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

Course Number: 1320, CRN 28051
Course Title: Mathematics for the Social Sciences I
Credit Hours: 3
Term: Spring 2016
Course Meeting Time: MW 9:30 am - 10:50 am at Liberal Arts Building 305
Prerequisite Courses: M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores

Instructor: Yiyu Liao
Office Location: Bell Hall 130F (MAP at UTEP)

Contact Info: E-mail: yliao2@utep.edu
Minimum e-mail etiquette is required to be answered within 48 hours. Do make sure to sign the email with your full name, the course number, and the meeting time. Please read here.

Tel: (915) 747 – 5452
Office Hours: MW 11:30 am – 1:00 pm


Required Technology: A WebAssign account, MS Excel and A TI-83 or TI-84 (or similar) graphing calculator is recommended. Free Online TI-SmartView™ Emulator Software (TI-84 Plus Family)

WebAssign: Go to the WebAssign website 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. WebAssign Student Support Help Desk here. Toll free: 800-955-8275. Local: (919) 829-8181.
Course Information:
Math 1320 is a pre-calculus course for liberal arts, business and other non-science majors. The topics covered include:

- Linear, quadratic, exponential, and logarithmic functions
- Systems of linear equations
- Matrix algebra
- The mathematics of finance
- The algebra of sets
- Probability

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:
Homework assignments will be given at the start of each new chapter. There will be a 30% extension penalty for points earned after extension, and the length of extension will be fixed (3 days). For example, if your score before extension is 100 and 50 Points earned after extension, then your final score is 135 because of penalty -15 (30% of 50). Only one request allowed for each assignment.

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. Unannounced quizzes may be administered in the classroom.

Assessment:
Your overall grade will consist of the weighted average of your scores on three exams, 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. **NO EXTRA CREDIT OR CURVES ON EXAMS.**

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Three exams</td>
<td>45% (15% each)</td>
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<tr>
<td>WebAssign homework</td>
<td>15%</td>
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<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Comprehensive final exam</td>
<td>25%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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Make-up Policy:
Late work is not accepted. 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 you are absent, it is your responsibility to find out which assignments you need to make up.

Academic Integrity:
We will follow the university’s policy in this course, as explained in the Handbook of Operating Procedures. You may find it here. You may be directed to change seats at any time during exams.

 Civility:
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 if you absolutely must answer your phone, calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please do not send text messages during class.

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.

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 me as soon as possible.

Drop Deadlines:
The last day to drop the course without a "W" is Wednesday, February 3rd, 2016. The last day to drop the course with a "W" is Friday, April 1st, 2016. Students who decide to drop the course must process a drop form, in person, at the Registrar’s Office, by April 1st, 2016. Please note that the College of Science will remain aligned with the University and will not approve any drop requests after that date.
**Incompletes:**
All grades of Incomplete must be accompanied by an Incomplete Contract that has been signed by the instructor of record, student, departmental chair, and the dean. Although UTEP will allow a maximum of one year to complete this contract, the College of Science requests it be limited to a month based upon completion data. A grade of Incomplete is only used in extraordinary circumstances confined to a limited event such as a missed exam, project, or lab. If the student has missed a significant amount of work (e.g. multiple assignments or tasks), a grade of Incomplete is not appropriate or warranted.

**Tutoring & online resources:**

Online tutorials can be found [here](#).

The MaRCS Tutoring and Learning Center (TLC) offers free tutoring and is located in the campus Library Rm#218. The main phone number is 915-747-5366. For questions and comments, please email marcs@utep.edu and visit [http://math.utep.edu/marcs/](http://math.utep.edu/marcs/).

There are several useful features of WebAssign designed to give extra help. There are numerous private tutors available. Please also make use of my office hours.

**UTEP Math 1320 website**
[www.math.utep.edu/classes/math1320](http://www.math.utep.edu/classes/math1320)

**Textbook Resource for Students:**

**Online Math Lessons & Topics – PurpleMath**
[www.purplemath.com/modules/index.htm](http://www.purplemath.com/modules/index.htm)

**Math is Fun**
[www.mathsisfun.com](http://www.mathsisfun.com)

**S.O.S. Math**
[www.sosmath.com](http://www.sosmath.com)

**Khan Academy**
[www.khanacademy.org](http://www.khanacademy.org)
<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Sections Covered</th>
<th>Events</th>
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| 1    | 1/18 – 1/22 | 1.1 Functions from three viewpoints  
1.2 Functions and Models              | HW Quiz 1                                  |
| 2    | 1/25 – 1/29 | 1.3 Linear Functions and Models  
1.4 Linear Regression                  |                                             |
| 3    | 2/1 – 2/5   | 9.1 Quadratic Functions & Models  
9.2 Exponential Functions & Models     | HW Quiz 2  
2/3 – Census Day;  
Last day to drop w/o a W               |
| 4    | 2/8 – 2/12  | 9.3 Logarithmic Functions & Models  
Exam 1 Review                          | HW Quiz 3                                  |
| 5    | 2/15 – 2/19 | 2.1 Simple Interest                                                              | Exam 1  
2/17 – NO CLASS                          |
| 6    | 2/22 – 2/26 | 2.2 Compound Interest  
2.3 Annuities, Loans, and Bonds       | HW Quiz 4                                  |
| 7    | 2/29 – 3/4  | 3.1 Systems of 2 Eqs./2 unknowns  
3.2 Using Matrices to Solve Systems    | HW Quiz 5                                  |
| 8    | 3/7 – 3/11  | 3.3 Applications of Systems of Eqns  
Exam 2 Review                           | Spring Break – No Classes                  |
| 9    | 3/14 – 3/18 | 6.1 Sets and Set Operations                                                      |                                               |
| 10   | 3/21 – 3/25 | 6.2 Cardinality  
6.3 Decision Algorithms               | Exam 2                                      |
| 11   | 3/28 – 4/1  | 6.4 Permutations & Combinations  
7.1 Sample Spaces and Events           | HW Quiz 7  
4/1 – Course drop deadline w/ a W      |
| 12   | 4/4 – 4/8   | 7.2 Relative Frequency  
7.3 Probability and Probability Models | HW Quiz 8                                  |
| 13   | 4/11 – 4/15 | 7.4 Prob. & Counting Techniques  
7.5 Conditional Probability             | HW Quiz 9                                  |
| 14   | 4/18 – 4/22 | 7.6 Bayes’ Theorem (optional)                                                    | HW Quiz 10                                 |
| 15   | 4/25 – 4/29 | Exam 3 Review  
Exam 3 Review                         | HW Quiz 11                                 |
| 16   | 5/2 - 5/6   | Final Exam Review                                                                 | Exam 3                                      |
| 17   | 5/9 – 5/13  | Wed, 5/11, 10:00 am – 12:45 pm                                                  | Final Exam                                  |