Course Number: 1320, CRN 28049  
Course Title: Mathematics for the Social Sciences I  
Credit Hours: 3  
Term: Spring 2016  
Course Meeting Time: 1:30 pm - 2:20 pm MWF Liberal Arts Building 203  

Prerequisite Courses: M0311 or TSI score between 350 – 390 or placement by previous Accuplacer scores  
Instructor: Andrew Dynneson  
Office Location: Bell Hall 215  
Contact Info: dynnesonTeaching@gmail.com  
Office Hours: Monday & Wednesday 9:30 to 10:20 or by appointment (Please send me an email even when you are going to the usual office hour).  


Required Technology: MS Excel and a WebAssign account.  

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.  

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:**
Determined by instructor. (There will be an in-class assignment sometimes during the 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 an occasional quiz 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, 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.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Three exams</td>
<td>45% (15% each)</td>
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<tr>
<td>WebAssign HW</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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<td>Total</td>
<td>100%</td>
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**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:**
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.

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 3rd. The last day to drop the course with a "W" is Friday, April 1st. Students who decide to drop the course must process a drop form, in person, at the Registrar's Office, by April 1st. 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 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.

Dynneson Rules:

- **Website:** [userwww.sfsu.edu/dynneson/classes/](userwww.sfsu.edu/dynneson/classes/)
  >> Click on your class.

1. **Sign into class each lecture.** There is a link on the class website for which to sign-in. I will keep a roll for my records. I will not be using your attendance as part of your grade, however attendance is advised, as I will be covering things that are not in the book.

- **Homework:**
  1. Print your WebAssign homework assignment and turn it in physically when it is due. This way I will have a hardcopy of your homework in case something happens with your account.
  2. **The Following is for *Students who are having trouble with WebAssign:***
     Toll free: 800.955.8275
     Student Support Hours
     Monday–Thursday, 9 a.m. – 10 p.m. ET
     Friday, 9 a.m. – 8 p.m. ET
     Sunday, 11 a.m. – 8 p.m. ET
  3. For online homework extensions, please send an extension request through WebAssign, in addition to sending me an email (extension requests are given low-priority, so it is advised that you come to an office-hour).

- **Office Hours:**
  1. Please send me an email letting me know that you will be attending office hours (You can also include context of the meeting in the email).
  2. If my regular office hour does not work with your schedule, please contact me and we can set up an appointment.

- **Emails:**
  1. Please direct all emails to dynnesonTeaching@gmail.com (the UTEP mail system looses emails).
  2. All emails must mention which Class and Section you are taking, and your name should also be included.
  3. Please include an appropriate *Subject Title* for the email. For example, when replying to an announcement, but you have an unrelated question, either start a new email, or edit the Subject to start a new thread. Please keep replies to an email on the same thread.
  4. If I have not replied to your email after one week, please talk to me after class.
(emails occasionally get lost in the UTEP mail system).
5. If you are not receiving my emailed announcements, please talk to me after class asap.

• **Miscellaneous:**
  1. Technology use is encouraged during the class, however please keep your devices on silent.
  2. Class participation (asking and answering questions) is encouraged, but not required. Do not worry about appearing intelligent/unintelligent, as I try not to look at the names when grading Final exams. It is better to look unintelligent during class then to answer a question incorrectly on an exam!
    ◦ Sometimes if you are confused on something, this is actually an opportunity to expand the body of mathematical knowledge, or to discover a new way of explaining something. I often learn from my students in this way.
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<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Sections Covered</th>
<th>Events</th>
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<tbody>
<tr>
<td>1</td>
<td>1/18 – 1/22</td>
<td>1.1 Functions from three viewpoints&lt;br&gt;1.2 Functions and Models</td>
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<td>2</td>
<td>1/25 – 1/29</td>
<td>1.3 Linear Functions and Models&lt;br&gt;1.4 Linear Regression</td>
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<td>3</td>
<td>2/1 – 2/5</td>
<td>9.1 Quadratic Functions &amp; Models&lt;br&gt;9.2 Exponential Functions &amp; Models</td>
<td>2/3 – Census Day&lt;br&gt;(Last day to drop w/o a W)</td>
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<td>4</td>
<td>2/8 – 2/12</td>
<td>9.3 Logarithmic Functions &amp; Models&lt;br&gt;Exam #1 Review</td>
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<tr>
<td>5</td>
<td>2/15 – 2/19</td>
<td>2.1 Simple Interest</td>
<td>Exam 1 this week&lt;br&gt;(Exact date TBA)</td>
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<td>6</td>
<td>2/22 – 2/26</td>
<td>2.2 Compound Interest&lt;br&gt;2.3 Annuities, Loans, and Bonds</td>
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<td>7</td>
<td>2/29 – 3/4</td>
<td>3.1 Systems of 2 Eqs./2 unknowns&lt;br&gt;3.2 Using Matrices to Solve Systems</td>
<td>Spring Break – No Classes</td>
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<td>8</td>
<td>3/7 – 3/11</td>
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<td>9</td>
<td>3/14 – 3/18</td>
<td>3.3 Applications of Systems of Eqns&lt;br&gt;Exam #2 Review</td>
<td>3/17 Campus closed ^_^</td>
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<td>10</td>
<td>3/21 – 3/25</td>
<td>6.1 Sets and Set Operations</td>
<td>Exam 2 this week&lt;br&gt;(Exact date TBA)</td>
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<td>3/25 – C. Chavez day (no class)&lt;br&gt;3/25 -Spring Study Day (no classes)</td>
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<td>11</td>
<td>3/28 – 4/1</td>
<td>6.2 Cardinality&lt;br&gt;6.3 Decision Algorithms</td>
<td>4/1 Course drop deadline</td>
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<td>12</td>
<td>4/4 – 4/8</td>
<td>6.4 Permutations &amp; Combinations&lt;br&gt;7.1 Sample Spaces and Events</td>
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<tr>
<td>13</td>
<td>4/11 – 4/15</td>
<td>7.2 Relative Frequency&lt;br&gt;7.3 Probability and Probability Models</td>
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<td>14</td>
<td>4/18 – 4/22</td>
<td>7.4 Prob. &amp; Counting Techniques&lt;br&gt;7.5 Conditional Probability</td>
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<td>15</td>
<td>4/25 – 54/29</td>
<td>Exam #3 Review&lt;br&gt;7.6 Bayes’ Theorem (optional)</td>
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<td>16</td>
<td>5/2 - 5/6</td>
<td>7.6 Bayes’ Theorem (optional)</td>
<td>Exam 3 this week</td>
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<td>5/9 – 5/13</td>
<td>Final exam is Wednesday May 4th at 4:30-6:45 in our usual meeting place</td>
<td>Final exam week</td>
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