

FALL 2005
CALL 12126

MATH 1325.001
MWF 9:00 - 9:50 am

APPLIED CALCULUS I
JO 3.516

INSTRUCTOR: Dr. Ed Stone EC 3.202 972-883-2637

HOURS: TR 11:00 – 11:50 am; W 6:15 - 6:45 pm; and by appointment

TEXT: Lial, Greenwell, Ritchey: *Calculus with Applications*, Eighth Edition, Addison-Wesley. A number of handouts will be provided to supplement or replace sections of the text or to cover topics not in the text.

OBJECTIVE: To provide an understanding and motivation of the fundamental ideas of differential calculus, skill in using the techniques, and facility in applying the calculus to economic and business analysis and modeling problems. Applications will include: compound interest; exponential growth and decay; relations of average and marginal quantities; elasticity; applied optimization problems; and increasing and decreasing returns to scale. Emphasis will be on the mathematical fundamentals, but students will be expected to relate the mathematics to the problems and their language.

READINESS: A grade of C- or better in Math 1314, College Algebra, or a score of 480 or better in SAT II Mathematics Level IC. A self-test for assessing preparation will be given in the first class meeting. This is a challenging course and good algebra skills and proper preparation are essential for success. Attend class and do the assigned reading, work homework after every class, prepare thoroughly for all tests, and get help promptly when you encounter difficulty.

RECORDS: Course records will be kept on the WebCT internet environment at the URL <http://webct.utdallas.edu/>. To access this from a UTD computer lab or from your own web connection you will need your netID and password (if you don't know this, obtain it promptly from the UTD computer lab). Using this you can keep track of your grades and average, get email updates from your instructor, and download the syllabus, assignments and handouts. To get the handouts you will need Adobe Acrobat Reader, available free and present on UTD computer lab equipment. If you have trouble, get in touch with me at once.

CONDUCT: Students are expected to attend all lectures and problem sessions and to avoid talking or interfering with the attention of others. All exams and quizzes are closed-book and without notes. Students are expected to maintain silence, and to avoid any observation of others' papers. Possession of prohibited items on an exam or quiz is an **academic integrity infraction**, and will **not** be tolerated.

CALCULATOR: A scientific calculator is recommended. Calculators having alphabetic or graphic displays, or stored program capacity, are **not** permitted, and

possession of such on an exam or quiz is an academic integrity infraction.

ATTENDANCE: Students are expected to take the examinations at the announced time and place. Students traveling on UTD sponsored activities must present, a week in advance, a letter from the faculty sponsor verifying the absence and committing to administer the exam at the appropriate time. If an absence is occasioned by an emergency, you should present verification as soon as possible to assure your opportunity for a compensating grade.

HOMEWORK: Homework is not collected, but is important preparation. Selected odd numbered problems (answers in the back of the book) are assigned and other problems recommended (a student solution manual is available in the bookstore). There are also assignments in the handouts. Homework is not collected, but should be worked before the subsequent class. Get help right away if you encounter problems you cannot manage by consulting the notes or text.

EXAMS: There will be 3 major exams, on **Monday** Sept 26, **Monday** Oct 24, and **Friday** Nov 18. On all problems, organized work must be shown; no credit attaches merely to the final answer. Each raw score will receive an adjustment interpreted according to the letter grade scale below. **MAKEUPS WILL NOT BE GIVEN.** An option on the final will produce a score to replace **one** exam missed for an acceptable reason.

FINAL EXAM: A comprehensive final is **REQUIRED**. It will be given **8 am WEDNESDAY NOVEMBER 30**. Three sections of the final exam will be marked, covering the material tested on each preceding Exam. Credit from an appropriate section will provide exam scores approved for makeup. Exam papers are kept on file for one year and then destroyed. You may come by the office during that year to review your exam; it will not be returned.

GRADES: The EXAM scores will be equally weighted, and the FINAL will count one-third of the grade. The term average will be converted into letter grades by the rule: A 90 - 100; B 80 - 89; C 70 - 79; D 60 – 69, with the top third of each range marked plus, the bottom third minus.

A grade of W may be elected through Thursday Sep 16; after this, a grade of WP/WF may be elected through Thursday Oct 21. Thereafter withdrawal is permitted for non-academic reasons **only**. A grade of INCOMPLETE may be given **only** if (1) performance is currently satisfactory, (2) student is **not** eligible to withdraw, and (3) **unavoidable** circumstances prevent completion of the term. It is the student's responsibility to notify the instructor and document the circumstances; approval of the instructor, department head, and dean is required. The grade must be made up in the first eight weeks of the next term.

HELP: It is essential that you attend class, work assignments promptly, and seek help immediately when you encounter difficulty. Help is available from me after class, during my office hours, and by appointment. A TA assigned to this course will hold office hours throughout the week. The Math Lab in MC 2.402 is an excellent source of walk-in help. Hours are usually MTWR 10-8; FS 10-2. Some appointments are available by phoning 883-6707.

IMPORTANT DATES:	Census Day	Friday, September 2
	Last Day to Withdraw W	Thursday, September 22
	Last Day to Withdraw WP/F	Thursday, October 20