



## Course Syllabus – Beginning Algebra

### Math 0315.502 – Spring 2017

**Department:** Mathematics and Engineering

**Instructor:** Denise Johansen

**Discipline:** Mathematics

**Office:** PC 101G; (806)716-4632

**Course Number:** Math 0315

**Cell/Text:** (513)227-0095

**Course Title:** Beginning Algebra

**Email:** djohansen@southplainscollege.edu

**Credit:** 3 **Lecture:** 3 **Lab:** 1

**Time/Place:** TR 2:30pm-4:15pm/PC 116

**Office Hours:** MW 10am-11am and 2:45pm-4pm, TR 4:15pm-5:30pm and 7:15pm-7:45pm, or by appointment

**This course satisfies a core curriculum requirement:** No

**Prerequisites:** Minimum score of 336 on TSI-exam or successful completion (C or better) of Math0310

**Available Formats:** conventional/internet

**Campuses:** Levelland Campus, Reese Campus, Plainview Center, Byron Martin ATC

**Textbook:** *Elementary and Intermediate Algebra*, Sullivan/Struve/Mazzarella, 2014, 3<sup>rd</sup> Edition, Prentice Hall/Pearson Education

**Supplies:** MyMathLab access (Course ID: **johansen72917**); a non-graphing calculator will be allowed for some topics in the class.

**Course Specific Instructions:** There are video tapes of the lectures available that can be viewed on Blackboard. Username and password are: MVIDEOS. These tapes do not replace class meetings, but can be used as supplemental material for students' use.

## Math 0315.502 – Beginning Algebra

**Course Description:** This course is designed for those students who need MATH 0320 and have not had one year of high school algebra. It includes properties of signed numbers, algebraic expressions, linear equations in one unknown and geometry. Time in a math lab is required. This course will not satisfy graduation requirements. The course is required if testing indicates a need.

**Course Purpose/Rationale/Goal:** The purpose of the course is to provide a background in beginning algebra concepts necessary for MATH 0320. **You must earn a grade of 'C' or better to continue to the next course.**

**Course Requirements:** To maximize the potential to complete this course, a student should attend all class and laboratory meetings, take notes and participate in class, complete all homework assignments and examinations including final examinations.

### Course Evaluation:

- There will be in-class assignments collected daily. By their very nature, in-class assignments can NOT be made up. The in-class average is worth 10% of your grade, and the lowest 2 in-class grades will be dropped.
- Daily online homework assignments will be due weekly on Tuesdays. Late homework will be accepted with 10% per day late submission penalty! The homework average is worth 10% of your grade, and the lowest 3 homework grades will be dropped.
- Daily pre-class assignments will be posted, worth 5% of your grade. The lowest 2 PreClass grades will be dropped.
- There will be 6 online Quizzes to be **completed on your own and without references**. The quiz average is worth 10% of your grade, and the lowest quiz grade will be dropped.
- There will be 3 in-class hour exams. These will each be worth 15% of your grade.
- There will be 1 in-class cumulative final exam on **Tuesday, May 9<sup>th</sup> from 3:15pm-5:15pm**, worth 20% of your grade.

### Letter Grades:

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
59% & below	F

\*\*Students who earn 69% or below and have 4 or less absences will qualify for a grade of 'PR'. Any student with a PR, D, or F must repeat the class. However, a PR doesn't affect the student's GPA or financial aid status.

### Student Learning Outcomes/Competencies:

Upon completion of this course and receiving a passing grade, the student will be able to:

1. Add, subtract, multiply and divide real numbers.
2. Use the order of operations to simplify an expression.
3. Simplify algebraic expressions.

## Math 0315.502 – Beginning Algebra

4. Solve linear equations.
5. Translate and solve word problems.
6. Solve linear inequalities.
7. Graph equations in two variables by the intercept method and the slope intercept method.
8. Solve systems of equations by graphing, substitution, and elimination
9. Evaluate expressions using exponent rules.
10. Add, subtract, multiply and divide polynomials.
11. Factor polynomials.
12. Solve quadratic equations by factoring.

**Attendance Policy:** Students are expected to attend all classes in order to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus. [*Absences for this course are considered excessive if you have 4 in a row or a total of 8. If you reach 4 consecutive absences or a total of 8 absences, you will be administratively withdrawn from the class with a grade of 'X' or 'F'.*]

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

**Last day to drop is Thursday, April 27<sup>th</sup>.**

### **SPC School Holidays:**

- Monday, 1/16, Martin Luther King Holiday
- Monday-Friday, 3/13-3/17, Spring Break
- Monday, 4/17, Easter Holiday

## Math 0315.502 – Beginning Algebra

**Academic Integrity:** It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of 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 most serious offense and renders the offender liable to serious consequences, possibly suspension.

**Cheating:** Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in an office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of course work. This applies to quizzes of whatever length, as well as to final examinations, to daily reports and to term papers.

**Dress Code:** Reasonable standards of decency apply to the college community. The student should dress in a manner which does not distract from the academic atmosphere. Revealing attire or clothing carrying obscene or offensive slogans is not permitted. In all academic buildings, classrooms, offices, the Student Center, and dining facilities, students are required to wear shirts and shoes.

**Language:** Please be respectful of others and use language that is appropriate to the workplace.

**Campus Carry:** The Texas Campus Concealed Carry law went into effect on university campuses on August 1<sup>st</sup>, 2016. The law does NOT go into effect for community colleges until August 1<sup>st</sup>, 2017. Therefore, NO firearms of any kind are allowed on South Plains College property, regardless of your Concealed Carry status.

**Equal Opportunity:** South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability, or age.

**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 Special 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 to the Special Services Coordinator. For more information, call or visit the Special Services Office in the Student Services Building, 716-2529 or 716-2530.

## Math 0315.502 – Beginning Algebra

### COURSE OUTLINE / CALENDAR\*

Problems are assigned online for each section of the textbook that we cover. To access online assignments, you must have an access code (you can buy a code for MyMathLab bundled with your textbook or you can buy just the code at [www.mymathlab.com](http://www.mymathlab.com)) and register for our course (Course ID: **johansen72917**) at [www.mymathlab.com](http://www.mymathlab.com). Assignments have due dates, and you will lose 10% per day for work completed after the due date passes. To master the material and prepare for the exams, you **MUST** work extra problems!

\* Assignments and deadlines are subject to change at instructor's discretion, and all changes will be announced in class and posted in MyMathLab.

Date	Content	Required Readings
Week 1 1/17 1/19	<b>Operations on Real Numbers and Algebraic Expressions (Part 1)</b> <ul style="list-style-type: none"> <li>• Syllabus Overview and Initial Assessment</li> <li>• Adding, Subtracting, Multiplying, and Dividing Rational Numbers</li> </ul>	<u><b>Readings</b></u> Chapter 1: 1.5
Week 2 1/24 1/26	<b>Operations on Real Numbers and Algebraic Expressions (Part 2) &amp; Equations and Inequalities in One Variable (Part 1)</b> <ul style="list-style-type: none"> <li>• Exponents and the Order of Operations</li> <li>• Simplifying Algebraic Expressions</li> <li>• Linear Equations: The Addition and Multiplication Properties of Equality</li> <li>• Linear Equations: Using the Properties Together</li> </ul>	<u><b>Readings</b></u> Chapter 1: 1.7-1.8 Chapter 2: 2.1-2.2
Week 3 1/31 2/2	<b>Equations and Inequalities in One Variable (Part 2)</b> <ul style="list-style-type: none"> <li>• Solving Linear Equations Involving Fractions and Decimals; Classifying Equations</li> <li>• Problem Solving: Direct Translation</li> <li>• Problem Solving: Problems Involving Percent</li> </ul>	<u><b>Readings</b></u> <b>Quiz 1 Due</b> (Chapter 1) Chapter 2: 2.3, 2.5-2.6
Week 4 2/7 2/9	<b>Equations and Inequalities in One Variable (Part 3)</b> <ul style="list-style-type: none"> <li>• Problem Solving: Geometry and Uniform Motion</li> <li>• Solving Linear Inequalities in One Variable</li> <li>• Review for Exam I</li> </ul>	<u><b>Readings</b></u> Chapter 2: 2.7-2.8

## Math 0315.502 – Beginning Algebra

<p>Week 5</p> <p>2/14 2/16</p>	<p><b>Exam I &amp; Introduction to Graphing and Equations of Lines (Part 1)</b></p> <ul style="list-style-type: none"> <li>• <b>Exam I</b></li> <li>• The Rectangular Coordinate System and Equations in Two Variables</li> </ul>	<p><b>Readings</b> <b>Quiz 2 Due</b> (Chapter 2) Chapter 3: 3.1</p>
<p>Week 6</p> <p>2/21 2/23</p>	<p><b>Introduction to Graphing and Equations of Lines (Part 2)</b></p> <ul style="list-style-type: none"> <li>• Graphing Equations in Two Variables</li> <li>• Slope</li> <li>• Slope-Intercept Form of a Line</li> </ul>	<p><b>Readings</b> Chapter 3: 3.2-3.4</p>
<p>Week 7</p> <p>2/28 3/2</p>	<p><b>Systems of Linear Equations and Inequalities (Part 1)</b></p> <ul style="list-style-type: none"> <li>• Solving Systems of Linear Equations by Graphing</li> <li>• Solving Systems of Linear Equations Using Substitution</li> </ul>	<p><b>Readings</b> <b>Quiz 3 Due</b> (Chapter 3) Chapter 4: 4.1-4.2</p>
<p>Week 8</p> <p>3/7 3/9</p>	<p><b>Systems of Linear Equations and Inequalities (Part 2) &amp; Exponents and Polynomials (Part 1)</b></p> <ul style="list-style-type: none"> <li>• Solving Systems of Linear Equations Using Elimination</li> <li>• Adding and Subtracting Polynomials</li> </ul>	<p><b>Readings</b> Chapter 4: 4.3 Chapter 5: 5.1</p>
<p>3/13-17</p>	<p><b>Spring Break – No Classes!</b></p>	
<p>Week 9</p> <p>3/21 3/23</p>	<p><b>Exam II</b></p> <ul style="list-style-type: none"> <li>• Review for Exam II</li> <li>• <b>Exam II</b></li> </ul>	<p><b>Readings</b> <b>Quiz 4 Due</b> (Chapter 4)</p>
<p>Week 10</p> <p>3/28 3/30</p>	<p><b>Exponents and Polynomials (Part 2)</b></p> <ul style="list-style-type: none"> <li>• Multiplying Monomials: The Product and Power Rules</li> <li>• Multiplying Polynomials</li> </ul>	<p><b>Readings</b> Chapter 5: 5.2-5.3</p>
<p>Week 11</p> <p>4/4 4/6</p>	<p><b>Exponents and Polynomials (Part 3)</b></p> <ul style="list-style-type: none"> <li>• Dividing Monomials: The Quotient Rule and Integer Exponents</li> <li>• Dividing Polynomials</li> </ul>	<p><b>Readings</b> Chapter 5: 5.4-5.5</p>

## Math 0315.502 – Beginning Algebra

Week 12 4/11 4/13	<b>Factoring Polynomials (Part 1)</b> <ul style="list-style-type: none"> <li>• Greatest Common Factor and Factoring by Grouping</li> <li>• Factoring Trinomials of the Form <math>x^2 + bx + c</math></li> <li>• Factoring Trinomials of the Form <math>ax^2 + bx + c</math>, <math>a \neq 1</math></li> </ul>	<u><b>Readings</b></u> <b>Quiz 5 Due</b> (Chapter 5) Chapter 6: 6.1-6.3
Week 13 4/18 4/20	<b>Factoring Polynomials (Part 2)</b> <ul style="list-style-type: none"> <li>• Factoring Special Products</li> <li>• Summary of Factoring Techniques</li> </ul>	<u><b>Readings</b></u> Chapter 6: 6.4-6.5
Week 14 4/25 4/27	<b>Factoring Polynomials (Part 3) &amp; Exam III</b> <ul style="list-style-type: none"> <li>• Review for Exam III</li> <li>• <b>Exam III</b></li> </ul>	<u><b>Readings</b></u>
Week 15 5/2 5/4	<b>Factoring Polynomials (Part 4)</b> <ul style="list-style-type: none"> <li>• Solving Polynomial Equations by Factoring</li> <li>• Review for Final Exam</li> </ul>	<u><b>Readings</b></u> Chapter 6: 6.6
Week 16 5/9	<b>Final Exam</b> <ul style="list-style-type: none"> <li>• <b>Final Exam, 3:15pm-5:15pm</b></li> </ul>	<u><b>Readings</b></u> <b>Quiz 6 Due</b> (Chapter 6)

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