MTH 098
Spring 2016
Fundamental Mathematics (Elementary Algebra)
Department of Mathematics and Statistics Class Syllabus

Instructor: Dr. Robert Fleet Office: NM-339

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Office Phone: 468-1834 Math Department Phone: 936-468-3805

Class meeting time and room: 098:001, 8-8:50 MWF, Rm 210; 098:002, 9-9:50, Rm 210; 098:003, 11-11:50, Rm 206

Office Hours…These hours have been set aside specifically to help students:
10-11 MWF, 2-3 M-Th

Available other times by appointment

Textbook: Elementary Algebra, 3rd edition by Sullivan, et al. Pearson Publishing Co. Your teacher will tell you if the text will be optional or required for your course.

Website: All students must have an account on MyMathLabPlus (MML+.) The access code can be purchased at bookstores serving the college or online at http://sfasu.mylabsplus.com. The ISBN is 9780558926809. Your MML+ user name is your MySFA user name, and your initial password is mymathlab.

Purpose: The purpose of this course is to prepare students to be successful in MTH 099, and subsequently in one of SFA's credit mathematics courses.

Placement: Students not exempt from testing who score below 350 on the TSI Assessment will be placed into developmental math courses by the Academic Advising Center. Placement into an entry-level credit math class (MTH 110, 127, 138, 143, or 220) is based on a TSI Assessment score of at least 350 or at least an RC in MTH 099. Our purpose in this class is to prepare you to pass MTH 099.

NOTE: “Passing” the TSI Assessment does not equate to passing MTH 098! If you place out of MTH 098 during the semester, you should continue participating in the course to prepare for MTH 099, otherwise you will receive a QF final grade in MTH 098. The placement test does not prepare you for MTH 099! If you plan to place out of MTH 098, you should attempt this before the last date to drop/add so you can switch courses.

Disabilities: To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For more information see: http://www.sfasu.edu/disabilityservices.

Additional Help: To sign up for free tutoring, go to the Academic Assistance and Resource Center (AARC) webpage (http://library.sfasu.edu/aarc/) and click the “Weekly Appointments” link. If you sign up early enough, you can reserve a tutor for the entire semester. A walk-in table is also available 1:00 – 8:00 Mon-Thurs, and 4:00 – 8:00 Sunday. The AARC is on the right side of the first floor of Steen Library.
Assessment: Your grade will be determined by three regular exams, a comprehensive final, and daily work in the form of homework and quizzes (mostly online). The formula for calculating your final average is

Final Ave. = 0.45(Exam Ave.) + 0.25(Daily Ave.) + 0.30(Final).

A passing final exam grade (at least 70%) can be used to replace one lower exam grade.

Your letter grade will be assigned according to the usual grading convention:

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Letter Grade</th>
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</thead>
<tbody>
<tr>
<td>90-100%</td>
<td>RA</td>
</tr>
<tr>
<td>80-89.9%</td>
<td>RB</td>
</tr>
<tr>
<td>70-79.9%</td>
<td>RC</td>
</tr>
<tr>
<td>60-69.9%</td>
<td>RD</td>
</tr>
<tr>
<td>Less than 60%</td>
<td>RF</td>
</tr>
</tbody>
</table>

To pass the course you must have an overall class average of at least an RC (70%).

Makeup Policy: There will be no retests or make-up daily grades. A missed exam (grade of 0%) can be made up by making at least 70% on the final.

Commitment: You must make a commitment to attend every class, to arrive on time and to stay the entire time. You must make a commitment to work in class by taking notes and working the examples given. You must make an additional commitment of doing work outside of class. Remember the college rule: “For every one hour in class, students should spend two to three hours out of class doing daily work and studying for exams.” Each section covered is followed by a HW assignment (average time about 1 hour, 15 minutes) and then a quiz (average time about 20 minutes). This is not high school! You must make a commitment to get help when you don’t understand what you are being asked to do. The more committed you are, the more successful you will be.

Drops and Repeats: Students in state-funded Texas colleges and universities are not be allowed to drop (with a grade of W) more than six courses total, including courses from transfer schools. In addition, the state will fund a maximum of 18 total hours (including repeats) of non-credit coursework. After that limit is reached, students will pay much more per class. For more information, contact the Registrar’s Office or your instructor.

Withheld Grades: Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course. The circumstances precipitating the request must have occurred after the official drop date. Students requesting a WH must be passing the course with a minimum projected grade of C.

Tardiness: Students are expected to be on time to class and to stay the entire period.

Participation: Bring textbooks, calculator, paper, and writing instrument to each class. You must be attentive to the task at hand, take notes, and be prepared to participate in class discussions. Be respectful of your peers and instructor. Texting during class (or other off-task activities) will be cause for dismissal. Students who do not attend class regularly or who perform poorly on class work may be referred to the Early Alert Program. This program provides students with resources and other assistance that is available to help SFA students succeed.

Acceptable Student Behavior: Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties.
The instructor shall have full discretion over what behavior is appropriate in the classroom. **Cheating**: Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

**Definition of Academic Dishonesty**
Academic dishonesty includes both cheating and plagiarism. **Cheating** includes but is not limited to (1) using, or attempting to use, or having in possession unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; (3) possession of current keys/exams prior to test time; (4) alteration of records; and (5) helping or attempting to help another in an act of cheating or plagiarism. **Plagiarism** is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit (copying from another’s paper).

Any student caught cheating, aiding another student in cheating, or appropriating the words or work of others without proper citation will be subject to academic discipline. **It is the responsibility of the student not only to abstain from cheating, but in addition, to avoid the appearance of cheating, and to guard against making it possible for others to cheat.** Penalties are given at the discretion of the instructor and range from receiving zeros for the work done to dismissal from the course and/or University. Violations are tracked by the dean's office.

Please read the complete policy at [http://www.sfasu.edu/policies/academic_integrity.asp](http://www.sfasu.edu/policies/academic_integrity.asp)

**Student IDs**: You must show your student picture ID before exams. No ID, no exam!

**Technology**: No calculators are allowed on the first exam. You may use a four-function (+, −, ×, ÷) calculator on exams 2, 3, and 4 AFTER you pass the arithmetic test. (See next paragraph.) **No cell phones, PDAs, earphones, or other electronic gadgets will be allowed during exams!** In addition, turn off and put away all cell phones and texting devices during regular class periods. Texting in class is grounds for dismissal!

**Arithmetic Test**: All students must pass an arithmetic test with 85% accuracy in order to pass this course. This test will consist of about 15 arithmetic problems from grade-school mathematics, and it may be taken more than once, but the deadline for passing the test will be the week before finals. The specific skills being tested are operations on signed numbers, operations on common fractions, and elementary order of operations. This material will be covered during the early part of the semester. A sample test, worksheets, and online practice will also be provided. Your teacher will be happy to help you with this material out of class, or you can get help at the AARC. Once you pass the arithmetic test you will be allowed to use a four-function calculator on all exams after the first. See supplemental handout for more information.

**Homework and Quizzes**: The homework below is from the text for extra practice. All graded HW must be done on computer with MyMathLab+ (MML+). You will have a quiz over each section after you have scored at least 90% on the HW assignment. **Note**: the section quizzes will not be available until you have made at least 90% on the section HW! All exam questions will be similar to the problems below and the ones on the MML+ homework and quizzes. The URL to access your online HW and Quizzes is [http://sfasu.mylabsplus.com](http://sfasu.mylabsplus.com). **Your MML+ user name is your MySFA username, and your MML+ password is mymathlab (lowercase.)**

**HQ Notebook**: When you do your MML online exercises, keep your work organized in an orderly fashion in either a spiral bound or flip-top notebook. Write down the section heading and copy each problem, showing all the proper steps to the solution in your notebook. After arriving at a solution, transfer the answer to the computer for feedback and grading.
**Calendar:** The following calendar is tentative and subject to change with notification from your instructor. If you miss a class, be sure to contact your teacher or a classmate for the assignment. These problems are for reference only! All graded HW must be done on MyMathLab.

<table>
<thead>
<tr>
<th>Week</th>
<th>Ch.</th>
<th>Topic</th>
<th>Reference Problems from Book for Extra Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 18</td>
<td></td>
<td>Course Introduction and MyLabsPlus training</td>
<td>MLK Day</td>
</tr>
<tr>
<td>Jan. 25</td>
<td>1.2</td>
<td>Fractions, decimals, percent (part 1)</td>
<td>P.16: 2-5, 8,9,11, 14-20, 23-31, 61,77, 79, 85, 109</td>
</tr>
<tr>
<td>Feb. 1</td>
<td>1.2</td>
<td>Fractions, decimals, percent (part 2)</td>
<td>P.16: 32-48, 119, 129-139 odd</td>
</tr>
<tr>
<td>Feb. 8</td>
<td>1.3</td>
<td>Number systems and the real number line</td>
<td>P.25: 1-11, 13, 15-25, 27, 33, 37, 39, 69</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>1.4</td>
<td>Operations on integers (signed #s) part 1</td>
<td>P.35: 1,8,13-15, 18-22, 45-61 odd, 65-77 odd, 125, 129, 131, 145</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>1.4</td>
<td>Operations on integers (signed #s) part 2</td>
<td>P.35: 27-31, 33-42, 81-99 odd, 103, 105, 109, 123, 135</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>1.5</td>
<td>Operations on rational #s (fractions) part 1</td>
<td>P.46: 1-14, 45-51 odd, 57-65 odd, 105, 107, 121</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>1.5</td>
<td>Operations on rational #s (fractions) part 2</td>
<td>P.46: 15-36, 69-83 odd, 103, 109, 111, 115</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>1.6</td>
<td>Properties of real numbers</td>
<td>P.54: 1, 5-14, 17, 18, 29-43 odd, 55</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>1.7</td>
<td>Exponents and order of operations (part 1)</td>
<td>P.62: 1-9, 33-41 odd, 45-53 odd</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>1.7</td>
<td>Exponents and order of operations (part 2)</td>
<td>P.62: 10-18,20,22-26,55,59,61,71,75,77, 103, 109</td>
</tr>
<tr>
<td>Feb. 15</td>
<td></td>
<td>To practice for Exam 1, work Optional Extra Practice HW for sections 1.2-1.7.</td>
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<tr>
<td>Feb. 22</td>
<td>1.8</td>
<td>Simplifying algebraic expressions (part 1)</td>
<td>P.69: 1-25</td>
</tr>
<tr>
<td>Feb. 22</td>
<td>1.8</td>
<td>Simplifying algebraic expressions (part 2)</td>
<td>P.69: 26-38, 43,47,49,65,67,79,81,89,91,101,111</td>
</tr>
<tr>
<td>Feb. 29</td>
<td>2.1</td>
<td>Linear equations (properties of equality)</td>
<td>P.89: 1-3, 6-22, 27, 43, 45, 57, 61</td>
</tr>
<tr>
<td>Feb. 29</td>
<td>2.2</td>
<td>Linear equations (applying both properties)</td>
<td>P.96: 1-20</td>
</tr>
<tr>
<td>Mar. 7</td>
<td>2.3</td>
<td>Linear equations (fractions, decimals)</td>
<td>P.105: 1-4, 7-12, 27-33 odd,75,77,79,105,107,111</td>
</tr>
<tr>
<td>Mar. 7</td>
<td>2.4</td>
<td>Evaluating and solving formulas for a var.</td>
<td>P.115: 1-22, 39, 53, 59</td>
</tr>
<tr>
<td>Mar. 7</td>
<td>2.5</td>
<td>Introduction to word problems</td>
<td>P.129: 1-26</td>
</tr>
<tr>
<td>Mar. 21</td>
<td>2.6</td>
<td>Word problems with percent</td>
<td>P.136: 1-9, 21, 25, 37, 43, 47, 57</td>
</tr>
<tr>
<td>Mar. 21</td>
<td>2.7</td>
<td>Word problems with geometry</td>
<td>P.145: 4-9, 17, 19, 21, 23, 31</td>
</tr>
<tr>
<td>Mar. 21</td>
<td></td>
<td>Review or catch up day</td>
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<tr>
<td>Mar. 28</td>
<td>2.8</td>
<td>Linear inequalities</td>
<td>P.157: 1-27</td>
</tr>
<tr>
<td>Apr. 4</td>
<td>3.1</td>
<td>Intro. to graphing equations in two variables</td>
<td>P.178: 1-18, 25, 43, 65</td>
</tr>
<tr>
<td>Apr. 11</td>
<td>3.2</td>
<td>Graphing equations in two variables</td>
<td>P.192: 1-24, 87, 89, 111, 113</td>
</tr>
<tr>
<td>Apr. 18</td>
<td>3.3</td>
<td>Slope</td>
<td>P.202: 1-12, 27, 37, 41, 43, 47, 55, 65, 67</td>
</tr>
<tr>
<td>Apr. 25</td>
<td>5.1</td>
<td>Adding and subtracting polynomials</td>
<td>P.315: 1-28, 121</td>
</tr>
<tr>
<td>Apr. 25</td>
<td>5.2</td>
<td>Mult. monomials (product and power rules)</td>
<td>P.322: 1-20</td>
</tr>
<tr>
<td>Apr. 25</td>
<td>5.3</td>
<td>Multiplying polynomials</td>
<td>P.331: 1-3, 7-25, 28-32</td>
</tr>
<tr>
<td>Apr. 25</td>
<td>5.4</td>
<td>Dividing monomials (quotient rules)</td>
<td>P.343: 1-14, 16-25, 27-29, 51-61 odd</td>
</tr>
<tr>
<td>Apr. 25</td>
<td></td>
<td>Review or catch up</td>
<td></td>
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<tr>
<td>Apr. 25</td>
<td></td>
<td>To practice for Exam 3, work Optional Extra Practice HW for sections 2.8, 3.1-3.3, and 5.1-5.4</td>
<td></td>
</tr>
<tr>
<td>Apr. 25</td>
<td>6.1</td>
<td>GCF and factoring by grouping</td>
<td>P.375: 1-26</td>
</tr>
<tr>
<td>Apr. 25</td>
<td>6.2</td>
<td>Factoring $x^2 + bx + c$</td>
<td>P.383: 1-11, 14-16, 23-35 odd</td>
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<tr>
<td>Date</td>
<td>Section</td>
<td>Pages</td>
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<tr>
<td>May 2</td>
<td>6.4 Factoring differences of squares</td>
<td>P.401: 11-14, 16-21, 39-43 odd, 73, 85</td>
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<tr>
<td></td>
<td>6.5 General strategies for factoring</td>
<td>P.406: 1-3, 15-17, 19, 21, 33-41 odd, 47</td>
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<td></td>
<td>Review or catch up</td>
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**Final Exams (Week of May 9th)**

Suggested final exam review: Rework old exams and work Optional Extra Practice HW for sections 6.1-6.5
Check with your instructor for exact Chapter 6 coverage.

Optional sections that may be covered as time permits:

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4 Slope-intercept equation</td>
<td>P.212: 1-14, 19, 33, 43, 53</td>
</tr>
<tr>
<td>6.3 Factoring $ax^2 + bx + c$, $a \neq 1$</td>
<td>P.393: 1-6, 9-22</td>
</tr>
<tr>
<td>6.6 Solving quadratic equations by factoring</td>
<td>P.414: 1-8, 11, 14, 18, 21-23</td>
</tr>
<tr>
<td>6.7 Applications of quadratic equations</td>
<td>P.421: 1-7, 11, 25</td>
</tr>
</tbody>
</table>

**Final Exam Time:** See schedule at [http://www.sfasu.edu/registrar/194.asp](http://www.sfasu.edu/registrar/194.asp)