

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICS

Course #: MATH 3323-21590
Course Title: Matrix Algebra
Credit Hrs: 3
Term: Spring 2016
Course
Meetings & Location: TR 1030-1120 pm COTT 207
Prerequisite Courses: MATH 1312: students are assumed to be proficient on all prerequisites
Instructor: Dr. Luis Valdez-Sanchez
Office: Bell Hall 222
Location:
Contact Info: Phone (915) 747-6766
E-mail lvsanchez@utep.edu
Fax (915) 747-5761
Office Hrs: MW 1230-0120pm and TR 0130-0220pm or by appointment
Textbook(s): Required: *Introduction to Linear Algebra*, Fifth Edition, by Johnson-Riess-Arnold, Addison Wesley
Materials: Suggested: *A first course in Linear Algebra*, by Robert Beezer; free textbook at <http://linear.ups.edu/>
Linear Algebra, by Jim Hefferon; free book/answers download at <http://joshua.smcvt.edu/linearalgebra/>

Course Objectives: This is a first course in Linear Algebra which introduces the theory and concepts of matrix algebra including systems of linear equations, matrices, determinants, eigenvalues and eigenvectors, diagonalization, vector spaces and linear transformations. Chapters 1, 3, and 4 will be covered in detail.

Course Activities & Assignments: More emphasis on proofs and verification of statements than usual will be necessary in order to make sense of procedures. For each lecture you will be expected to spend around 2 hrs reading the textbook and working on hw outside of class. Homework for each section is suggested but not collected. Rather than just checking answers for the hw in the back of the book, you should read, digest and understand the content of each section and the discussion given in lecture before attempting the problems. Treat each topic as if you were meeting it for the first time, making sure to understand each day's material before the next class meeting. Solutions to all quizzes and exams and other announcements will be posted in BlackBoard.

Assessment of Course Objectives: There will be two midterm exams and a comprehensive final. Unannounced quizzes on material coming from Hw problems and the examples discussed in the textbook/lecture will be regularly given in class. Only scientific calculators may be used and cannot be shared during quizzes/exams.

Course Schedule: - Midterm dates: Wed 09/23 (Ch 1), Mon 11/02 (Ch 3).
- The **final exam on THURS 05/12/2016, 10:00 am-12:45 pm** will be **comprehensive** and include all the material from chapters 1, 3, and 4.
- Martin Luther King Day 01/18. University closed 02/17. Spring Break 03/07—11. Cesar Chavez Day/Spring Study Day 03/25. **Course drop deadline: 04/01: College of Science will not approve any drop forms after this date.** Dead Day 05/06.

The University of Texas at El Paso – College of Science

- Grading Policy:** Each midterm is worth 25%, quizzes are worth 10%, and the final exam is worth 40%. Grades will be assigned as follows: A \geq 90; B \geq 80, C \geq 70, D \geq 60, F $<$ 60. The course grade will be the average grade of midterms, quizzes and final. Academic performance in this class will be the only factor used in determining course grades. No extra credit work will be available to improve on any grade.
- Make-up Policy:** There are no make-ups for quizzes or the final exam. In case of missing a midterm exam due to an emergency, contact me as soon as possible to discuss a possible make-up schedule (depending upon officially documented and academically valid reason for missing exam). If a make-up cannot be given, the grade for the missed midterm or final will be 0. No extra time will be given if arriving late to any exam/quiz.
- Attendance Policy:**
- Students are expected to arrive to all lectures on time, participate in class discussions and stay for the entire class period. If you must leave early for any reason, please inform me beforehand; do not walk away from a lecture in progress.
 - No penalty for missing class if there is no quiz.
 - If you are unable to attend class, you are still responsible for the material covered during the missed class period. Ask any of your classmates for notes, as examples discussed in class may be used in tests later.
 - Students are expected to read the textbook prior to each class meeting and be familiar with the current topic of discussion outlined in the course schedule.
 - Taking into account the volume of information to be covered and the amount of homework assigned in this course, you should expect having to devote a minimum of 10 hours a week of work outside of class.
- Academic Integrity Policy:** Each student is responsible for notice of and compliance with the provisions of the Regents' [Rules and Regulations](#), which are available for inspection electronically at <http://www.utsystem.edu/bor/rules/homepage.htm>. All students are expected and required to obey the law, to comply with the Regents' [Rules and Regulations](#), with System and University rules, with directives issued by an administrative official in the course of his or her authorized duties, and to observe standards of conduct appropriate for the University. A student who enrolls at the University is charged with the obligation to conduct himself/herself in a manner compatible with the University's function as an educational institution. Any student who engages in conduct that is prohibited by Regents' [Rules and Regulations](#), U. T. System or University rules, specific instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.
- Civility Statement:** May not use cell phones, pagers, iPods, MP3 players, headsets or blue-tooth devices, etc. during class. Cell phones and pagers should be set to silent or vibrate, and any calls should be taken outside of class. Do not talk in class.
- Disability Statement:** If a student has or suspects she/he has a disability and needs an accommodation, he/she should contact the Center for Accommodations and Support Services (CASS) at (915) 747-5148, cass@utep.edu, or Union East Building Room 106. The student is responsible for presenting to the instructor any CASS accommodation letters and instructions.
- Military Statement:** If you are a military student with the potential of being called to military service and /or training during the course of the semester, you must contact your instructor as soon as possible before leaving.