Math 151: Calculus 1, Section 1
Fall 2012
Syllabus

Instructor:	Prof. Goldstine (rhymes with "line")
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Phone:	x4366
Office:	Schaefer 171
Office Hours:	Tuesday, 1:30–2:30 PM; Thursday, 9:00–10:00 AM; Friday, 1:00–2:00 PM; and by appointment. Drop-ins are welcome, as long as I happen to be free.
TA:	Molly Pittman
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How to Succeed in this Class

This is a fast-paced course, and to succeed you need to do more than listen in class and take notes. Your notes and coursework and textbook are all important resources, but even more important are the people who are here to help you.

- **Me.** If you have any questions about the course or your progress in it, come to my office hours, make an appointment by email, or come by my office (though in the last case I do not guarantee that I will be available). You do not need to have a specific question about a homework or test problem. There is a tremendous difference between attending my classes and talking to me one-on-one.

- **Your TA.** In the evening class, whenever you are not taking a test, your TA will help to answer your questions and review the course material. Get as much out of this as you can by looking over your course notes and homework *before* you arrive so that you can better ask questions and engage in the answers.

- **Your classmates.** Many people benefit from studying the material and working on the homework with peers, and I strongly recommend that you try this to see if you are one of them.

  Keep in mind that *copying* someone else's homework, even with that person's permission, is a violation of Student Code of Conduct and subject to judicial review. Discuss the homework with your peers, but write up your solutions on your own.

Course Content

This is the first of a two-semester sequence in differential and integral calculus. Below are the topics I expect we will cover between the exams, though the details are subject to change.

Sections 1.1–1.3: Review of functions, graphs, composition of functions.
Sections 2.1–2.6: Limits, rates of change, continuity.
Sections 3.1–3.2: Definition of the derivative.
   Test 1
Sections 3.3–3.9: Derivative formulas, the chain rule, applications.
Sections 4.1–4.3: Maxima and minima, Mean Value Theorem, derivatives and graphing.
   Test 2
Sections 4.4–4.5, 4.7, 4.10: Curve sketching, optimization, more applications.
Sections 5.1–5.2: Areas and the definite integral
   Test 3
Sections 5.3–5.5: The Fundamental Theorem of Calculus, indefinite integrals, substitution.
Selected topics from later sections

Assessment

Show all your work. This goes for homework, quizzes, and tests. Answers alone will receive little or no credit (except when explicitly stated otherwise). Consider each solution to be an explanation of your work to one of your classmates. Use complete sentences, proper grammar, and punctuation.

Homework

In most classes, you will receive a short homework assignment due at the beginning of the following class. **Late homework will not be accepted for credit.** However, your four lowest homework scores will be dropped. Since there will be no exceptions, please try to use these only for emergencies.

I encourage you to work together with your classmates on the homework, but the final preparation and write-up of your work must be your own. Your submitted work should be stapled, neatly written, and labeled with your name.

Class Work

You are expected to attend the class meetings. Missing a handful of classes for excused activities, illnesses, or personal reasons is acceptible, but if you regularly skip class it will be reflected in the class work grade. You are also expected to observe the in-class code of conduct that we agree upon at the beginning of the semester.

Exams

We will have three evening tests and a final exam. The dates for these exams are given in the grading table below. Graphing calculators are not permitted in any exams.

Barring an incapacitating illness, religious conflict (note the first test this semester!), or other such obstacle, there are **no excuses** *for missing a test.* If you do have such a conflict, please let me know **at least two weeks** before the exam.

Grading

Homework	10%
Class Work (including attendance)	5%
Test 1: Tuesday, September 25*	25%
Test 2: Tuesday, October 23	25%
Test 3: Monday, November 19**	25%
Final Exam: Wednesday, December 14	25%
Total	115%

Note that there is an extra 15% in the table above. Whichever of the four exams most hurts your course grade will have its weight reduced by 5%.

Any student with a disability requiring accommodations in this class is encouraged to contact me after class or during office hours. Students with a disability may also wish to contact William Howard in the Office of Academic Services, Glendening Hall, suite 230, x4388.

*Due to schedule constraints, the first test will be given on Yom Kippur. If you need to arrange an alternate testing time, please contact me as soon as possible to make arrangements.
The third test is the Monday before Thanksgiving, when we **are still in session. Please make your travel plans accordingly.