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

Course Number: 1320, CRN 11869  
Course Title: Mathematics for the Social Sciences I  
Credit Hours: 3  
Term: Fall 2014  
Course Meeting Time: None – course is entirely online  
Prerequisite Courses: M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores  
Instructor: C. Mundy-Castle  
Office Location: Bell Hall 115  
Contact Info: (915) 747-7794  
E-mail: cmmundy@utep.edu  
Office Hours: TBA  
Required Technology: MS Excel and a WebAssign account.  

WebAssign: WebAssign is an online Course Management System of Cengage, the publisher of our text. You will use the instructions included in Blackboard to access and register for WebAssign. WebAssign has a 14 day free trial so that you may access your course work immediately. Important to know: For Assigned Readings and Practice Problems - you have unlimited submissions, you can save your work as you go without using a submission, you will a 5% bonus if you submit your assignment 24 hours before the due date and you will have access to Tools such as read about it, watch it, master it and practice another version. For homework you will have 5 submissions, you will earn 5 pts. for early submission BUT you will NOT have access to tools; likewise, for exams you will not have access to tools.  

To log in: go to the WebAssign website and follow these steps:  

1) Under Username put your 800 number  

2) Under Institution put UTEP  

3) Under Password put your 800 number  

4) Change your password: Click the tab that says “My Options”. Change your password to something other than your 800 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 from the UTEP bookstore, the code should have come with it. Otherwise you’ll have to buy one through the WebAssign site or this microsite. E-book w/code is $75 on the WebAssign site, $65 on the micro-site.
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.

Daily Activities: Daily activities are: Assigned Readings, Practice Problems, Homework, and the Personal Study Plan. You will be responsible to access WebAssign to review the lessons in the e-text, watch all the videos, tutorials, and PowerPoints given in the daily activities, ask questions about the lessons and submit each assignment on time. All daily activities are due on Sunday night at 11:59PM of the week in which they are assigned.

Assessment: Your overall grade will consist of the weighted average of your scores on three exams, daily activities, 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.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Weightage</th>
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<tbody>
<tr>
<td>Three exams</td>
<td>51% (17% each)</td>
</tr>
<tr>
<td>Daily activities</td>
<td>24%</td>
</tr>
<tr>
<td>Comprehensive final exam</td>
<td>25%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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Make-up Policy: 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).

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.

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.

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, September 10th. The last day to drop the course with a "W" is Friday, October 31st. Students who decide to drop the course must process a drop form, in person, at the Registrar's Office, by October 31st.

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
UTEP Math 1320 website
Instructor’s website – check this site for announcements.
Facebook site – visit this site to ask questions to the instructor or to other students. Announcements will also be made on the FB site.
<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Sections Covered</th>
<th>Events</th>
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</table>
| 1    | 8/25 – 8/29 | 1.1 Functions from three viewpoints  
1.2 Functions and Models |                                                   |
| 2    | 9/1 – 9/5  | 1.3 Linear Functions and Models  
1.4 Linear Regression | 9/1 – Labor Day – No Classes                     |
| 3    | 9/8 – 9/12 | 9.1 Quadratic Functions & Models  
9.2 Exponential Functions & Models | 9/10 – Census Day  
(Last day to drop w/o a W)               |
| 4    | 9/15 – 9/19 | 9.3 Logarithmic Functions & Models  
Exam #1 Review |                                                   |
| 5    | 9/22 – 9/26 | 2.1 Simple Interest | Exam 1 this week  
(Exact date TBA)               |
| 6    | 9/29 – 10/3 | 2.2 Compound Interest  
2.3 Annuities, Loans, and Bonds |                                                   |
| 7    | 10/6 – 10/10 | 3.1 Systems of 2 Eqs./2 unknowns  
3.2 Using Matrices to Solve Systems |                                                   |
| 8    | 10/13 – 10/17 | 3.3 Applications of Systems of Eqns  
Exam #2 Review |                                                   |
| 9    | 10/20 – 10/24 | 6.1 Sets and Set Operations | Exam 2 this week  
(Exact date TBA)               |
| 10   | 10/27 – 10/31 | 6.2 Cardinality  
6.3 Decision Algorithms | 10/31 – Course drop deadline                     |
| 11   | 11/3 – 11/7 | 6.4 Permutations & Combinations  
7.1 Sample Spaces and Events |                                                   |
| 12   | 11/10 – 11/14 | 7.2 Relative Frequency  
7.3 Probability and Probability Models |                                                   |
| 13   | 11/17 – 11/21 | 7.4 Prob. & Counting Techniques  
7.5 Conditional Probability |                                                   |
| 14   | 11/24 – 11/28 | Exam #3 Review  
7.6 Bayes’ Theorem (optional) | 11/27-28 Thanksgiving  
Holiday No classes               |
| 15   | 12/1 - 12/5  | 7.6 Bayes’ Theorem (optional)  
Final Exam Review | Exam 3 this week  
12/5 – Dead Day, no classes |
| 16   | 12/8 – 12/12 | Final exam date TBA | Final exam week                                 |

**Week** | **Dates** | **Sections Covered** | **Events**