

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

|                              |   |
|------------------------------|---|
| <b>Course Number:</b>        | 1320, CRN 21582   |
| <b>Course Title:</b>         | Mathematics for the Social Sciences I   |
| <b>Credit Hours:</b>         | 3   |
| <b>Term:</b>                 | Spring 2017   |
| <b>Course Meeting Time:</b>  | Tu & Th 7:30–8:50 am Liberal Arts Building 103  |
| <b>Prerequisite Courses:</b> | M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores           |
| <b>Instructor:</b>           | Christy Mielke  |
| <b>Office Location:</b>      | Bell Hall 130F  |
| <b>Contact Info:</b>         | Phone # 915-747- 5452<br>E-mail: <a href="mailto:chmielke@utep.edu">chmielke@utep.edu</a> |
| <b>Office Hours:</b>         | TBA   |
| <b>Textbook, Materials:</b>  | Finite Mathematics & Applied Calculus, Waner and Constenoble, 6 <sup>th</sup> Edition.    |
| <b>Required Technology:</b>  | MS Excel and a WebAssign account.   |
| <b>WebAssign:</b>            | Go to the WebAssign <a href="#">website</a> and follow these steps:                       |

- 1) Under Username put your student ID number
- 2) Under Institution put UTEP
- 3) Under Password put your student ID number
- 4) Change your password: Click the tab that says “My Options”. Change your password to something other than your student ID number, and remember it!

You will be given a two-week grace period during which you will be able to log in without an access code. You will need to purchase an access code to log in after this period. If you purchased a new book, the code should have come with it.

|                            |   |
|----------------------------|---|
| <b>Course Information:</b> | Math 1320 is a pre-calculus course for liberal arts, business and other non-science majors. The topics covered include: <ul style="list-style-type: none"><li>• Linear, quadratic, exponential, and logarithmic functions</li><li>• Systems of linear equations</li><li>• Matrix algebra</li><li>• The mathematics of finance</li><li>• The algebra of sets</li><li>• Probability</li></ul> |
|----------------------------|---|

Students will learn mathematical concepts and methods used in management, social science, and business. Students will develop the view that mathematics is an evolving discipline that is interrelated with human culture. Students will also understand the connections of mathematics to other disciplines.

**Assignments:** There will be an in-class assignment every class period, which we will work on during class time. You are encouraged to work in groups on these assignments. You don't need to turn these in; they are for your own benefit. In addition, homework assignments will be given at the start of each new chapter. There will be a quiz once or twice a week that will be either taken directly from the homework assignments or very similar to them so it is definitely to your advantage to attempt all the problems on the homework assignments on your own. The lowest two quiz scores will be dropped.

**Assessment:** Your overall grade will consist of the weighted average of your scores on three exams, homework quizzes, WebAssign homework, and the final exam. **If it benefits you, the score you receive on the final exam will replace your lowest exam score.**

**Grading Policy:** The usual grading scale will be used for this course (90%-100% is an A, 80%-89% is a B, etc.)

|                                 |                |
|---------------------------------|----------------|
| Three exams                     | 45% (15% each) |
| WebAssign homework              | 15%            |
| Quizzes                         | 15%            |
| <u>Comprehensive final exam</u> | <u>25%</u>     |
| Total                           | 100%           |

**Make-up Policy:** Make-up quizzes will only be given for students attending university sponsored events (such as student athletes traveling to meets), and only with prior notification and appropriate documentation. 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 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.

**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.

**Civility Statement:**

Calculators may not be shared during quizzes and exams. 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. Cell phone calculators may not be used on quizzes or exams. Active participation in class is expected, teamwork in class will be implemented.

**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 or at <cass@utep.edu> or go to Room 106 Union East Building. 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 semester, please contact me by the end of the first week of class
- Course Schedule:** See last page.
- Technology:** A TI-83 or TI-84 (or similar) graphing calculator is recommended.
- Drop Deadlines:** The last day to drop the course without a "W" is Wednesday, February 1<sup>st</sup>. The last day to drop the course with a "W" is Thursday, March 30<sup>th</sup>. Students who decide to drop the course must process a drop form, in person, at the Registrar's Office, by March 30<sup>th</sup>. Please note that the College of Science will remain aligned with the University and **will not approve any drop requests after that date.**
- Tutoring:** Online tutorials can be found [here](#). The Tutoring and Learning Center (TLC) offers free tutoring and is located in the campus library. There are several useful features of WebAssign designed to give extra help. There are numerous private tutors available. Please also make use of the instructor's office hours.
- Websites:** WebAssign, [www.webassign.net](http://www.webassign.net). UTEP Math 1320 website: <http://www.math.utep.edu/classes/math1320/>

(Subject to change)

| Week | Dates       | Sections Covered                             | Events   |
|------|-------------|--|--|
| 1    | 1/16 - 1/20 | 1.1 Functions from 3 viewpoints              |  |
|      |             | 1.2 Functions and Models                     |  |
| 2    | 1/23 - 1/27 | 1.3 Linear Functions and Models              |  |
|      |             | 1.4 Linear Regression                        |  |
| 3    | 1/30 - 2/3  | 9.1 Quadratic Functions & Models             | 2/1 – Census Day<br>(Last day to drop w/o a W) |
|      |             | 9.2 Exponential Functions & Models           |  |
| 4    | 2/6 - 2/10  | 9.3 Logarithmic Functions & Models           |  |
|      |             | Exam #1 Review                               |  |
| 5    | 2/13 - 2/17 | 2.1 Simple Interest                          | <b>Exam 1</b>                                  |
|      |             |  | <b>TR</b>   <b>Thursday 2/16</b>               |
| 6    | 2/20-2/24   | 2.1 simple Interest                          |  |
|      |             | 2.2 Compound Interest                        |  |
|      |             | 2.3 Annuities, Loans, and Bonds              |  |
| 7    | 2/27-3/3    | 3.1 Systems of 2 Eqs./2 unknowns             |  |
|      |             | 3.2 Using Matrices to Solve Systems          |  |
| 8    | 3/6-3/10    | 3.3 Applications of Systems of Eqns          |  |
|      | 3/13-3/17   |  | Spring Break – No Classes                      |
| 9    | 3/20-3/24   | Exam #2 Review                               | <b>Exam 2</b>                                  |
|      |             |  | <b>TR</b>   <b>Thursday 3/23</b>               |
| 10   | 3/27-3/31   | 6.1 Sets and Set Operations                  | 3/30 Course drop deadline                      |
|      |             | 6.2 Cardinality                              | 3/31 – C. Chavez day (no class)                |
| 11   | 4/3-4/7     | 6.3 Decision Algorithms                      |  |
|      |             | 6.4 Permutations & Combinations              |  |
| 12   | 4/10-4/14   | 7.1 Sample Spaces and Events                 | 4/14 -Spring Study Day (no classes)            |
|      |             | 7.2 Relative Frequency                       |  |
| 13   | 4/17-4/21   | 7.3 Probability and Probability Models       |  |
|      |             | 7.4 Prob. & Counting Techniques              |  |
| 14   | 4/24-4/28   | 7.5 Conditional Probability                  |  |
|      |             | Exam #3 Review                               |  |
| 15   | 5/1-5/5     | 7.6 Bayes' Theorem (optional)                | <b>Exam 3</b>                                  |
|      |             | Final Exam Review                            | <b>TR</b>   <b>Tuesday 5/2</b>                 |
|      | 5/8-5/12    | <b>Thur May 11<sup>th</sup> 7:00-9:45 am</b> | <b>Final exam</b>                              |