

MATH 142-4: Calculus II
Fall 2006

Instructor: Dr. Susan Cooper

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Office Hours: MF 10:10 am – 11:30 am, T 2:10 pm – 3:10 pm, R 2:10 pm – 3:30 pm
& by appointment.

Class Times & Location: MTRF 9:10 am – 10:00 am, Building 38 – Room 148.

Required Background: MATH 141 or equivalent.

Course Webpage: www.calpoly.edu/~sucooper/courses_fall06/coursedetails.html
& blackboard.

Textbook: *Calculus*, 5th Edition, James Stewart, Thomson Brooks/Cole, 2003.

Content: We will cover Section 5.5, Chapters 6 – 9, Sections 10.1 & 10.4 of the textbook.

Learning Objectives: The student should:

- * Be able to differentiate and integrate elementary transcendental functions.
- * Understand some of the applications of integration, including areas, volumes, work, arc length, lateral surface area, and center of mass.
- * Know how to integrate combinations of elementary functions with accuracy and confidence

Homework & Quizzes: Homework questions will be assigned each lecture. These exercises will not be collected. However, regular quizzes (see “Dates to Remember”) will be given to check that homework is being completed and to gauge your progress with the material. These quizzes will be short in length (about 5 – 10 minutes) and the questions will be *very similar* to the homework exercises.

Project: During the quarter I will assign a project. The project will be a series of true/false questions that test your understanding of the theory presented thus far. You will be allowed to either work alone or in groups of 2-3 people. No late submissions will be accepted.

Exams: There will be 2 in-class midterm exams given during the quarter. In addition, there will be a cumulative final examination. The dates of these exams can be found in “Dates to Remember”.

Course Grades:	Quizzes (Best 7 out of 9)	10%
	Project	10%
	Midterm 1	20%
	Midterm 2	25%
	Final Exam	35%

Calculator Policy: No calculators or other aids will be allowed during exams. All quiz and exam questions will be designed so that they can be answered without calculators.

Missed Quizzes and Exams: There will be no make-up quizzes for *any* reason. If you have to miss a quiz then a grade of zero will be given and this will count as one of your dropped quizzes. A missed exam will count as zero unless alternate arrangements are made *before the test* or acceptable official document (such as a doctor's note) explaining the situation is presented.

Academic Dishonesty: You will be expected to submit only work that is your own. This will help us gauge your understanding, progress, and abilities for the material. If any dishonesty is caught on a quiz or exam then a grade of F will be given in the course.

Dates to Remember (Quizzes, Midterms, Final Exam, and Holidays):

Friday, September 29	Quiz 1
Friday, October 6	Quiz 2
Friday, October 13	Quiz 3
Tuesday, October 17	MIDTERM 1 (50 minutes)
Friday, October 27	Quiz 4
Friday, November 3	Quiz 5
Thursday, November 9	Quiz 6
Friday, November 10	Veteran's Day (No Class)
Friday, November 17	MIDTERM 2 (50 minutes)
Tuesday, November 21	Quiz 7
November 22-24	Thanksgiving Break (No Classes)
Friday, December 1	Quiz 8
Thursday, December 7	Quiz 9
Friday, December 8	Last Class
Friday, December 15	FINAL (7:10 am – 10:00 am, Building 38 – Room 148)

Expectations & Tips on How to be Successful in MATH 142:

- * It will be expected that you are comfortable with the material from MATH 141. You should review trigonometric functions (see Appendix D of your text), limits, and differentiation rules.
- * An essential part of the learning process occurs during class. Although there is no grade assigned for attendance, you are expected to attend classes regularly.
- * Starting with the first class, study in-depth and regularly. You are expected to study *25 – 35 hours a week outside the classroom*. Thus, at a minimum you should be studying *2 hours for every one hour of class*. Read "University Expectations" on the course webpage for more ideas.
- * You are expected to read the material to be covered *before* the lecture and to do the assigned exercises *before* the next class period.
- * Be an active participant and considerate to others during class discussions.
- * Do not rely on solution manuals! These are readily available and it is tempting to just copy the solutions. However, struggling through the exercises on your own is an important phase of the learning process.
- * Get help as soon as you need it: ask questions in class and office hours; form a study group with your classmates; consider getting a tutor, etc.
- * For exam preparation, practice exercises that have not been assigned. The review exercises at the end of each chapter in the textbook are an excellent source of additional questions.
- * Everyone wants you to succeed. Please speak with me regarding any concerns you may have.
- * Relax and have fun with the course!