

# Math 19T: Fundamentals of Calculus I

TTh 2:30 — 3:45pm, L/L A161

**Text:** *Calculus with Applications 9<sup>th</sup> Edition* Lial, Greenwell & Ritchey

**Topics:** We will cover the following materials from the book (Chapters R – 6, and part of Ch. 13):

- Algebra review (Ch. R)
- Linear functions (Ch. 1)
- Nonlinear functions (Ch. 2)
- The derivative (Ch. 3)
- Calculating the derivative (Ch. 4)
- Graphs and the derivative (Ch. 5)
- Applications of the derivative (Ch. 6)
- Definitions and derivatives of trigonometric functions

**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

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**Office hours:** TTh, 4:00 -- 5:00pm. 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 (see back of the page for time), and a final (cumulative) exam. The tests are for this class only, but the final exam will be common to all Math 19 sections.

**Final exam time:** the common final exam **for all Math 19 sections** will be on Thursday, Dec. 17th at 11:45 AM -2:45 PM. **No early final exam will be allowed for any reason by the department policy.**

**Grading:** 3 tests: 75% (25% each); final exam: 25%.

**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 three day before the test takes place.

**Important dates: Add/drop deadline: Sep. 14**

**Withdraw deadline: Nov. 6**

**Last day of this class: Dec. 8 (Tuesday)**

## Math 19 T (Yang) Course Calendar

Tuesday	Thursday
09/01/09 – Intro & Sec. R.2 – R.7	09/03/09 – Sec. R.2 – R.7 & 1.1
09/08/09 – Sec. 1.1 – 1.3	09/10/09 – Sec. 1.1 – 1.3 & 2.1
09/15/09 – Sec. 2.1 – 2.6	09/17/09 – Sec. 2.1 – 2.6
09/22/09 – Sec. 2.1 – 2.6	02/24/09 – Sec. 2.1 – 2.6
09/29/09 – <b>Midterm Test 1</b>	10/01/09 – Sec. 3.1 – 3.5
10/06/09 – Sec. 3.1 – 3.5	10/08/09 – Sec. 3.1 – 3.5
10/13/09 – Sec. 3.1 – 3.5 & 4.1	10/15/09 – Sec. 4.1 – 4.3
10/20/09 – Sec. 4.1 – 4.3	10/22/09 – Sec. 4.1 – 4.3
10/27/09 – <b>Midterm Test 2</b>	10/29/09 – Sec 4.4 – 4.5
11/03/09 – Sec. 4.4 – 4.5 & 5.1	11/05/09 – Sec. 5.1 – 5.4
11/10/09 – Sec. 5.1 – 5.4	11/12/09 – Sec. 5.1 – 5.4 & 6.1
11/17/09 – Sec. 6.1 – 6.2 & 6.4	11/19/09 – Sec. 6.4 – 6.5
11/24/09 – Sec. 6.5	<b>11/26/09 – NO CLASS</b>
12/01/09 – <b>Midterm Test 3</b>	12/03/09 – Sec. 13.1 – 13.2
12/08/09 – Sec. 13.1 – 13.2	