

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course Number: MATH 1320-100 (CRN 23382)

Course Title: Mathematics for Social Sciences I

Credit Hrs: 3

Term: Spring 2020

Course Meetings & Location: 12-1:20 MW in LART 202

Prerequisite Courses: M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores or enrolled in a Co-Requisite (M0312)

Course Fee: (if applicable) None

Instructor: Dr. Larry Lesser (rhymes with “professor”)

Office Location: Bell Hall 213 (by the second floor water fountain)

Contact Info: Office Phone number: (915) 747-6845

Math Department Phone number: (915) 747-5761

E-mail address: Lesser@utep.edu (to make sure your email can be readily received and retrieved, please email from your miners.utep.edu account and please include 1320 in subject line)

Office Hrs: MW 10:30-11:30am and by appointment.

.Textbook: *Finite Mathematics and Applied Calculus* (7th edition), Stefan Waner and Steven Costenoble, with a WebAssign access code (specific to our section) that the instructor emailed to you

Note from Course Coordinator: WebAssign has an eBook included so we rarely encourage students to purchase the actual text as the price is pretty high. They may purchase the bundle at the bookstore, they may purchase just the code at the bookstore, or they may purchase access directly through the Cengage/WebAssign site.

Required Technology/Materials You are required to have at least a Scientific Calculator with permutation/combination key, such as the <https://education.ti.com/en/products/calculators/scientific-calculators/ti-30x-iis> which can be found for around \$12; if, however,

you have a graphing calculator such as a TI-83 or TI-84, you may find that calculator display to be even more user-friendly

ABCD voting card (print the one from our Blackboard course shell)

WebAssign homework account (see quick start guide in our Blackboard course shell)

WebAssign Class Key Will be distributed by email – it is unique to this CRN section

Course Objectives Math for Social Sciences I is a pre-calculus course designed for liberal arts, business, and non-science majors.
(Learning Outcomes):

At the successful completion of this course:

- I. A student will be able to model a situation utilizing an appropriate fundamental function (linear, quadratic, exponential, logarithmic) and solve for an unknown variable
- II. A student will be able to validate a mathematical model algebraically and graphically
- III. A student will be able to model basic financial functions (interest, annuities, loan, and bonds).
- IV. Students will be able to construct and solve systems of linear equations utilizing multiple techniques (including row reduction).
- V. A student will be able to apply fundamental set and probability properties to calculate the probability for a given situation and utilize this to make decisions on the likelihood of outcomes.

Activities and Assignments: A typical class period will consist of a combination of lecture, practice problems, or group activities. The in-class activities are not for a grade, but it is to your benefit to complete them as they are similar to your homework, quiz, and test questions.

There is a homework assignment for each section covered and a weekly quiz, all of which are to be completed through the WebAssign system. The lowest two quizzes and lowest two homework assignments will be dropped.

Three in-class exams and a comprehensive final exam will be given. **If it benefits you, the score you receive on the final exam will replace your lowest exam score.**

Maymester and Test Out: If a student receives a grade of "D" or "F", then they may register for Maymester workshop or take a comprehensive Test Out exam. A grade of 70% or better on the written comprehensive Maymester final exam or a 70% or better on the comprehensive Test Out exam, will replace a failing course grade with a grade of "C". (A grade change form will be

signed and submitted by the Math 1320 coordinator, Ms. Tuesday Johnson, Bell Hall 119, tjohnson3@utep.edu.)

Course Schedule: A comprehensive course schedule is attached as the last pages of this syllabus. Semester highlights are included.

- Wednesday Feb 5 – Census Day (Last day to drop without a W)
- **Monday Feb 24 – Exam 1**
- Spring Break, March 16 – March 20
- Cesar Chavez Day Mar 27 – No classes
- **Monday Mar 30 – Exam 2**
- Friday Apr 3 – Drop Day (Last day to drop with a W)
- **Monday May 4 – Exam 3**
- **Friday December 13, 1-3:45 pm – Final Exam (CRN 23382)**

Grading Policy: You are graded on homework, quizzes, in-class exams, and a final exam:

- 15% Homework Assignments
- 15% Quizzes
- 15% Exam I
- 15% Exam II
- 15% Exam III
- 25% Final Exam

Letter grades are determined by the following scale:

Grade	Score
A	90-100
B	80-89
C	70-79
D	60-69
F	<60

Activity-Specific Policies Calculators may not be shared on exams. Cell phone calculators or smart calculators of any kind are not permitted on exams. All personal items are to be stored at the front of the classroom during the exams (including cell phones). No note sheets are permitted. Formula sheets will be provided by the instructor.

Homework Assignment Settings: Each question has 5 attempts. The entire question needs to be submitted at once. You will be able to see the answer to the problem you just submitted. After each submission, the numbers will randomize. You may want to get help after the third incorrect submission rather than waiting until you are out of attempts. **You will receive 10% extra credit for any problems submitted 48 hours before the due date.**

Quiz Settings: Each quiz consists of 2-5 questions from the sections indicated in parentheses. Each question has two attempts and will not randomize after the first submission. **You will receive 10% extra credit for quizzes submitted at least 48 hours before the due date.**

Make-up Policy: Homework: An automatic homework extension can be requested in WebAssign within 14 days after the due date. The new due date will be 48 hours from the time the extension is requested. A 15% penalty will be applied to all problems submitted after the original due date. Problems already submitted before the original due date will be unaffected.

Quiz: There are no automatic extensions for quizzes.

If you feel like you have some extenuating circumstance, or have an excused absence that will keep you from completing the assignment or quiz in a timely manner, please contact the instructor right away and be prepared to show supporting documentation. For example, for University Sponsored Events (conferences, student athletes, etc...), the student needs to inform the instructor of any traveling conflicts before they leave and make adequate arrangements to make up the missed material within one week of returning. Failure to do so will result in the forfeiture of points.

Exam: A make-up exam will only be given in extraordinary circumstances (severe illness, death in immediate family), and with appropriate documentation (e.g. doctor's note).

Attendance Policy: As with every college course, attendance is essential for success. Try not to be absent unless it is absolutely necessary. If you are absent, it is your responsibility to find out which assignments you need to make up and to get announcements and lecture notes from a classmate.

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, submitting 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 at <https://www.utsystem.edu/offices/board-regents/regents-rules-and-regulations>.

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 their 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 themselves 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, UT 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: A student should be fully present in class, ready to learn. In order to maintain focus, smartphones, smartwatches, iPads, Bluetooth or any smart devices should be kept silent and out of sight.

It is expected that students will interact with each other in a respectful way as to maintain a positive work environment.

Videos or pictures of lectures must have prior written consent from the instructor and student(s).

Disability Statement: If you need classroom accommodations for your success, 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 <https://www.utep.edu/student-affairs/cass/>

The student is responsible for informing me of the accommodations needed and will be responsible for proactive actions in regards to having accommodations met.

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 are encouraged to contact your instructor as soon as possible.

Drop Deadlines: The last day to drop the course without a "W" is Wednesday, February 5. The last day to drop the course with a "W" is Friday, April 3. Students who decide to drop the course must process a drop form, in person, at the Registrar's Office, April 3. Please note that the College of Science will remain aligned with the University and will not approve any drop requests after that date.

Tutoring: The MaRCS tutoring center <https://www.utep.edu/science/math/marcs/> offers free tutoring and is located at the UTEP library room 218. There are several useful features of WebAssign designed to give extra help. Please also make use of instructor and/or TA office hours.

Websites: UTEP Math 1320: <http://www.math.utep.edu/classes/math1320/>

Textbook: <https://www.cengage.com/c/finite-mathematics-and-applied-calculus-7e-waner/9781337274203PF/>

WebAssign: www.webassign.net

if you're ever wondering if WebAssign is "down":

<https://techcheck.cengage.com/>

WebAssign Registration and Login 2-minute Video:

<https://play.vidyard.com/WuQeps5jUErLbnEzRzJEDy>

WebAssign Student Quick Start Guide

<https://webassign.com/support/student-support/>

24/7 tech support: 1-800-354-9706

WebAssign Student Office Hours in Bell Hall Computer Lab:

Thursday, January 23: **9 - 11am (Alan)**

Friday, January 24: **9am – Noon (Alan)**

Monday, January 27: **Noon - 3pm (Lisa)**

Tuesday, January 28: **9 -11am (Alan)**

Wednesday, January 29: **1:30 – 2:30 pm (Alan)**

Subject To Change

Week	Dates	Sections Covered	Events
1	1/20 - 1/24	Syllabus, Intro to the Course	
		1.1 Functions from 3 viewpoints	
2	1/27 - 1/31	1.2 Functions and Models	
		1.3 Linear Functions and Models	
3	2/3- 2/7	1.3 Linear Functions and Models	2/5 – Census Day (Last day to drop w/o a W)
		2.1 Quadratic Functions & Models	
4	2/10 - 2/14	2.2 Exponential Functions & Models	2/10 deadline for note on religious absences
		2.3 Logarithmic Functions & Models	
5	2/17 - 2/21	2.3 Logarithmic Functions & Models	
		Exam #1 Review	
6	2/24 - 2/28	Exam 1 on Mon. Feb. 24	Exam 1 on Mon Feb. 24
		3.1 Simple Interest	
7	3/2-3/6	3.2 Compound Interest	
		3.3 Annuities, Loans, and Bonds	
8	3/9-3/13	4.1 Systems of 2 Eqs./2 unknowns	Freshman midterm grades due March 21
		4.2 Using Matrices to Solve Systems	
9	3/16-3/20		Spring Break – No Classes
10	3/23-3/27	4.3 Applications of Systems of Eqns	Friday 3/27 Cesar Chavez Day - No classes
		Exam 2 Review	
11	3/30 - 4/3	Exam 2 Mon. March 30	Exam 2 on March 30
		7.1 Sets and Set Operations	
		7.2 Cardinality	4/3 Spring Drop/Withdrawal Deadline
12	4/6-4/10	7.3 Decision Algorithms	
		7.4 Permutations & Combinations	
13	4/13-4/17	8.1 Sample Spaces and Events	
		8.2 Relative Frequency	
14	4/20-4/24	8.3 Probability and Probability Models	
		8.4 Prob. & Counting Techniques	
15	4/27-5/1	8.5 Conditional Probability	
		Exam 3 Review	
16	5/4-5/8	Exam 3 Mon. May 4	Exam 3 Mon. May 4
		Final Exam Review	
17	5/11-5/15	Final Exam May 15 Fri. 1-3:45pm	Final exam May 15 Fri. 1-3:45pm