

SYLLABUS: MATH 16A, SECTION 1

MOON DUCHIN, SPRING 2006

1. COURSE DESCRIPTION, PREREQUISITES, EXPECTATIONS

This is the first course of the Short Calculus sequence. In this course, we will study functions of one variable, focusing on limits, continuity, derivatives, and applications. The text is Larson & Edwards, *Calculus: An Applied Approach*, Seventh Edition.

My teaching style is *conceptual* rather than emphasizing memorization and “recipes.” Three other sections of 16A are offered concurrently, with three other teachers.

- To enroll in this course, you must either have passed the Precalculus Qualifying Exam offered by the Learning Skills Center or have passed Math 12 with a grade of C- or higher.
- It is expected but not required that you attend all lectures. You will be responsible for any material presented in class, whether or not you are present. This includes announcements, assignments, and in-class quizzes.
- It is required that you treat other members of the classroom community with respect at all times.

2. EXAM INFORMATION

There will be two in-class midterm exams and a two-hour final exam. Material to be covered will be posted on the website at least a week in advance.

First Midterm Monday April 17, in class
Second Midterm Monday May 8, in class
Final Exam Saturday June 10, 10:30am-12:30pm

These exams are closed book, closed notes, no calculator, and governed by the Code of Academic Conduct. Please bring a photo ID and sign in for each exam. You must show your work legibly in order to receive credit. The higher of your two midterm scores will count for a larger portion of your final grade.

3. HOMEWORK

Weekly homework assignments will be posted on the course website:

<http://www.math.ucdavis.edu/~mduchin/16A/>

Assignments are due at the beginning of class on Fridays. Selected problems from each assignment will be graded, and each assignment will receive a score of 0, 1, 2, or 3. Your lowest homework grade will be dropped at the end of the term. You are responsible for checking the accuracy of your scores, which will be posted on my.ucdavis.edu. You must correct any errors within a week of the score posting.

4. GRADE CALCULATION

Every Friday there will be an in-class quiz from 9:00-9:05am. It will test the current concepts on an extremely basic level. The lowest quiz grade will be dropped.

Your total score in the course will be comprised of the following fractional parts.

Homework	2/21
Quizzes	1/21
Lower Midterm Exam	4/21
Higher Midterm Exam	6/21
Final Exam	8/21 ($\approx 38\%$)

Your letter grade at the end of the term will be derived from your final score.

The Math Department has supplied me with information regarding the distribution of grades in this class for the last ten or more years. I will be grading you with respect to standards of 16A over time, and not against each other. Oh, also: the **curve** is a myth. It's like a unicorn, but less fun and useful. I will discuss this in class.

5. INSTRUCTOR INFORMATION

I am a Research Assistant Professor (postdoctoral scholar) here on a three-year appointment. My research is in geometric topology. My office is in MSB 2111, across from the undergraduate computer lab.

Office Hours : Wednesdays 10-11am
Fridays 10-12am

I am also happy to meet with you by appointment; you must schedule at least two days in advance.

6. POLICY ON EXCEPTIONS

- Late homework will **never** be graded. You are welcome to hand it in to be looked over, and if it meets a minimum standard of competence you will receive a score of 1 instead of 0.
- There will be **no make-up exams**.
- If you have a well-documented justification for missing a midterm exam which I approve, you may opt for the alternate grading scheme as follows: 10% homework, 5% quizzes, 35% completed midterm, 50% final.

7. ACADEMIC HONESTY

You are not only allowed but encouraged to work together on homework. However, your submission must be your own writing (or typing) and you must indicate what help you received or what sources (e.g., websites, calc room) you used on the assignment. You may use calculators and/or computers, but you should not need to. Please err on the side of caution and cite all relevant sources and resources.

If a student is suspected to have cheated on an exam or assignment, it is departmental policy that I refer the case to the Office of Student Judicial Affairs, which has a range of penalties at its disposal.

You can see the code of academic conduct at <http://sja.ucdavis.edu/pdf/CAC.pdf>

8. DROP DATE

The last day to drop the course without dean's permission or fee is the twentieth day of instruction, April 26. Your first midterm will be graded and returned by April 21.