

Math 172: CALCULUS II

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Office Hours: M T W 3:00 - 4:00 pm
You are also welcome to make appointments for other times.

Course: Topics include definite integration and applications, techniques of integration, improper integrals, infinite sequences and series, differential equations.
Prerequisite: 67-171 with a grade of C or above. Credit: 4 sem. hrs.

Text: *Calculus: Concepts and Contexts* (3rd edition) by Stewart.
We will cover selected sections from chapters 5 through 8.

Calculators: No calculators may be used on exams or quizzes.

Course Structure:

Daily homework
5 collected problem sets
5 quizzes, each 45 minutes long
1 midterm exam, 60 minutes long
1 cumulative final exam, 60 minutes long

Grading: Your work will be distributed as follows:

	<u>portion of grade</u>
4 problem sets	$\frac{1}{9}$
The problem set due when you feel the worst is dropped.	
4 quizzes	$\frac{4}{9}$
The quiz during which you feel the worst is dropped.	
Midterm exam	$\frac{2}{9}$
Cumulative final exam [†]	$\frac{2}{9}$
[†] 1 final exam = 1 midterm exam or, if it helps you, 1 final exam = $1\frac{1}{2}$ midterm exams	
A = 90-100% of the total points, B = 80-89%, C = 70-79%, D = 60-69%	

Make-Ups: **NO** make-ups for quizzes. **NO** make-ups for exams will be given unless I have agreed to give you one **before** the scheduled exam time.

Problem sets: **NO** late problem sets will be accepted.

Homework: It is very important to do the daily homework exercises. We will go over questions from these exercises in class, and you will profit from working on the problems before we give away their punchlines in class.

Attendance: A passing grade normally requires attendance at no fewer than 80% of the classes held.

- Goals:*
- To master the techniques of calculus we cover.
 - To be able to use calculus to solve applied problems.
 - To understand the main concepts of the course well enough to explain them to a younger sibling.
 - To improve your abilities to solve problems that require several steps.
 - To learn to communicate mathematics. You should be able to
 - (1) learn mathematics by reading materials such as your textbook;
 - (2) write coherent, complete, and logically organized solutions to problems, including those in your homework;
 - (3) learn mathematics by discussing it with friends, classmates, and me.

Study suggestions:

Plan to *spend at least eight hours per week outside of class studying calculus*. Before each class, read the section of the text to be covered. Between each class and the next, review your notes and work the assigned exercises. It is very important to do these exercises. We will go over questions from these exercises in class, but you will benefit most by working on the problems **before** we give away their punchlines in class. Think about the fundamental ideas and *why* the techniques work as well as how to apply them. Each exam will contain problems unlike those you have done before, but understanding the ideas will enable you to do the problems.

Important Dates:

Note: All exams, quizzes, and problem set due dates are on Fridays.

<i>Exams:</i>	Exam 1	March 21
	Exam 2*	May 16
	*Exam 2 is a comprehensive final exam.	
<i>Quizzes:</i>	Quiz 1	Feb. 15
	Quiz 2	Feb. 29
	Quiz 3	April 4
	Quiz 4	April 18
	Quiz 5	May 2
<i>Problem sets:</i>	Problem set 1	Feb. 8
	Problem set 2	Feb. 22
	Problem set 3	March 7
	Problem set 4	April 11
	Problem set 5	May 9

“It is what you learn after you know it all that counts.”

John Wooden, *They Call Me Coach*