

Introduction to College Mathematics for the Sciences - Math 8B – Section 1

Fall Quarter 2008

Instructor: Aviv Censor

Office: 232 Surge

Office Hours: Tuesday 11:15-12:30, Wednesday 9:15-10:30 am

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Primary Lectures: Tuesday 6:40-8:00 pm, Thursday 6:40-8:00 pm, OLMH 1208

Secondary Lectures:

Section 2: Monday 2:10-3:00 pm, Friday 2:10-3:00 pm, ENG2 room 139

Samuel Chamberlin

Office: 281 Surge

Office Hours: Thursday 9:00-10:00 am, 3:30-4:30 pm

Email: smacham@math.ucr.edu

Section 3: Monday 11:10am-12:00pm, Friday 11:10am-12:00pm, Sproul 2360

Kyle Husband

Office: 283 Surge

Office Hours: Monday 12:10-1:00 pm, Thursday 1:00-2:00 pm

Email: husbakol@math.ucr.edu

Textbooks:

- Mark Dugopolski / *College Algebra and Trigonometry*, 4th edition
(we will only cover chapters 5 and 6, which can be purchased separately as a “Trigonometry Supplement for UCR”)
- James Stewart / *Single Variable Calculus*, 6th edition

Midterm 1 (20%): October 23, 2008, during the lecture

Midterm 2 (20%): November 13, 2008, during the lecture

Final Exam (40%): December 12, 2008, 3:00-6:00 pm

Syllabus: The course provides an introduction to the differential calculus of functions of a single variable. We will cover the following subjects:

- Functions and Graphs
- Trigonometric Functions and Trigonometric Identities
- Limits and Continuity
- Tangents and Derivatives
- Rules and Methods of Differentiation
- The Basic Theorems of the Differential Calculus
- Indefinite Integrals

Homework: will be assigned each week on *webassign* (<http://www.webassign.net>) and will count for **10%** of the final grade.

Quizzes: There will be about 10 short quizzes, which will count for **10%** of the final grade. Quizzes will usually be given at the very beginning of class. You will not be able to take a quiz if you are late to class that day, and there will be no make-up quizzes.

Grades: You will receive a grade for the midterm and the final exam. A grade of C- means that you have understood enough of the material to continue the course, or continue on to the next course. It does not correspond to 70% or any other predetermined percentage. Note: the final exam will comprehensively cover the material of the entire course. An “F” for the final exam automatically gives you an “F” for the course. Grades, as well as other course materials, will be available on iLearn (<http://www.ilearn.ucr.edu>).

If you cannot come to the midterm or to the final exam, you have to make arrangements within the first two weeks of the course. We will only accept a very few reasons for not attending one of the exams. Those reasons are limited to: religious reasons, interviews for scholarships, and participation in intercollegiate sports.

Cheating will be taken very seriously. Every attempt to cheat will give you an automatic “F” for the course. You will not be allowed to drop the course, and your case will be forwarded to the student contact committee.

Course Attitude:

Calculus is like swimming or bicycle riding. You can't learn by watching someone else, even if that someone is *Michael Phelps* or *Lance Armstrong*, and even if you (think you) understand everything they are doing. You must jump into that pool or get on that bike by yourself. You need to practice a lot.

You are here to learn Calculus. This is a challenging course and the pace is fast. So (take a deep breath): Come to **all** classes. Participate. Do homework. Ask questions. Take advantage of office hours. Work hard.

We want you to succeed. Furthermore, we are nice people :) and we will do our best to help you succeed. And (believe it or not), just like swimming or biking, math can be fun!

Course Policies:

- You are expected to attend all lectures in which you are enrolled.
- All Exams and Quizzes are with closed books and notes. You may **not** use any calculators, cell-phones, i-pods or any other electronic devices.
- Grades should be earned honestly. See above.

Remark: If you have a disability and the University has determined that you require special accommodations, please provide appropriate documentation by October 9, 2008 so that we may plan for you accordingly.