introduction to the basic ideas of differentiation and integration of functions of one variable. One aim of this course is to understand that sentence. Other topics include exponential and logarithmic functions, limits, tangent lines, integration and some applications to physics and economics.

The idea of calculus is almost playfully simple: understand things that seem incomprehensible, although intuitive, by approximation. As an example, think of a graph, any graph, and imagine zooming in on one point. That point has no dimensions (no length, no width), yet we see it. If it were not there, we would see a hole. In order to grasp properties of what happens at that point, we need to look around it, and make guesses, and then make our guesses closes and closer to the truth. Don’t worry, all of this will be made precise soon.

Homework

Homework will be assigned weekly and will be collected on Wednesdays. Homework is graded out of 10 points. For each day that a late assignment is not turned in, you will be penalized one point. Homework turned in after solutions are posted will not be accepted for credit. Solutions will typically be posted within a few days after the due date. You may make corrections to your homework and turn them in before solutions are posted to improve your grade. This is a good exercise in general and will greatly improve your understanding of the subject. There will be 11 assignments in total, and the lowest homework grade will be dropped.

In addition to the homework I collect, there will be practice problems. You are strongly encouraged to do all of the practice problems so that you can keep up with the class. These practice problems will give you a good idea of what to expect on the exams, and you should revisit them while studying. The purpose of the homework is to encourage deep thought about the concepts we will be learning, as well as to master the techniques. You are encouraged to work with others, but you must write up individual solutions in your own words. Believe it or not, math is inherently cooperative! Experience it together!

Exams

There will be two midterm exams and a final exam. The midterm exams will take place on Wednesday, October 9th and Wednesday, November 13th during our normal class time. The final exam will take place from 11:30 - 2:00 on Monday, December 16th. Please be sure to make your travel plans accordingly. The midterm exams will not be cumulative, but the final exam will cover material from the entire semester.

There will be no makeup exams without proper documentation (see Attendance below).
Grading Policy

The grading scheme is as follows:

- Homework: 20%
- Midterm Exams: 50%
- Final Exam: 30%

Course Policies

Attendance: There will be no penalty for absences, although inquiries will be made if poor attendance is coupled with poor academic performance. Examinations may not be made up without express permission from the administration. Any student wishing to have their absence excused should go to the Office for Undergraduate Education in 300 White Hall. You should contact me before missing an exam if at all possible.

Calculators: Calculators will not be necessary for any of the examinations, and therefore will not be allowed during those times. You will also not need a calculator for the homework, and should avoid the temptation to use one.

Laptops: Laptops are allowed so long as they are used solely for course-related matters. Any indication otherwise will cause the privilege to be revoked. Students using laptops to take notes should sit in the back of the class, so as not to distract the other students. Laptops as well as cell phones of any kind are not permitted during examinations.

Honor Code: All students must abide by the Emory Honor Code. In particular, students must work alone on examinations and turn in homework that they have completed entirely on their own (although, again, I would like to emphasize that you may work out the problems with others before writing up the solutions). Any honor code violation will be reported.

Resources

Extra Help: Students in need of extra help should feel free to contact me or attend my office hours. If additional help is desired, students may make use of the Calculus Help Sessions held Tuesday through Thursday from 5:30 - 7:30 in W302. Tutors are also available through EPASS.

Office Hours: There will be two sessions of office hours a week in MSC E406, which are listed at the top of the page. Note that this is not my office, but rather a classroom across from the front desk on the 4th floor. The idea is that you should come if you’re able, even if you don’t have specific questions, and work together on the homework. I will be there to help, and also to offer one-on-one attention if necessary. If you require more personal attention, then please talk to me about setting up a separate time to meet. Also, we live in the age of computers in our pockets, so e-mail me questions if you get stuck and I will do my best to guide you.

Course Webpage: I want to emphasize that all information relevant to this course will be posted to the webpage. I encourage you to check it regularly for homework postings, solutions, and other resources, as well as any changes to my office hours.

Comments and Concerns: Do not hesitate to come to me with any feedback about my teaching, as well as comments and concerns about the course. If you do not feel comfortable coming to me, please contact the Math 111 Section Leader, Steven La Fleur, at slafleu@mathcs.emory.edu.