

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

Course number: M1309, CRN: 28625/28628
Course Title: College Algebra
Credit Hours: 3
Term: Spring 2020
Course Meetings & Location: TR (10:30AM-11:50AM), UGLC 334
Prerequisite Courses: M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores or enrolled in a Co-Requisite (Math 0313).

Instructor: Nada Al-Hanna
Office Location: Bell Hall 325
Contact Info: 747-8898
E-mail address: nfalhanna@utep.edu
Emergency Contact: (915)747-5761 (Math Department)

Office Hrs: TR (1:00PM-2:00PM) or by appointment.
Textbook(s), Materials: Required: Pre-Calculus by Larson, 10th edition (available as e-book and hardcover)

Webassign Class Key: **utep 8416 0564**

Required Technology: WebAssign account.

Recommended technology: Graphing Calculator.

Course Objectives (Learning Outcomes): Students are expected to have a clear understanding of the ideas of College Algebra as a solid foundation for subsequent courses in mathematics and other disciplines as well as for direct application to real life situations.

The content of the entire course covers topics from basic mathematics and develop them using practical and theoretical tools, building applications and making a strong support for Calculus classes.

A student passing Math 1309 College Algebra course will be able to work with the concepts of functions (functions in general, exponential and logarithmic functions, polynomial and rational functions, etc), to solve a system of linear and non-linear equations and inequalities, to make basic operations with matrices, to apply mathematical induction method,

Course Activities/Assignments: You will find all assignments on <http://webassign.net/> . Please use Mozilla Firefox or Google Chrome since WebAssign works

best with these browsers. Unannounced quizzes may be administered in the classroom.

Assessment of Course Objectives: There will be 3 exams and a final exam. -These are departmental exams and must be taken in class during the assigned date (found on the calendar). **NO EXTRA CREDIT OR CURVES ON EXAMS. If it benefits you, the score you receive on the final exam will replace your lowest exam score.**

If a student receives a grade of D or F, then they may take a comprehensive TestOut exam in June (you will be emailed the exact date). A grade of 70% or better on the TestOut exam will replace a failing course grade with a grade of C. (A grade change form will be signed and submitted by the coordinator, Mrs. Nada Al-Hanna).

If you are enrolled in both M 0313 and M 1309 and you fail both, then you will not be allowed to take the test-out exam.

Grading Policy: Your grade will be calculated as follows:

| | |
|---------------------------------|------------|
| WebAssign homework | 15% |
| Quizzes | 15% |
| Exam 1 | 15% |
| Exam 2 | 15% |
| Exam 3 | 15% |
| <u>Comprehensive Final Exam</u> | <u>25%</u> |
| Total | 100% |

The grading scale for this course is:

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

0 – 59 = F.

Drop Policy: The Last day to drop the course with a "W" is Friday, April 3rd. Students who decide to drop the course must process a drop form, in person, at the Registrar's Office, prior to 5 PM Friday, April 3rd. Please note that the College of Science will remain aligned with the University and **will not approve any drop requests after that date.**

If you are enrolled in both Math 0313 and Math 1309 and you are dropped from Math 0313, then you will be also dropped from Math 1309.

Make-up Policy: No makeup exams will be allowed except with proper documentation, i.e. doctor's note, hospital's note, or UTEP excused absence document.

Attendance Policy: As with every college course, attendance is essential for success. Try not to be absent unless it is absolutely necessary. If possible, it is better to let me know ahead of time when you will be absent. If you are absent, it is your responsibility to find out which assignments you need to make up

Civility Statement: Please do not use smart phones, smart watches, iPads, blue tooth or any smart device during quizzes and exams. Cell phones and tablets 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. Cell phone calculators may not be used on quizzes or exams. Calculators may not be shared during quizzes and exams. Active participation in class is expected, teamwork in class will be implemented. Video or pictures of lectures must have written consent from the instructor and student(s).

Disability Statement: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.utep.edu/CASS. *CASS' Staff are the only individuals who can validate and if need be, authorize accommodations for students with disabilities.*

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.

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 me as soon as possible **before** you leave.

Course Schedule:

Spring 2020 (subject to change)

| Material for Exam 1 : chapter 1 | | | | |
|--|-----------------------------|---|-------------------|---|
| Wk | Date | Day | Sections | Description |
| 1 | 1/21/2020 | Tuesday | Syllabus/1.1 | Rectangular Coordinates |
| | 1/23/2020 | Thursday | 1.1 - 1.2 | Rectangular Coordinates/Graphs of Equations |
| 2 | 1/28/2020 | Tuesday | 1.3 | Linear Equations in Two Variables |
| | 1/30/2020 | Thursday | 1.4 | Functions |
| 3 | 2/4/2020 | Tuesday | 1.5,1.6 | Analyzing Graphs of Functions/ Library of Parent Functions |
| | 2/6/2020 | Thursday | 1.6,1.7 | Library of Parent Functions/Transformations of Functions |
| 4 | 2/11/2020 | Tuesday | 1.8 | Combinations of Functions |
| | 2/13/2020 | Thursday | 1.9 | Inverse Functions |
| 5 | 2/18/2020 | Tuesday | Review | |
| | 2/20/2020 | Thursday | Exam 1 | |
| Material for Exam 2: chapter 2 & Chapter 3 | | | | |
| 6 | 2/25/2020 | Tuesday | 2.1 | Quadratic functions and Models |
| | 2/27/2020 | Thursday | 2.3,2.4 | Polynomials and Synthetic Division/Complex Numbers |
| 7 | 3/3/2020 | Tuesday | 2.4,2.5 | Complex Numbers/ Zeros of Polynomial Functions |
| | 3/5/2020 | Thursday | 2.6 | Rational Functions |
| 8 | 3/10/2020 | Tuesday | 3.1 | Exponential Functions and Their Graphs/ |
| | 3/12/2020 | Thursday | 3.2,3.3 | Logarithmic Functions and their Graphs/Properties of Logarithms |
| 9 | 3/16/2020 thru 3/20/2020 | | No Classes | Spring Break |
| 10 | 3/24/2020 | Tuesday | 3.4 | Exponential and Logarithmic Equations |
| | 3/26/2020 | Thursday | 3.5 | Exponential and Logarithmic Models |
| 11 | 3/31/2020 | Tuesday | Review | DROP DATE DEADLINE 4/3 |
| | 4/2/2020 | Thursday | Exam 2 | |
| Material for Exam 3: chapter 7 &chapter 8 | | | | |
| 12 | 4/7/2020 | Tuesday | 7.1 | Linear and Nonlinear Systems of Equations |
| | 4/9/2020 | Thursday | 7.2 | Two-Var Linear Systems |
| 13 | 4/14/2020 | Tuesday | 7.3 | Multivariable Linear Systems |
| | 4/16/2020 | Thursday | 7.4 | Partial Fractions |
| 14 | 4/21/2020 | Tuesday | 8.1 | Matrices and Systems of Equations |
| | 4/23/2020 | Thursday | 8.2,8.3 | Operations with Matrices/ The Inverse of a Square Matrix |
| 15 | 4/28/2020 | Tuesday | 8.4 | The Determinant of a square matrix |
| | 4/30/2020 | Thursday | Review | |
| 16 | 5/5/2020 | Tuesday | Exam 3 | Dead day 5/8 |
| | 5/7/2020 | Thursday | Final exam review | |
| 17 | 14-May | Final Exam on Thursday, May 14th (10:00AM-12:45PM) in the same class room | | |