

MATH 210: CALCULUS I

COURSE SYLLABUS: FALL 2014

Instructor: Li-Mei Lim **Office:** Hall College Center
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COURSE DESCRIPTION

Calculus I is a first course in calculus of one variable. Calculus is a beautiful and useful subject concerned with trends and rates of change. Topics in this course include limits, the derivative, the integral, the Fundamental Theorem of Calculus, and techniques of differentiation and integration.

We will make an effort to connect the course to applications and real-world problems, and emphasis will be placed on the problems which motivate the development of calculus, with careful and logical development of the concepts and methods used to solve these problems. In addition to being able to solve problems, students are expected to read the text and write clearly about the material.

TEXTBOOK AND TOPICS

Our textbook is *Calculus: Single Variable (Early Transcendentals), Second Edition* by Jon Rogawski. We will roughly cover chapters 1 through 5.

REQUIREMENTS AND GRADING

- **Homework:** Homework will be given daily and will be due at the beginning of each class. Homework will consist of two parts: “new problems” and “rewrites.” New problems will be given every day, while rewrites will be done weekly (due Mondays). Of the 5-10 new problems assigned each day, 2-4 of them will be graded for completeness (with some comments provided). Problems recommended for rewriting will be indicated, and you should choose from these when doing rewrite assignments. Rewritten problems will be graded on a 0-4 scale.
- **Manuscripts:** Manuscripts are larger writing assignments. There will be three manuscripts assigned this semester, due in class on *Sept. 17*, *Oct. 24*, and *Dec. 3*.
- **Exams:** There will be five exams: four in-class exams and a final. In-class exams are tentatively scheduled for *September 12*, *October 3*, *October 31* and *November 21*.

Final grades will be determined using the following breakdown:

Homework	10%
Manuscripts	15%
In-class Exams	50%
Final Exam	25%

ATTENDANCE AND LATE WORK

Attendance is considered an integral part of the class, and in accordance with college policy, a student will receive a warning after a third absence and is subject to suspension after the fifth absence. Please note that habitual tardiness may be counted as an absence. If an absence is anticipated for illness or religious reasons, the instructor should be notified in advance.

Late manuscripts will be penalized 5% per day late and will not be accepted more than a week late. Late homework assignments will not be accepted without prior notice. Make up exams are never guaranteed and must be requested in advance. You are always welcome to turn assignments in early.

CLASSROOM AND OFFICE HOURS ETIQUETTE

Please be respectful of the entire class and come to class on time. Cell phones, laptops, etc. should be turned off and put away during class as they are a distraction.

Office hours are times when I am guaranteed to be in my office and available to discuss the course with you. You are welcome to contact me to schedule an appointment outside of office hours, but if you just show up to my office with no appointment, there is no guarantee that I will be there or have time to talk to you.

EMAIL

You may email me with questions or to request appointments to meet. Please allow 24 hours for a response before emailing me again; I will try to respond promptly, but I do not check email obsessively. Keep this in mind if you are emailing about something time-sensitive. In addition, keep in mind that communicating math via email is difficult, so it is usually best to reserve math questions for office hours or other in-person appointments.

DISABILITY SUPPORT

If you are a student with a disability seeking reasonable accommodations in this course, please contact the instructor or Jeannie Altshuler in the Win Student Resource Commons.

ACADEMIC HONESTY

Collaboration on problem sets is encouraged, but solutions must be written up individually and you should understand everything you submit. Books, notes, calculators, and other aids will not be allowed on any exams. You are expected to follow all college policies regarding Academic Integrity. Any form of cheating on an assignment or exam will result in a grade of zero, and serious offenses may result in automatic failure for the course, in accordance with college policy.

GETTING HELP

To get the most out of this class, it is important that you ask questions when you have them and get all the help you need. Here is a list of suggestions and resources.

- **Ask questions during class.** You are strongly encouraged to ask questions during class. Don't be afraid to look stupid; chances are someone else has the same question.
- **Come to office hours.** Office hours are great for getting more one-on-one help. Come ask questions about homework, past exams, or topics from class.
- **Read the textbook.** The textbook is filled with examples. Maybe one will answer your question. When reading, try taking notes, highlighting, and writing down questions to ask in class or in office hours to make the most of your time.
- **Take advantage of tutoring.** Our class tutor will hold review sessions once a week. You are encouraged to go and ask any questions you might have. You can also go to Think Tank Sundays, Tuesdays, and Thursdays from 7-10pm in the Informal Lounge of the Student Union, where math and science tutors will be on hand to help you out. It's a great place to do homework or study, whether or not you have a question. You can also sign up for individual tutors. Ask for more information.
- **Form study groups.** Your peers are a wonderful resource. Explaining your work to others will help you to learn the material better, while helping your classmates too. It's win-win! Just be sure to write solutions up on your own.