South Plains College

Department of Mathematics & Engineering

Math0320 – Intermediate Algebra

Course Syllabus – Spring 2017

Math0320.008.162S

Scheduled Class Time: TR – 2:30pm-4:15pm, Math Building, M105

Instructor: Jerod Clopton

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Phone: 806-716-2738

Office Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
10:00-10:45	9:45-10:30	10:00-10:45	9:45-10:30	9:00-12:00
4:30-5:00 (@ ATC)	3:45-4:15	4:30-5:00 (@ ATC)	3:45-4:15	
Or by appointment				

Textbook: Sullivan, M., Struve, K. R., & Mazzarella, J. *Elementary and Intermediate Algebra,* Third Edition. ISBN-13 978-0-321-88011-6.

The purchase or use of a textbook is <u>not required</u> for this class. You may check out a copy of the textbook from the library to use as a reference if you desire.

Supplies: Notebook, lined loose-leaf paper, 3-ring binder, pencils, straight edge, graph paper. Only a basic non-graphing calculator (such as a TI-30) will be allowed in class. Calculators on cell phones, graphing calculators, and other electronic devices will NOT be allowed during tests or in-class assignments.

Course Description: Prerequisite: MATH 0315 or appropriate test score. This course is designed for students who need MATH 1314 or MATH 1324. Topics include factoring, fractions, linear equations in one unknown, graphing, systems of linear equations and inequalities, exponents, radicals, and quadratic equations. (Copied from course catalogue.)

Student Learning Outcomes/Competencies: Successful completion of this course should reflect mastery of the following objectives. Chapter and section numbers are indicated in parentheses.

1. Define, represent, and perform operations on real and complex numbers. (9.9)

2. Recognize, understand, and analyze features of a linear equation and a function. (8.3, 8.4 including topics from 3.3, 3.4 and 3.5)
3. Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, rational, and radical expressions.
4. Identify and solve absolute value, polynomial, rational, and radical equations. (6.6, 7.7, 8.7, 9.8, 10.1, 10.2)
5. Identify and solve absolute value and linear inequalities. (8.6, 8.7)
6. Model, interpret, justify mathematical ideas and concepts using multiple representations. (6.7, 7.8, 8.2, 8.5, 9.8)
7. Connect and use multiple strands of mathematical situations and problems, as well as in the study of other disciplines. (The word problems in Chapters 6, 7, 8, 9, and 10.)

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

Attendance: Your attendance and active participation is vital to your success in this class. Attendance will be taken at the beginning of each class meeting. Failure to be in attendance will result in you being marked as absent for that class meeting. Should you arrive after attendance has been taken or leave class early, you will be marked as being tardy for that class meeting. For every 3 accounts that you are marked as being tardy, you will receive 1 mark of being absent; i.e. 3 tardies = 1 absent. If you exceed 5 absences during the course of the semester you will be dropped from this course with a grade of X or F.

Be on time for class and turn of any cell phones or other electronic devices before class starts. The use of cell phones or any other electronic devise (other that calculators when allowed) is strictly prohibited during class.

Homework and Quizzes: Homework will be assigned for each section of material covered and will be collected on the due date at the end of class. Homework is assigned to reinforce the learning and mastery of concepts taught in class. **Late homework will not be accepted and a grade of zero will be assigned.** Quizzes may be given at any time. The average of all homework and quiz grades will account for 20% of your final grade.

Exams: There will be four unit exams, each worth 15% of your final grade, and one comprehensive final exam for this class. The average of your exam grades will account for 60% of your final grade. **There will be no make up exams.** The final exam will account for 20% of your final grade. If your final exam grade is greater than your lowest exam grade, then that grade will be replaced by the grade from your final exam.

Calculation of Final Grade	
Homework Average	20%
Exam Average	60%
Final Exam	20%

Your final average will determine your letter grade for this class; determined by the following scale: A(90-100%), B(80-89%), C(70-79%), D(60-69%), F(0-59%)

Supplementary Course Information & Tutoring:

Blackboard is the online course management system that will be utilized for this course. This course syllabus, homework assignments, as well as any class handouts can be accessed through Blackboard. Login at http://southplainscollege.blackboard.com. The user name and password should be the same as the MySPC and SPC email.

      User name: first initial, last name, and last 4 digits of the Student ID
      Password: Original Campus Connect Pin No. (found on SPC acceptance letter)

Check Blackboard often for the latest tutoring schedule and course supplements (handouts, online practice quizzes, additional notes, sample problems for practice, etc.).

Free Math Videos: Visit SPC's website, www.southplainscollege.edu. At the top right of the home page, click on Blackboard. Blackboard will ask for a user name and password. Use the following for both: mvideos. What will you find here? You will find videos (ordered by topic) from SPC professors and handouts (PDF) that accompany most videos. This is a great resource to use if you missed class, did not fully understand the lesson, or just simply forgot the lesson.

Tutoring: Students can obtain free tutoring in room M116 in the math building at the South Plains College campus in Levelland, room 206 and 208 in Building 2 at the Reese Campus, and in room _ _ _ _ at the ATC.

The Instructor: Students are encouraged to come see me, the instructor, during my office hours for assistance for homework or further understanding of material.

The Internet: The topics, along with the examples and solutions of problems that are covered in this class are freely available to you through the Internet. There are numerous webpages, PDFs, and videos that will relate to everything that is covered in this class. Various web links will be posted in Blackboard throughout the semester for you to reference. I encourage that you search for other references and utilize these to gain a more solid understanding of the martial.

Classroom Civility: Students are expected to be respectful of their fellow classmates and maintain a classroom environment that is conducive to learning. Turn off all cell phones and other electronic devices before entering the room. The instructor reserves the right to ask a student to leave if his/her cell phone is left on and disrupts the class. Refrain from using offensive language, reading newspapers, chewing tobacco products, or otherwise being disruptive in class. Food and/or drinks are NOT allowed in the classroom.

Academic Honesty: Students are expected to uphold the ideas of academic honesty. Academic dishonesty includes, but is not limited to, cheating on tests, collaborating with another student during a test, copying another student's work, using materials not authorized, and plagiarism. **Use of a graphing calculator, cell phone, or other electronic device during any in-class assignment or exam will result in a grade of zero.** Students who do not follow the academic honesty policy will receive a grade of zero for the assignment, and may be dropped from the course with an F, or face possible suspension from the college.

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 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 to the Disability Services Office. For more information, call or visit the Disability Services Office through the Guidance and Counseling Centers at Reese Center (Building 8) 716-4606, or Levelland (Student Services Building) 716-2577.

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.

Intermediate Algebra Tentative Course Schedule *

Spring 2017: TR classes

Week	Day	Lesson	Assignment
1	Tue, Jan 17	2.2, 2.3 - Linear Equations: Using Properties Together	Assignment 1
	Thu, Jan 19	8.6 - Compound Inequalities; 8.7 - Absolute Value Equations and Inequalities	Assignment 2
2	Tue, Jan 24	6.1 - Greatest Common Factor; 6.2 - Factoring Trinomials; 6.3 - More Factoring Trinomials	Assignment 3
	Thu, Jan 26	6.1, 6.3 - Practice Factoring Trinomials	Assignment 4
3	Tue, Jan 31	6.1 - Factoring by Grouping; 6.4 - Factoring Special Products	Assignment 5
	Thu, Feb 2	6.5 - Summary of Factoring Techniques	Assignment 6
4	Tue, Feb 7	6.6 - Solving Polynomial Equations by Factoring	Assignment 7
	Thu, Feb 9	Review 1	Study
5	**Tue, Feb 14**	**Exam 1 (15%)**	
	Thu, Feb 16	7.1 - Simplifying Rational Expressions; 7.2 - Multiplying and Dividing Rational Expressions	Assignment 8
6	Tue, Feb 21	7.3 - Add/Subtract Rational Exp. with Common Denominator; 7.4 - Finding the Least Common Denominator	Assignment 9
	Thu, Feb 23	7.5 - Add/Subtract without Common Denominator	Assignment 10
7	Tue, Feb 28	7.7 - Solving Rational Equations	Assignment 11
	Thu, Mar 2	Review 2	Study
8	**Tue, Mar 7**	**Exam 2 (15%)**	
	Thu, Mar 9	8.2 - Relations; 8.3 - Introduction to Functions; 8.4 - Functions and their Graphs	Assignment 12
	Tue, Mar 14	**Spring Break**	
	Thu, Mar 16	**Spring Break**	
9	Tue, Mar 21	3.3 - Slope; 3.4 - Slope-Intercept Form of a Line	Assignment 13
	Thu, Mar 23	3.5 - Point-Slope Form of a Line; 8.4 - Functions and their Graphs	Assignment 14
10	Tue, Mar 28	Review 3	Study
	Thu, Mar 30	**Exam 3 (15%)**	
11	Tue, Apr 4	9.1 - Square Roots; 9.2 - nth Roots and Rational Exponents	Assignment 15
	Thu, Apr 6	9.4 - Simplifying Radical Exp. Using Properties of Radicals; 9.5 - Add/Subtract and Multiply Radical Expressions	Assignment 16
12	Tue, Apr 11	9.6 - Rationalizing Radical Expressions	Assignment 17
	Thu, Apr 13	9.9 - The Complex Number System	
13	Tue, Apr 18	9.8 Solving Radical Equations	Assignment 18
	Thu, Apr 20	Review 4	Study
14	**Tue, Apr 25**	**Exam 4 (16%)**	
	Thu, Apr 27	10.1 Solving Quadratic Equations by Square Root Property and Completing the Square	Assignment 19
15	Tue, May 2	10.2 Solving Quadratic Equations by Quadratic Formula	Assignment 20
	Thu, May 4	Final Review	Study
16	**Tue, May 9**	**Final Exam (20%) - 1:00-3:00**	

* The tentative calendar is subject to change. Any changes to the tentative calendar will be announced in class.