

Math 19M: Fundamentals of Calculus I

TTh 2:30-3:45pm, Kalkin 003

Text: *Calculus with Applications 9th Edition* Lial, Greenwell & Ritchey

(Please note that you will want the Course Compass MyMathLab Supplement that comes packaged with the textbook. You may wish to only purchase the Course Compass MyMathLab Supplement which includes an electronic version of the textbook.)

Course Compass Website: <http://www.coursecompass.com>

Topics: We will cover the following materials from the book (Chapters 1 – 6, and part of Ch. 13):

- 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 (Ch. 13)

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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16 Colchester Avenue

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

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

Extra office hours for exams: on the day before each exam (midterm and final, see below) from 2:00—4:00pm, extra office hours will be held for your questions on exam materials.

Math help sessions: to be announced

Grading: The grading system is as follows:

- **Course Compass Assignments (15%)**---Following each section covered, each student must log on to the CourseCompass system and complete a companion homework assignment that follows the material covered in class. You will be given **several** attempts to answer each question, and you **can** utilize the book and all of the aids offered within the CourseCompass system to help solve the problems. Each assignment should take roughly 30 - 45 minutes to complete, and you will have several days to complete the assignments. **At the end of the semester, I will drop the lowest 5 Course Compass Assignments and average the remaining assignment grades.** This average will count towards 15% of your final grade. The **COURSE ID** for this course is: **yang00821**

Course Compass Registration Info:

http://www.cems.uvm.edu/~jyang/teaching/MyMathLab_Registration_Guide.doc

- **Tests (60%)**---There will be **three** tests during the semester (see end of page for time). Each test will count towards 20% of your final grade.
- **Final Exam (25%)**---There will be a **cumulative** final exam given at the end of the semester. The final exam will count towards 25% of your final grade.

Final exam time: Dec. 12, 1:30pm - 4:15pm (Monday), in our regular classroom.

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. 12 (Monday)

Withdraw deadline: Oct. 31 (Monday)

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

Math 19 M (Yang) Course Calendar

Tuesday	Thursday
8/30 – Intro & Sec. 1.1–1.3	9/1 – Sec. 1.1 – 1.3
9/6 – Sec. 2.1 – 2.6	9/8 – Sec. 2.1 – 2.6
9/13 – Sec. 2.1 – 2.6	9/15 – Sec. 2.1 – 2.6
9/20 – Sec. 2.1 – 2.6	9/22 – Midterm Test 1
9/27 – Sec. 3.1 – 3.5	9/29 – Sec. 3.1 – 3.5
10/4 – Sec. 3.1 – 3.5	10/6 – Sec. 3.1 – 3.5
10/11 – Sec. 4.1 – 4.5	10/13 – Sec. 4.1 – 4.5
10/18 – Midterm Test 2	10/20 – Sec. 4.1 – 4.5
10/25 – Sec. 4.1 – 4.5	10/27 – Sec. 5.1 – 5.3
11/1 – Sec. 5.1 – 5.3	11/3 – Sec. 5.1 – 5.3
11/8 – Sec. 6.1 – 6.2	11/10 – Sec. 6.1 – 6.2
11/15 – Midterm Test 3	11/17 – Sec. 6.4
11/22 – NO CLASS	11/24 – NO CLASS
11/29 – Sec. 6.6	12/1 – Sec. 13.1 – 13.2
12/6 – Sec. 13.1 – 13.2	