

**Math 1303 – Section 01 – Fall 2011**  
**Pre-Calculus for Business and Social Sciences**  
**MWF 9:00-9:50, DAL 306**

<b>Instructor:</b> Adriana Aceves <b>Office hours:</b> MWF 11:00-12:00 and 2:00-3:00, Th 11:00-12:00, or by appointment <b>Text:</b> College Mathematics for Business, Economics, Life Sciences, 12 <sup>th</sup> Edition; Barnett, Ziegler, and Byleen <b>Calculator:</b> TI 83 Plus recommended, not required	<b>Office:</b> Clements 208A <b>Phone Number:</b> (214) 768 - 1886 <b>Email:</b> acevesa@smu.edu
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**Please note the following guidelines for the course.**

**- Learning Outcomes:**

1. Students can solve linear, exponential, logarithmic, and quadratic equations.
2. Students can solve systems of equations and systems of inequalities including linear programming.
3. Students can graph functions using transformations.
4. Students can identify arithmetic and geometric sequences and series, find a formula for the  $n$ th term, and find a sum of the first  $n$  terms.

**- Grades:** Your grade will be based on the following

3 in class tests:	60%
Final exam:	30%
Quizzes and assignments:	10%

**- Calculator policy:** Graphing calculators may be used on tests and quizzes but ALL WORK must be showed to receive credit for any answer. A scientific calculator may be necessary on tests, including the Final Exam.

**- Homework:** Your homework is your most important effort in this class; homework is how you actually learn the material that will be on the quizzes and exams. Expect to do 2-3 hours of homework for every hour of class meeting time (on average 10-15 hours per week). Keep all of your homework together in a folder so that if you are having trouble in the course, you can bring it with you when you go to see your instructor or get tutoring.

**- Attendance:** is mandatory, and if you have three or more unexcused absences, you may be dropped from the class. Please refrain from leaving class early unless you have a valid reason, in which case you must inform your instructor at the beginning of that period.

Students participating in an officially sanctioned, scheduled University extracurricular activity will be given the opportunity to make up class assignments or other graded assignments missed as a result of their participation. It is the responsibility of the student to make arrangements with the instructor prior to any missed scheduled examination or other missed assignment for making up the work.

Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester, and should discuss with them, in advance, acceptable ways of making up any work missed because of the absence.

**- Exams:** If you miss an exam, contact your instructor immediately. Make-up tests will only be given in appropriate circumstances (illness, family emergencies, religious and university-sanctioned activities). If you miss an exam and do not contact your instructor within a week, you will be dropped from the class. Reviews for exams will be posted on blackboard and are due at the time of the test.

**- Student Behavior:** Students must adhere to the SMU Code of Conduct. Student activities that interfere with the rights of others to pursue their education or to conduct their University duties and responsibilities will lead to disciplinary action. This includes any activities that are disruptive to the class and any acts of academic dishonesty. Students are expected to behave in a courteous and respectful manner towards the instructor and their fellow students.

**- Students with Disabilities:** Students needing academic accommodations for a disability must first be registered with Disability Accommodations & Success Strategies (DASS) to verify the disability and to establish eligibility for accommodations. Students may call 214-768-1470 or visit <http://www.smu.edu/alec/dass.asp> to begin the process. Once registered, students should then schedule an appointment with the professor to make appropriate arrangements.

**- Help Sessions:** M-Th 4:30-7:30, 225 Clements Hall. All students in this class are strongly encouraged to attend.

**Final Exam: Friday, December 9, 11:30 AM - 2:30 PM**

<u>Week of</u>	<u>Topic</u>	<u>Homework</u>
Aug 22	A.2 Operations on Polynomials A.3 Factoring Polynomials A.4 Operations on Rational Expressions	11,17,19,21,25,27,28,35,42,43,55,59 1-55 (odd) 1-29 (odd)
Aug 29	A.5 Integer Exponents A.6 Rational Exponents and Radicals A.7 Quadratic Equations	1-45 (odd) 1-47 (odd), 55-65 (odd), 83-87(odd) 1-29 (odd), 43
Sept 5	<b>September 5 – Labor Day - no class</b> 1.1 Linear Equations and Inequalities 1.2 Graphs and Lines	1-35 (odd) 1-33 (odd), 41-53 (odd), 61,63
Sept 12	4.1 Systems of Linear Equations in Two Variables 4.2 Systems of Linear Equations and Augmented Matrices	5, 9-17 (odd), 57,59,63 (parts a, b, and c only for last 3 problems) 45,49,53
Sept 19	4.3: Gauss-Jordan Elimination 5.1 Inequalities in two variables. Review for Test 1 <b>Test 1: Friday September 23</b>	39,41,65(a) 1,5,9,11(a),33,43  Review 1 due at the time of the test
Sept 26	5.2 Systems of Linear Inequalities in Two Variables 5.3 Linear Programming	5,13,17,23  9,11,31(a),33(a)
Oct 3	2.1 Functions 2.2 Elementary Functions: Graphs and Transformations	1-35 (odd), 39-59 (odd), 77,79,89(a),91(a),107 1-53 (odd)
Oct 10	<b>Fall Break, October 10 - 11</b> 2.3 Quadratic Functions 2.4: Polynomial Functions	1-27 (odd) 3,5,7,9,11,13,15
Oct 17	2.4 Rational Functions 2.5 Exponential Functions 2.5 Logarithmic Functions	25(abc), 27(abc), 33,37,39,41,45-51 (odd) 3-19 (odd),29-37 (odd) 1-33 (odd),43-67 (odd)
Oct 24	Overview of functions Review for test 2 <b>Test 2: Wednesday, October 26</b>	  Review 2 due at the time of the test
Oct 31	B.1 Sequences, Series, and Summation Notation B.2 Arithmetic and Geometric Sequences Nov 4 – Last day to drop	
Nov 7	3.1 Simple Interest 3.2 Compound and Continuous Compound Interest	
Nov 14	3.3 Future Value of Annuity; Sinking Fund 3.4 Present Value; Amortization Review for test 3	
Nov 21	<b>Thanksgiving Break, November 23-27</b> <b>Test 3: Monday, November 21</b>	Review 3 due at the time of the test
Nov 28	Catch-up Review for Final Exam	
Dec 5	Dec 5 - Last day of instruction Review for Final Exam Dec 6 – Reading day	
Dec 9	<b>Final Exam at 11:30 AM</b>	

