

MATH 1300: CALCULUS I
SPRING 2009
COURSE INFORMATION AND POLICIES

Course Webpage: <http://www.colorado.edu/math/courses/calculus/math1300.html>

Prerequisites: Two years of high school algebra, one year of geometry, and one-half year of trigonometry *or* MATH 1150.

Purpose: The primary objective of this course is to aid students in becoming confident and competent in solving problems that require techniques developed in Calculus. Successful completion of MATH 1300 provides students with skills necessary for other mathematics courses. Students will have a working understanding of limits and continuity. Students will also be able to utilize various techniques to differentiate and integrate numerous functions including logarithmic, exponential, and trigonometric functions. In addition, students will understand and be able to apply the Mean Value Theorem, the First and Second Derivative Tests, and the Fundamental Theorem of Calculus in both theoretical problems and applications. Also, the purpose of any mathematics class is to challenge and train the mind. Learning mathematics enhances critical thinking and problem solving skills.

Text: Anton, Bivens, & Davis: *Calculus: Early Transcendentals*, 8th ed. (Wiley). This text has been repackaged (at somewhat reduced cost) specifically for this course as *Single Variable Calculus: Math 1300/2300* (Wiley) and is available at the CU bookstore.

Attendance: Regular attendance is expected and is vital to success in this course. In particular, attendance in recitations on Thursdays is required (see below).

Homework: There are three types of homework required for this course. In no case will late homework be accepted **for any reason**.

1. Monday, Tuesday, Wednesday, Friday on-line homework: The first type of homework consists of problems assigned on Monday, Tuesday, Wednesday, and Friday. These assignments must be completed before the next day's class **on-line** at the link below. Each of these assignments counts equally and you will not receive credit for the assignment if you complete it after the starting time for your class the following day. Five of your lowest Monday, Tuesday, Wednesday, and Friday homework scores will be dropped at the end of the semester.

On-line homework link: <http://euclid.colorado.edu/webwork2/>

Click on the link "Math 1300"

2. Weekly written assignments: The second type of homework consists of weekly written homework from the text that will be due each Tuesday. These short assignments will cover the previous week's work, one or two problems will be assigned each day, and will be graded not just for correctness but also on how well your written work supports your solution. You will be expected to do these problems as they are assigned. Do not wait until they are due

to work them. Two of these homework grades will be dropped. These assignments may be handed in early but not late.

3. Recitation homework: The third type of homework will be assigned on Thursday. These homework assignments will be similar to the worksheets completed during recitations on Thursdays (see below and) **must** be downloaded by each student from the course web page. The recitation homework is due Friday, to be turned in to your instructor at the beginning of class, and will count towards your recitation grade (which is 10% of your course grade).

Recitations: In each recitation section you will complete a worksheet that is designed to either introduce new material or reinforce previously introduced concepts. You must attend each recitation and actively participate during the entire session. Your worksheet will not be collected but you will be graded on your attendance, participation, and your work on the recitation homework. You cannot make-up the recitation; we will drop your lowest two recitation grades and your lowest two recitation homework grades. Both the homework due on Friday (which will cover the material covered in the recitation) and the complete solution to the worksheet **must** be downloaded from the course website by each individual student. The solutions to the worksheets will be posted to the course web page on Thursday afternoon following recitations.

Exams and Quizzes: In each Tuesday's class you will take a short (i.e., 10-15 minute) quiz. Each quiz will cover the on-line homework from the previous week (Monday through Friday). To receive *any* credit on a quiz problem you must provide complete, clear, and convincing work—a correct answer without complete, clear, and convincing work will yield a low, or even a very low, quiz score. During the semester you will have 14 quizzes, we will drop your lowest 4 scores. You cannot make up a missed quiz for any reason.

There will be 3 midterm exams (**February 4, March 4, April 8** from **5:15 to 6:45 pm**) and a final exam (**Monday, May 4** at **10:30 am-1:00 pm**)—all locations to be determined. Each of these exams contributes equally to your final grade. There will be *no make-ups* for any midterm exam for any reason. We will substitute your final exam score for your lowest midterm score if it improves your average. In particular, your final exam grade will replace the zero grade you receive if you miss a midterm exam. Each exam, especially the final exam, will be cumulative.

The Undergraduate Mathematics Resource Center: This center is staffed by graduate students from the Department of Mathematics. You will be expected to go to the Center to get help with any course concepts or homework problems that are not addressed in your regularly-scheduled class. The Center is in MATH 175 and is open Mon-Thurs 8 am-6 pm and Fri 8 am-2 pm.

About Calculators: Calculators will not be allowed on any of the exams.

Course Evaluation:

Grading: You will be graded on your on-line homework performance, on your written work, which will be judged on the basis of *correctness*, *completeness*, and *legibility*, and on your participation in the Thursday recitations.

Basis for Evaluation: Your final grade will be determined as follows:

On-line Homework Grade: 5%

Weekly Homework Grade: 5%

Recitation Grade: 10%

Quiz Grades: 8%

Exams: 72% (Midterm Exams 18% each and Final Exam 18%)

Additional Information:

Students with Disability: If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, or

<http://www.Colorado.EDU/disabilityservices>.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at

<http://www.colorado.edu/disabilityservices>.

Religious Obligations: Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. See full details at

http://www.colorado.edu/policies/fac_relig.html.

Classroom Behavior: Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions. For more information go to

<http://www.colorado.edu/policies/classbehavior.html>.

Honor Code: All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and

threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at

<http://www.colorado.edu/policies/honor.html>

and

<http://www.colorado.edu/academics/honorcode>.