

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

Course #: MATH 3323-11470
Course Title: Matrix Algebra
Credit Hrs: 3
Term: Fall 2018
Course Meetings & Location: BUSN 326, 01:30 pm – 02:50 pm MW
Prerequisite Courses: MATH 1312: students are assumed to be proficient on all prerequisites
Instructor: Dr. Luis Valdez-Sanchez
Office Location: Bell Hall 222
Contact Info: Phone # (915) 747-6766
E-mail address: lvsanchez@utep.edu
Fax # 747-5761
Office Hrs: MW 12:30 – 01:20 pm and TR 01:30 – 02:20 pm or by appointment

Textbook(s), Materials: Required: *Introduction to Linear Algebra*, Fifth Edition, by Johnson Riess-Arnold, Addison Wesley
Suggested: *A first course in Linear Algebra*, by Robert Beezer; free textbook, download at <http://linear.ups.edu/>
Linear Algebra, by Jim Hefferon; free textbook/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.

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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.

No calculators may be used during any quiz or exam.

No bathroom breaks will be allowed during any quiz/exam (medical conditions or dire circumstances excluded).

Course Schedule -- Target midterm dates: Midterm 1 (Ch 1) TBA, Midterm 2 (Ch 3) TBA.
-- The final exam, **on WED 12/12/2018, 04:00-06:45 pm**, will be **comprehensive** and include material from chapters 1, 3, and 4.
--- University Closed (No class): Labor Day 07/04.
-- **Course drop deadline: Friday 11/02; withdrawals after this date will not be approved**; see <http://academics.utep.edu/Default.aspx?tabid=56696> for instructions or contact the Registration and Records Office.
--- University Closed (No class): Thanksgiving Holiday 11/22-23.

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, or a C if the final exam grade is \geq 70 and the average is $<$ 70.

Academic performance in this class will be the only factor used in determining course grades and will be based exclusively in the evaluation items indicated above.

In order to be granted a grade of Incomplete, a student must have completed at least 60 percent of the coursework with a grade of C or better. An Incomplete grade cannot be granted to anyone who has taken the final exam.

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.

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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 extra time will be provided when arriving late to any quiz or midterm.

-- 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 12 hours a week of work outside of class.

-- 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.

-- A student may be dropped by the instructor prior to the drop deadline for excessive absence, neglect, lack of effort (ie after not taking several consecutive quizzes or a midterm without providing an academically valid excuse).

Academic Integrity Policy The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. 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.

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Civility Statement: Please do not use cell phones, pagers, iPods, MP3 players, 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. Please do not wear headsets or blue tooth devices during class. Please don't talk in class. Active participation in class is expected.

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 747-5148, cass@utep.edu or directly in Room 106 Union East Building. The student is responsible for timely 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 semester, please contact me by the end of the first week of class.