

MATH 142-07: Calculus II
Winter 2007

Instructor: Dr. S. Cooper

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Office Hours: M 3:30 pm – 5:30 pm, TF 9:00 am – 10:00 am, R 2:30 pm – 3:30 pm
& by appointment.

Correspondence: The best way to reach me is via email. However, emails will only receive a reply if they include an appropriate title and the sender's full name.

Class Times & Location: MTRF 12:10 pm – 1:00 pm, Building 38 – Room 220.

Required Background: MATH 141 with a grade of C- or better, or consent of the instructor.

Course Webpage: www.calpoly.edu/~sucooper/courses_winter07/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 will be collected at the beginning of every Thursday class. *No late submissions will be accepted.* The homework will be given a grade of 0, 1, or 2 based on completeness. In addition, regular quizzes will be given to gauge your progress with the material. These quizzes will be short in length and the questions will be similar to the homework.

FAQ: During each class (besides quiz, review, and exam days), one question based on the previous lesson will be posed. A student will be chosen at random to answer. Each student will start with 20 points. If the question is answered correctly, then the student is removed from the FAQ pool (and loud applause is gained!). If a question is answered incorrectly, then 3 points will be deducted and the student remains in the FAQ pool. If a student does not attempt to answer (e.g. is absent), then 10 points will be deducted. In the end, one question will be posed for everyone who remains in the FAQ pool. This may be an uncomfortable exercise, but a part of mathematics is thinking and presenting ideas in a clear and clear fashion. The questions asked are *not* intended to be tricky or embarrassing. Rather, this exercise is intended to motivate regular attendance, regular studying of definitions, theory, identities, and to build your confidence. Respect for others is expected.

Exams: There will be 2 in-class exams given. Also, there will be a cumulative final examination.

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.

Course Grades:	Quizzes (Best 6 out of 8)	15%
	Homework	6%
	FAQ	4%
	Exam 1	20%
	Exam 2	20%
	Final Exam	35%

At the instructor's discretion, the lower of the two exam scores may be dropped, and the weight transferred to the final. The weight of the final will not be reduced.

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, then a grade of F will be given in the course.

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

Thursday, January 11	Quiz 1
Monday, January 15	Martin Luther King, Jr. Birthday (No Class)
Thursday, January 18	Quiz 2
Thursday, January 25	Quiz 3
Friday, February 2	EXAM 1
Thursday, February 8	Quiz 4
Thursday, February 15	Quiz 5
Friday, February 16	George Washington Birthday (No Class)
Thursday, February 22	Quiz 6
Thursday, March 1	EXAM 2
Thursday, March 8	Quiz 7
Thursday, March 15	Quiz 8
Friday, March 16	Last Class
Monday, March 19	FINAL (10:10 am – 1:00 pm, Building 38 – Room 220)

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. You are expected to attend classes.
- * 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 (*especially for FAQ*).
- * 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!