

MATH 0315 (3:3:1)

Beginning Algebra

MATHEMATICS DEPARTMENT

Division of Arts & Sciences

*South Plains College*  
*Reese Center*

Fall 2017

Traci Sanders

**Fall 2017**  
**Beginning Algebra: Math 0315.211**

**Instructor:** Traci Sanders  
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**Office Phone:** 716-4616  
**Office:** RC 223-C  
**Classroom:** RC 220  
**Time:** TR 11:00 – 12:45

**Office Hours:**

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	10:15 – 11:00 12:45 – 2:30		10:15 – 11:00 12:45 – 2:30	9:00 – 12:00
Appointments are available for other times.				

**Course Description:** This course is designed for those students who need Math 0320. It includes properties of signed numbers, algebraic expressions, linear equations in one unknown and systems of equations. Time in a math lab is required. This course will not satisfy graduation requirements.

**Prerequisite:** a grade in the range of 339 or lower on the TSIA or a grade of C or better in Math 0310

**Text:** Elementary & Intermediate Algebra, Fourth Edition, by Sullivan, Struve, and Mazzearella

**Supplies:** notebook paper (to be turned in without spiral edges), scientific or graphing calculator (calculators on cell phones, TI-89, TI-92, TI-Nspire calculators, or other electronic devices will not be allowed during testing), pencils, graph paper, straightedge

**Grading Policy:** Grades will be averaged according to the following percentages:

Lab Average	20%
Test Average	60%
Final Exam	20%

**Grading Scale:**

A: 90 and above	D: 60 – 69
B: 80 – 89	F: 59 or below
C: 70 – 79	

**Tests:** There will be 4 tests and a comprehensive final exam. There will be **NO MAKEUP TESTS!** Dates are listed for all tests, so **PLAN AHEAD!**

**Homework:** Homework will be assigned for all of the sections covered in the course. It will not be collected or graded. However, the questions on the tests and labs will reflect homework problems and time will be given during each class to answer questions on the homework.

**Lab:** Excluding test days, approximately the last 30 minutes of class will be our lab time. The lowest three lab grades will be dropped. **THERE ARE NO MAKEUP LABS!** Here are the two different types of labs we will have:

1. Work on homework. As long as you participate, you will receive a 100 for these labs. If you are absent, you will receive a zero.
2. Work a few problems to be turned in for a grade. If you are absent, you will receive a zero.

**Attendance:** Attendance and effort are the most important activities for success in this course. Whenever you have 4 consecutive or 6 total absences, the instructor may withdraw you from the course with a grade of X or F. I do not distinguish between excused and unexcused absences. If you stop attending class, you should go through the procedure for dropping a course to obtain a grade of W. For more detail, see p. 19 of the South Plains College General Catalog. Perfect attendance will result in 4 points added to your final grade. If you must miss, find out what the homework assignment was and stay caught up!

**Expectations:**

1. Read the syllabus!
2. Attend class, arrive on time, do your homework, and be prepared to participate.
3. Keep all cell phones turned off and put away for the duration of the class.
4. Maintain a classroom environment that is conducive to learning. For more detail, see page 22 of the South Plains College General Catalog.
5. Be the best you can be!

**Important Dates:**

September 4	Labor Day Holiday
October 13	Fall Break
November 9	Registration Opens
November 16	Last Day to Drop
November 22 – 24	Thanksgiving Holiday
December 12	Final Exam: 10:15 – 12:15

**Course Outcomes:**

Successful completion of this course should reflect mastery of the following objectives:

(Chapter and section numbers are indicated in parentheses.)

1. Add, subtract, multiply and divide real numbers. (1.4, 1.5)
2. Use the order of operations to simplify an expression. (1.7)
3. Simplify algebraic expressions. (1.8)
4. Solve linear equations. (2.1, 2.2, 2.3)
5. Translate and solve word problems. (2.5, 2.6, 2.7)
6. Solve linear inequalities. (2.8)
7. Graph equations in two variables by the intercept method and the slope intercept method.  
(3.1, 3.2, 3.3, 3.4)
8. Solve systems of equations by graphing, substitution, and elimination.  
(4.1, 4.2, 4.3)
9. Simplify expressions using exponent rules. (5.2, 5.4)
10. Add, subtract, multiply and divide polynomials. (5.1, 5.3, 5.5)
11. Factor polynomials, (6.1, 6.2, 6.3, 6.4, 6.5)
12. Solve quadratic equations by factoring. (6.6)

**Academic Integrity:** The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a serious offense and renders the offender liable to serious consequences, possibly suspension. For more detail, see p. 21 of the South Plains College General Catalog.

**Diversity Statement:** In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

**Disability Statement:** Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office at, Reese Center Building 8, 806-716-4675.

**Campus Concealed Carry Statement:** Campus Concealed Carry - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at: [http://www.southplainscollege.edu/human\\_resources/policy\\_procedure/hhc.php](http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php) Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

	<b>Math 0315 Course Outline – Fall 2017</b> This schedule is tentative and subject to change.
<b>Week</b>	<b>Topics and Sections Covered</b>
<b>1</b> 8/29,31	1.4 Adding, Subtracting, Multiplying, and Dividing Integers 1.5 Adding, Subtracting, Multiplying, and Dividing Rational Numbers
<b>2</b> 9/5,7	1.5 Adding, Subtracting, Multiplying, and Dividing Rational Numbers 1.7 Exponents and the Order of Operations 1.8 Simplifying Algebraic Expressions
<b>3</b> 9/12,14	2.1 Linear Equations: The Addition and Multiplication Properties of Equality 2.2 Linear Equations: Using the Properties Together
<b>4</b> 9/19,21	2.3 Solving Linear Equations Involving Fractions and Decimals <b>Test 1 – No Calculators – Thursday, September 21</b> 2.5 Problem Solving: Direct Translation
<b>5</b> 9/26,28	2.6 Problem Solving: Problems Involving Percent 2.7 Problem Solving: Geometry and Uniform Motion
<b>6</b> 10/3,5	2.8 Solving Linear Inequalities in One Variable 3.1 The Rectangular Coordinate System and Equations in Two Variables 3.2 Graphing Equations in Two Variables
<b>7</b> 10/10,12	3.3 Slope 3.4 Slope-Intercept Form of a Line <b>Test 2 – Thursday, October 12</b>
<b>8</b> 10/17,19	4.1 Solving Systems of Linear Equations by Graphing 4.2 Solving Systems of Linear Equations Using Substitution
<b>9</b> 10/24,26	4.3 Solving Systems of Linear Equations Using Elimination 5.1 Adding and Subtracting Polynomials
<b>10</b> 10/31,11/2	5.2 Multiplying Monomials 5.3 Multiplying Polynomials
<b>11</b> 11/7,9	5.3 Multiplying Polynomials 5.4 Dividing Monomials <b>Test 3 – Thursday, November 9</b> <b>Registration Opens – Thursday, November 9</b>
<b>12</b> 11/14,16	5.5 Dividing Polynomials 6.1 Greatest Common Factor and Factoring by Grouping 6.2 Factoring Trinomials of the Form $x^2 + bx + c$ <b>Last Day to Drop – Thursday, November 16</b>
<b>13</b> 11/21,23	6.3 Factoring Trinomials of the Form $ax^2 + bx + c$ , $a \neq 1$ 6.4 Factoring Special Products <b>Thanksgiving Holiday – November 22 – 24</b>
<b>14</b> 11/28,30	6.5 Summary of Factoring Techniques 6.6 Solving Polynomial Equations by Factoring <b>Test 4 – Thursday, November 30</b>
<b>15</b> 12/5,7	6.6 Solving Polynomial Equations by Factoring Review for Final Exam
<b>16</b> 12/12	<b>FINAL EXAM – Tuesday, December 12, 10:15 – 12:15</b>