# MATH 0315 Beginning Algebra Syllabus

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| **Instructor:** | Jason Groves |
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| **Office Hours:** | by appointment |

**Prerequisites:**  Appropriate score on TSI exam

**Materials:**  Elementary and Intermediate Algebra 4th ed. by Sullivan, Struve, Mazzarella. Suitable writing instruments and paper for taking notes and completing assignments. Calculators are *not* permitted.

**Expected Learning Outcomes:**  At the end of this course, students should be able to competently perform the following:

1. Perform arithmetic over the rational number system

2. Solve linear and quadratic equations in one variable, and solve problems using linear and quadratic models.

3. Graph, analyze, and interpret linear equations in two variables and solve systems of linear equations in two variables.

4. Properly use and understand rules of exponents applied to rational numbers and variables.

  IT IS THE RESPONSIBILITY OF THE STUDENT TO BE FAMILIAR WITH SOUTH PLAINS COLLEGE POLICIES. BELOW ARE ITEMS SPECIFIC TO THIS COURSE

**Assessment:**  Grading will be done according to the standard 10 percent scale (i.e. 100% - 90% is an A, etc.) with assignments weighted according to the following scale

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| Quizzes | 4% |
| Tests | 19% each |
| Final Exam | 20% |

**Class Attendance:**  Students must attend all classes. In the event of an absence for any reason, the student is responsible for covering the missed material (though emails and visits outside of class to ask questions are always appropriate). A student missing 4 individual class days without notification will be dropped from the course. Please note that new state laws only allow for 6 withdrawn courses total. Further, note that this attendance policy is only for *this* course.

**Homework:**  Problems from the textbook are assigned daily to coincide with the topics covered during class. Homework will not be collected, but is to help you reinforce course lessons and practice where applicable.

**Quizzes:** Quizzes will be given daily (except on exam days or the day after). Problems on each quiz will be virtually identitcal to assigned homework problems (numbers may change slightly, but nothing will change the nature of the problem). Quizzes cannot be made up, retaken, or dropped, except at the discretion of the instructor.

**Exams:** There will be at least four midterm exams given during this course. Questions will be similar to assigned homework problems (see 'Quizzes" above). During exams all electronic devices should be turned *off* and put away. There is no tolerance for violations. *Makeup exams are not given.*

**Final Exam:** The final exam is comprehensive, and a required part of the course. Failure to take the final exam results in an automatic F. As the final exam is comprehensive, your final exam grade also serves as the lowest possible grade for the course. The Final Exam will be held at 4 pm, August 16.

**Extra Credit:** Extra credit is not offered in this course.

**Civility in the classroom:** Students are expected to assist in maintaining a classroom environment that is conducive to learning. Given that students will be asked to present material as a part of the course, and contribute openly in class, troublesome behavior will not be tolerated. At a minimum, this includes use of cell phones, making offensive remarks, reading newspapers, arriving late, leaving early or engaging in any other form of distraction. Infractions will be dealt with proportionally to the offense, and may include dismissal from that class period (which will count as an absence on your attendance record). Tobacco products are not permitted in the classroom.

**Honesty:** "Scholastic dishonesty" includes but is not limited to cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student. Incidents of academic dishonesty will be promptly reported and dealt with.

**Campus Resources:** Students have access to tutoring in M116 on the Levelland campus, or Building 2 (rooms 206 and 208) on the Reese campus.

**ADA Compliance:** SPC Disabilities Statement
    **Reese Center and the Byron Martin Advanced Technology Center (ATC)** 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 to federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office in Rooms 809 and 811, Reese Center Building 8, 806-716-4675.

| Day | Date | Topics | Section |
|---|---|---|---|
| Thursday | 07/13/17 | Arithmetic Review | 1.2, 1.4, 1.5, 1.7 |
| Monday | 07/17/17 | Introduction to variables, simplifying algebraic expressions | 1.8, 5.1 |
| Tuesday | 07/18/17 | Solving Linear Equations and inequalities in 1 variable | 2.2, 2.3, 2.8 |
| Wednesday | 07/19/17 | Word Problems | 2.4 – 2.7 |
| Thursday | 07/20/17 | Exam 1 | Ch. 1, 2 |
| Monday | 07/24/17 | Linear Equations in 2 variables, Graphing Lines | 3.1, 3.2 |
| Tuesday | 07/25/17 | Slope of a line, Slope-intercept form, Point-Slope form | 3.3 – 3.5 |
| Wednesday | 07/26/17 | Parallel and Perpendicular Lines, Graphing Linear Inequalities | 3.6, 3.7 |
| Thursday | 07/27/17 | Exam 2 | Ch. 3 |
| Monday | 07/31/17 | Solving Systems of Linear Equations | 4.1 – 4.3 |
| Tuesday | 08/01/17 | Solving Word Problems with Linear Systems | 4.4, 4.5 |
| Wednesday | 08/02/17 | Systems of Equations Review, Systems of Inequalities | 4.6 |
| Thursday | 08/03/17 | Exam 3 | Ch. 4 |
| Monday | 08/07/17 | Multiplication Rules of Exponents, Multiplication of Polynomials | 5.2, 5.3 |
| Tuesday | 08/08/17 | Quotient Rules of Exponents, Dividing Polynomials | 5.4, 5.5 |
| Wednesday | 08/09/17 | Factoring Polynomials | 6.1 – 6.3 |
| Thursday | 08/10/17 | Special Products/Factors, Factoring Summary | 6.4, 6.5 |
| Monday | 08/14/17 | Solving Quadratic Equations with Factoring | 6.6, 6.7 |
| Tuesday | 08/15/17 | Exam 4 | Ch. 5, 6 |
| Wednesday | 08/16/17 | Final Review | |
| Thursday | 08/17/17 | Final Exam | |

Beginning Algebra (MATH0315) Suggested Exercises[1]

| Section | Problems |
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| 1.2 | AMAP[2] |
| 1.4 | AMAP |
| 1.5 | AMAP |
| 1.7 | AMAP |
| 1.8 | AMAP |
| 2.2 | 63 - 85 odd |
| 2.3 | 75 - 95 odd, 105 - 115 odd |
| 2.4 | 57 - 75 |
| 2.5 | AMAP |
| 2.6 | 37 - 55 odd |
| 2.7 | 31 - 47 odd |
| 2.8 | 37 - 50, 99 - 113 |
| 3.1 | 27 - 59 odd, 65, 67 |
| 3.2 | 33 - 93 odd |
| 3.3 | 13 - 18, 23 - 33, 45 - 57 |
| 3.4 | 69 - 95 odd |
| 3.5 | 53 - 73 odd |
| 3.6 | 67 - 82 |
| 3.7 | 15 - 5 odd, 69, 71 |
| 4.1 | 17 - 38 |
| 4.2 | 35 - 52 |
| 4.3 | 47 - 67 |
| 4.4 | 17 - 35 |
| 4.5 | 21 - 41 |
| 4.6 | 9 - 37 odd |
| 5.1 | AMAP |
| 5.2 | 69 - 93 |
| 5.3 | 35 - 48, 63 - 95 odd |
| 5.4 | 97 - 119 |
| 5.5 | 13 - 43 odd |
| 6.1 | 81 - 101 |
| 6.2 | 59 - 89 |
| 6.3 | 71 - 95 |
| 6.4 | 29 - 57 odd |
| 6.5 | AMAP |
| 6.6 | 65 - 99 |
| 6.7 | 26 - 36 |

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[1]It is strongly recommended that all "Quick Check" problems are done in each section
[2]AMAP: "As Many As Possible/Practical." For these sections, the next day's quiz questions will be taken from the "Mixed Practice" section of those problems.