

Math 19X: Fundamentals of Calculus I

TTh 3:30 — 4:45pm, Votey 209

Text: Applied Calculus by Waner/Constenoble, 4th edition

Topics: We will cover the following materials from the book (Chapter 0 – 5):

- Algebra review (Ch. 0)
- Functions and linear models (Ch. 1)
- Nonlinear models (Ch. 2)
- Introduction to the derivative (Ch. 3)
- Techniques of differentiation (Ch. 4)
- Applications of the derivative (Ch. 5)

Calculator: You will need a TI-83, TI-83 Plus, or TI-83 Plus Silver Edition for this course. I will assume that you will have a calculator during tests and quizzes. There will be NO sharing of calculators during tests.

Instructor: Prof. Jianke Yang

Room 401, Mathematics-Statistics Building

16 Colchester Avenue

Phone: 656-4314, jyang@cems.uvm.edu, <http://www.cems.uvm.edu/~jyang>

Office hours: TTh, 1:00 -- 2:00pm. Additional time by appointment.

Help sessions: to be announced

- (1) Mathlab
- (2) Additional help:

Homework: Assignments will be given in each class (almost). They will not be collected, but doing them carefully will absolutely help you do well in the exams.

Exams: There will be three in-class tests (after Ch. 2, 3 and 4 respectively), and a final (cumulative) exam. The tests will be 100 points each, and announced at least four days in advance.

Quizzes: There will be four un-announced quizzes during the semester, and only the three best quizzes will be used toward grading. Quizzes will be based upon material presented in prior classes and students are expected to come to class ready to be quizzed on any given day. There will be no makeups for unexcused absences.

Grading: 3 tests: 60% (20% each); three best quizzes: 20%; final exam: 20%.

Make-up Tests: Make-up tests are given only if

1. a **compelling** reason is **documented** and presented, and
2. your request is made and approved by this instructor at least one day before the test takes place.

On final exam: our final exam is on Friday, Dec. 14, 3:30-6:30pm (latest final-exam time this fall). **No earlier final exams will be given.**

Important dates: Add/drop deadline: Sep. 10

Withdraw deadline: Oct. 26

Last day of this class: Dec. 6 (Thursday)