

SUMMER 2005
Call 10975

MATH 2333.022
MATRICES, VECTORS & APPLICATIONS

TR 10:00 - 11:50 am
GR 3.420

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

HOURS: **TWR 12:30 - 1:15 pm**, and by appointment.

TEXT: Williams, *Linear Algebra with Applications*, Fifth Edition, Jones & Bartlett. There may be supplementary handouts from time to time, and these may include further homework problems.

OBJECTIVE: To develop the understanding and skill to use matrix algebra to represent systems of linear equations and model complex operations, with special attention to applications in business and economics. Students will learn the basics of matrix computations and become familiar with the interpretations of matrices geometrically and in application contexts. The course will include an introduction to the basic ideas of linear programming.

READINESS: Credit for Math 1314, College Algebra, or equivalent, is prerequisite. A self-test for assessing preparation will be given in the first class meeting. The first quiz will cover this material.

HOMEWORK: A handout listing selected problems by textbook section may be downloaded from WebCT. These are automatically assigned when discussion of the section is complete. Starred problems have answers in the back of the book and a student solution manual is available in the bookstore. Homework will not be collected or graded, but it is essential preparation for quizzes and exams. You should get help as needed to perfect your skills and understanding.

QUIZZES: There will be 8 quizzes, given every Thursday except on exam weeks. These will count 25 points each. **MAKEUPS WILL NOT BE GIVEN.** The two lowest scores or missed quizzes will be dropped. The average of the highest six scores will contribute to the final grade.

EXAMS: There will be 2 major exams. These given Thursdays in the first hour of class on June 14 and July 5. Each raw score will receive an adjustment that can be interpreted according to the letter grade scale below. **MAKEUPS WILL NOT BE GIVEN.** An option on the final will produce a score to replace an exam missed for an acceptable reason.

CALCULATOR: Calculators are permitted, but not necessary, on exams and quizzes; however, calculators having graphic or alphabetic displays, or matrix capability, are **NOT** permitted on any exam or quiz. A scientific calculator is recommended for other work

CONDUCT: Students must attend class and refrain from interfering with other students' attention. On exams and quizzes, only a pen or pencil and a simple scientific calculator are permitted. ALL other material is to be stowed on the floor, including book, notes, phones, pagers and WATCHES. A photo ID should be displayed on your desk. You are responsible for observing these conditions. You are to avoid observation of another's paper and avoid displaying your own. Any violation is an academic integrity infraction and will be punished severely.

RECORDS: Course records will be kept on the WebCT internet environment at <http://webct.utdallas.edu/>. To access this you will need your UTD Unix account name and password (which should have been provided to you at your first registration). Using this you can keep track of your grades and average, receive emergency email notices from your instructor, and download the syllabus and handouts. To get the handouts you will need Adobe Acrobat Reader, available free and present on UTD computer lab equipment. If you have any trouble, get in touch with me at once.

FINAL EXAM: A comprehensive final is **REQUIRED**. It will be given **TUESDAY July 26**, from 11:00 am to 1:45 pm in this room. The final exam will have three sections, covering the material tested on Exams I and II and material not yet tested. All sections are required. Credit from an appropriate section will provide exam scores approved for makeup.

GRADES: The EXAM scores and QUIZ average 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.

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 office hours, and by appointment. A TA assigned to this course will keep office hours throughout the week. The Math Lab is in MC 2.402 and is an excellent source of walk-in help. Summer hours will be announced. Some appointments are available by phoning 883-6707.

Important Dates

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| 05/25 | Census Day for 12 week session. |
| 06/16 | EXAM I |
| 07/04 | Monday, Independence Day |
| 07/07 | EXAM II |
| 07/26 | FINAL EXAM, Tuesday, 11:00 am – 1:45 pm, in the regular classroom. |