Math 111: Syllabus

Instructor:	Robert Lemke Oliver	**Email:**	`rlemkeo@emory.edu`
Classroom:	MSC W302	**Class Time:**	MWF 2:00-2:50
Office:	MSC W413	**Office Hours:**	By appointment, and TBD
Textbook:	Stewart, Single Variable Calculus, 7th ed.		

Website: `http://www.mathcs.emory.edu/~rlemkeo/teaching/`

Course objectives: Calculus I is concerned with limits (evaluating limits, continuous functions), derivatives (product and quotient rules, chain rule, implicit diffentiation), and integrals (definite and indefinite integrals, anti-derivatives, u-substitution), as well as their applications (max-min problems, optimization, related rates, area, volume). Students will become proficient with different methods for evaluating each and will be able to recognize them when they arise.

In addition to mathematical content, this course will teach students valuable problem solving and studying skills. Students are also encouraged to work in groups on out-of-class assignments, developing their communication and teamwork abilities.

Grading: There are two main components of your grade: Quizzes/Worksheets (20%) and Exams (80%).

Homework: After each lecture, there will be a number of problems assigned from the textbook. These problems will not be collected or graded, but should be considered required. Quiz problems will be taken mostly from the assigned homework.

Quizzes and Worksheets: *Quizzes:* Every Friday, there will be a four problem quiz, three problems coming from homework problems assigned during the past week, and one problem on any material covered so far in the course. Each quiz will be fifteen minutes and worth 20 points, 5 for each problem. As they are in class, quizzes are to be done individually. Calculators and other such aids may not be used on a quiz. A missed quiz will count as a 0. ***There will be no makeup quizzes.***

Worksheets: On occasion, there will be assigned worksheets to be done at home. These worksheets will each be worth 20 points, and will be counted as a quiz in your grade. Each worksheet will generally be due in class one week after it is assigned. Students are encouraged to work together on these worksheets, but everyone must write up and turn in their own copy. A missed worksheet will count as a 0; a late worksheet may be turned in any time before solutions are passed out, and will be counted for half credit.

At the end of the semester, the lowest two quiz/worksheet grades will be dropped.

Exams: There will be two midterm exams and one final. Each midterm will be worth 25% of the final grade, the final will be worth 30%. Calculators may not be used on exams.

Midterm exams: The dates for the midterms are **September 28th** and **November 2nd**. Midterms will be taken during regular class times. *Students who will be unable to take an exam on either of these dates must let me know well in advance – more than one week – so that accommodations can be made.* The midterm exams will not be cumulative, although students should be aware that calculus, and math in general, builds upon itself, so concepts and techniques from previous sections may still arise.

Final exam: The final for this class will be on **Tuesday, December 18th** from 8:30 to 11:00 AM. *Students must be present at that time for the final.* Department policy prohibits students from taking the final exam at a different time. Travel plans – including purchased plane tickets – are not a valid excuse. The final will be cumulative.

Calculators: Calculators will not be necessary for this course. Indeed, they may not be used on in-class exercises such as quizzes and exams. Homework and quiz problems will be chosen so that calculators are not

required. If students wish to use a calculator on homework or worksheets, they may do so, provided they remember that they would not be able to use it if the problem were to come up on a quiz.

Laptops: Students are permitted to use a laptop computer to take notes in class. However, as laptops often create a distraction for nearby students, students wishing to take notes on a laptop are asked to sit in the back of the class.

Getting Help: Students are encouraged to attend office hours if they have questions or to contact me via email (although please allow up to 24 hours for me to get back to you). In addition, there are calculus help sessions every Tuesday, Wednesday, and Thursday from 5:30 to 7:30 PM in W302. Tutors are also available through EPASS.

Students with Disabilities: Students with disabilities must go through the Office of Disability Services. If you have done this and have a letter, you should see me as soon as possible so that we can make the appropriate arrangements.

Comments: If you have any comments or concerns about class, please don't hesitate to contact me. In addition, I welcome feedback on my teaching. If you have comments about how you feel I could improve the class, please let me know. If you have comments or concerns that you do not feel comfortable sharing with me, please contact Dr. Powers in the math department.