MATH 142-20: Calculus II
Winter 2008

Instructor: Dr. S. Cooper
Office: 25-320 *Email*: sucooper@calpoly.edu *Phone*: 756-1679
Office Hours: MW 9:30 am – 10:30 am, TR 12:00 pm – 1:30 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: MTWR 4:10 pm – 5:00 pm, Building 38 – Room 202.

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

Course Webpage: www.calpoly.edu/~sucooper/courses_winter08/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.

Attendance: An essential part of the learning process occurs during class. Since our class is scheduled late in the day, you may find it tempting to not attend each one. You are expected to attend classes regularly. To motivate this, attendance will be taken randomly and a portion of your grade will reflect this record.

Homework & Quizzes: Homework questions will be assigned each lecture. Once a week (see "Dates to Remember") either homework will be collected or a quiz will be given. It will not be previously announced which task will be performed. These evaluations will be used to check that homework is being completed and to gauge your progress with the material.

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 quizzes and exams. All quiz and exam questions will be designed so that they can be answered without calculators.

Course Grades:		
	Attendance	5 %
	Homework/Quizzes (Best 7 out of 8)	20 %
	Exams 1 & 2	20 % each
	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.

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 your dropped quiz. A missed exam will count as zero unless alternate arrangements are made *before the test* or acceptable official documentation (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, then a grade of F will be given in the course.

Dates to Remember (Quizzes, Exams, and Holidays):

Wednesday, January 9	Homework/Quiz 1
Wednesday, January 16	Homework/Quiz 2
Monday, January 21	Martin Luther King, Jr. Birthday (No Class)
Wednesday, January 23	Homework/Quiz 3
Thursday, January 31	EXAM 1
Wednesday, February 6	Homework/Quiz 4
Wednesday, February 13	Homework/Quiz 5
Wednesday, February 20	Homework/Quiz 6
Wednesday, February 27	EXAM 2
Wednesday, March 5	Homework/Quiz 7
Wednesday, March 12	Homework/Quiz 8
Thursday, March 13	Last Class
Wednesday, March 19	FINAL (4:10 pm – 7:00 pm, Building 38 – Room 202)

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.
∗ 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!