

MATH 141-12: Calculus I
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 12:10 pm – 1:00 pm, Building 38 – Room 227.

Required Background: MATH 118 and MATH 119 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 closely follow the text, covering Chapters 1 – 5 (except 2.4, 4.6, 4.8).

Learning Objectives: The student should:

- * Understand the meanings of functions, and be able to represent them by means of graphs.
- * Understand fundamental concepts of limits and continuity.
- * Understand the meaning of a derivative and be able to compute derivatives of algebraic and trigonometric functions.
- * Be able to use derivatives to solve problems involving maxima, minima, and related rates.
- * Begin to understand integration.

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. The 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 experienced 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”.

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

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.

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

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):

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| 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 |
| Tuesday, December 5 | Quiz 9 |
| Friday, December 8 | Last Class |
| Friday, December 15 | FINAL (10:10 am – 1:00 pm, Building 38 – Room 227) |

Expectations & Tips on How to be Successful in MATH 141:

- * 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!