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

Course #: Math 1320, CRN 12931
Course Title: Mathematics for the Social Sciences I
Credit Hrs: 3.0
Term: Fall 2008
Course Meetings: TR 6:00PM – 7:20PM
Location: LART 307
Prerequisite Courses: Math 0311, or Accuplacer Score of 35 or higher

Instructor: Francisco Avila
Office Location: Classroom Building 404C
Contact Info: 747-8908 Phone #
favila2@utep.edu E-mail address
747-6502 Fax #
747-5761 Emergency Contact (Math Department)
Office Hrs: MTWR 4:50pm – 5:50 or by appointment

Textbook(s), Materials: Required: Mathematics & Applied Calculus by Waner and
Costenoble, 4th Edition
TI-83 or TI-84 Calculator
MS Excel
WebAssign Account

Course Objectives
(Learning Outcomes):
1. Apply algebraic, geometric, and statistical methods to modeling
   and solving real-world problems.
2. Represent and evaluate mathematical information verbally,
   numerically, graphically and symbolically.
3. Expand mathematical reasoning skills and formal logic to
   develop convincing mathematical arguments.
4. Use technology to enhance mathematical thinking and
   understanding.
5. Use technology to solve mathematical problems and judge the
   reasonableness of the results.
6. Interpret mathematical models such as formulas, graphs, tables
   and schematics.
7. Draw inferences from mathematical models.

Course Activities/Assignments: Sign up with our WebAssign course key here:
http://www.webassign.net/

When first signing onto WebAssign, click on the red “Log In” button on
the left hand side of the page. Then click on “I have a Class Key.” Enter
this key: utep 6468 9346. Follow the log-in instructions to create your
own user id and password. For future log ins, use your user id and
password.
Assessment of Course Objectives:

**Exams.** Three exams will be given. The dates of the exams will be announced in class (Exam’s dates on the schedule may change). There are no make-ups.

**Homework.** Most of our homework will be done online, through [www.webassign.net](http://www.webassign.net).

**Quizzes and Group Work.** At least one quiz or group work assignment will be given each week. There are no make-ups.

**Final Exam.** The comprehensive final exam will be given on **Thursday, December 11, 7:00PM – 9:45PM.**

Grading Policy: **Grade Calculations:** Your grade will be calculated in two ways. The higher of the two will determine your course grade:

Grade 1 = 60% (Exams) + 10% (Homework) + 10% (Quizzes/Group Work) + 20% (Final)

Grade 2 = 70% (Final Exam) + 15% (Homework) + 15% (Quizzes/Group Work)

**Bonus Test-Out Exam:** For students who earn either a D or F after taking the final, an optional Test-Out Exam may be taken on either Thursday, December 18, or Friday, December 19. The test is a WebAssign exam that must be taken in the Library, Room 204A\B, with a start time between the hours of 7AM and 3PM. Students will be allowed 3 hours to complete the exam. A passing score of 70% or above will result in a grade change to a C in the course. This is a bonus exam, and the dates and times offered cannot be changed.

Make-up Policy: Make-up quizzes will be given only in extraordinary circumstances, which must be documented as early as possible. No late homework accepted. **There is no makeup final exam** and anybody who misses the test will automatically receive an F in the class.

Attendance Policy: As with every college course, attendance is essential for success. Try not to be absent unless it is absolutely necessary.

Academic Integrity Policy: It is the official policy of the university 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. For further information, please refer to: [http://academics.utep.edu/Default.aspx?tabid=23785](http://academics.utep.edu/Default.aspx?tabid=23785) or [http://www.lib.iastate.edu/commons/resources/facultyguides/plagiarism/dishonest.html](http://www.lib.iastate.edu/commons/resources/facultyguides/plagiarism/dishonest.html).
Civility Statement: It is the student’s responsibility to attend every class, if you miss a class, you will miss a lot of information. If you try to go from one class to another without studying, you will most likely be completely lost during the next class. Students are expected to arrive for class on time and to remain for the class entire period. It is essential to pay attention in class and take legible notes. It is important to read the textbook and work through the example problems given in the book and class. A graphing calculator is required. 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. Cell phone calculators may not be used on quizzes or exams. Failure to accomplish the above, as a minimum almost invariably ensures a less than satisfactory grade for this course.

Disability Statement: If a student has or suspects he/she has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS 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 (August 29).

Course Schedule: 8/25 – 8/29
Section 1.1: Functions – Algebraic Viewpoint
Section 1.2: Functions – Graphical Viewpoint
Section 1.3: Linear Equations

9/1 – 9/5
Section 1.4: Linear Models
Section 1.5: Linear Regression

9/8 – 9/12
Section 9.1: Quadratic Functions & Models
Census Day – Wednesday, September 10

9/15 – 9/19
Review (If time allows)
Section 9.2: Exponential Functions
Exam #1 – Wednesday

9/22 – 9/26
Section 9.3: Logarithmic Functions

9/29 – 10/3
Section 2.1: 2x2 Systems
Section 2.2: Using Matrices to Solve Systems

10/6 – 10/10
Section 2.3: Applications of Systems
Section 5.1: Simple Interest

10/13 – 10/17
Section 5.2: Compound Interest
Section 5.3: Sinking Funds and Annuities
10/20 – 10/24   Section 5.3: Annuities and Loans
                Review (If time allows)
                Exam #2 – Friday

10/27 – 10/31   Section 6.1: Sets and Set Operations
                Section 6.2: Cardinality
                Section 6.3: Addition and Multiplication Principles
                Drop Deadline – Friday, October 31

11/3 – 11/7     Section 6.4: Combinations and Permutations

11/10 – 11/14   Section 7.1: Sample Spaces and Events
                Section 7.2: Est. & Theoretical Probability

11/17 – 11/21   Section 7.3: Probability Distributions
                Section 7.4: Probability and Counting Techniques

11/24 – 11/28   Section 7.5: Conditional Probability
                Review (If time allows)
                Exam #3 – Wednesday
                No classes – Thursday, Friday

12/1 – 12/5     Section 7.6: Bayes’ Theorem
                No classes – Friday, December 5