South Plains College
Math 0320 – Intermediate Algebra (3:3:1)
Course Syllabus
Spring 2017

Instructor: Diane Eagle
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Office Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
10:30 – 11:00	10:30 – 11:00	10:30 – 11:00	10:30 – 11:00	9:00 – 12:00
1:45 – 2:30	2:45 – 3:30	1:45 – 2:30	2:45 – 3:30	

Prerequisites: Successful completion of MATH 0315 (a C or higher) or appropriate test score.

Textbook: <u>Elementary and Intermediate Algebra,</u> Sullivan/Struve/Mazzarella, 2014, Third Edition, Pearson Education, Inc. This textbook is available on reserve in the library.

Supplies: Pencils, paper, straightedge and graph paper. A basic **non-graphing** calculator (such as a TI-30) is optional. Calculators on cell phones, graphing calculators, and other electronic devices will NOT be allowed during tests or in-class assignments. Arrive prepared to take notes every day.

Course Description: This course is designed for students who need MATH 1314 or 1324. Topics include factoring, fractions, linear equations in one unknown, graphing, systems of linear equations and inequalities, exponents, radicals, and quadratic equations. Time in a math lab is required. This course will not satisfy graduation requirements. This course is required if testing indicates a need.

Course Purpose/Rational/Goal: The purpose of this course is to provide a background in algebra concepts necessary for MATH 1314 or 1324.

Student Learning Outcomes/Competencies*:
Upon successful completion of this course, students will:
1. Define, represent, and perform operations on real and complex numbers. (9.9)
2. Recognize, understand, and analyze features of a linear equation and functions. (8.1, 8.2, 8.3, 8.4, with additional topics from chapter 3.)
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. (6.1, 6.2, 6.3, 6.4, 6.5, 7.1, 7.2, 7.3, 7.4, 7.5, 9.1, 9.2, 9.4, 9.5, 9.6)
4. Identify and solve absolute value, polynomial, rational, and radical equations. (6.6, 7.7, 8.7, 9.8, 10.2, 10.2)
5. Identify and solve absolute value and linear inequalities. (8.6, 8.7)
6. Model, interpret, and 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 mathematics in situations and problems, as well as in the study of other disciplines. The word problems in Chapters 6, 7, 8, 9, and 10 also cover this outcome.

*Developed by the Coordinating Board and the Faculty of South Plains College's Math and Engineering Department.

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: Your final grade will be determined by the average of 4 major tests (400 points) the comprehensive departmental final exam (100 points) and daily homework assignments (100 points.) A total of 600 points are possible. **A minimum grade of 70 is needed to successfully pass this course.** The number of points earned will follow the grading scale below:

Grading Scale:			
	A	90 to 100	537 to 600 points
	B	80 to 89	477 to 536 points
	C	70 to 79	417 to 476 points
	D	60 to 69	357 to 416 points
	F	Below 60	0 to 356 points

***NOTE: I do NOT issue the grade of "PR" for this class under any circumstances.

Exams: Dates for the 4 major tests and comprehensive departmental final exam are listed on the calendar. **There are NO makeup tests!** If you miss one of the 4 major tests, your final exam will count twice to replace the missing grade. A second missed test will be averaged as a zero. The final exam grade (if higher) will also replace the lowest major exam grade; however, if the final exam is lower than any of the 4 major exam grades, then it will only count once in the course average. A student with an average of 90 or higher on the 4 major tests may be exempt from the final exam.

Homework Assignments: Homework is assigned from each section covered, and time will be available at the beginning of each class to ask questions. Consistently working problems reinforces the skills and concepts presented, and is essential for success in this course. In addition, many test questions come directly from the assigned problems and examples worked in class. Homework assignments will be collected the following class period. All steps/work must be shown and the answer clearly indicated to receive credit. Do not submit "answer sheets." In the event of an absence, you must email your assignment to me on or before the day it is due. **Absolutely NO late homework assignments will be accepted.** Daily grades comprise 100 points, or approximately 17%, of your overall average.

Bonus Points: Do NOT ask for extra credit. Typically, students who request extra credit help are those who are not completing the minimum requirements of the class to begin with. Occasionally, opportunities for extra points can be found on Blackboard, or a bonus problem may be assigned to complete outside of class. Additional homework assignments may also be collected to supplement points earned.

Tutoring: Students can obtain free tutoring in room M116 in the math building on the South Plains Campus in Levelland or in Building 2 at the Reese Center. Tutoring schedules will be posted on campus. Please remember to sign in when you seek the help of a tutor in each of these places.

Course Specific Instructions: Videotapes of many topics are available in room M116 in the math building at the Levelland campus. These tapes can be viewed in the lab, or checked out and taken home for viewing. A link is provided on Blackboard for online viewing. Additional free tutorial videos are also available at the following sites: http://patrickjmt.com/, http://www.mathtv.com/, and http://www.khanacademy.org/.

Attendance Policy: Attendance will be taken every class period. Students who arrive late, leave early, sleep during class, or fail to sign the attendance sheet may be counted absent. Whenever absences become excessive and, in the instructor's opinion, minimum course objectives cannot be met due to absences, the student will be withdrawn from the course. **Any student who misses 3 consecutive classes or exceeds 5 absences throughout the semester will be administratively dropped and receive a grade of X or F.** Students wishing to drop this class must see the registrar by Thursday, April 27, 2017 to officially withdraw and receive a grade of W.

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 classroom. 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, talking loudly or off-topic, working on outside assignments, 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.** Leaving the classroom during an exam will not be permitted. 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 at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

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.

PLEASE NOTE: Texas SB 11 (Campus Concealed Carry) does NOT go into effect for community colleges until August 1, 2017.

MATH 0320.007, 0320.209 – SPRING 2017

Week		Tuesday		Thursday
1	Jan. 17	Syllabus Prerequisites evaluation	Jan. 19	6.1 p. 375 47–98
2	Jan. 24	6.2 p. 383 23–92 6.3 p. 393 23–95	Jan. 26	6.4 p. 401 29–104 6.5 p. 406 17–89
3	Jan. 31	6.6 p. 414 25–100	Feb. 2	6.7 p. 421 7–40
4	Feb. 7	7.1 p. 438 21–75	Feb. 9	**TEST 1**
5	Feb. 14	7.2 p. 445 15–66	Feb. 16	7.3 p. 452 17–74 7.4 p. 460 13–58
6	Feb. 21	7.5 p. 469 23–59, 75–78 all	Feb. 23	7.7 p. 489 15–45, 65–92
7	Feb. 28	7.8 p. 502 15–81	Mar. 2	8.1 p. 528 17–62 8.2 p. 536 25–32 all, 35–53
8	Mar. 7	8.3 p. 546 29–80 8.4 p. 555 15–39, 41–46 all	Mar. 9	**TEST 2**
9	Mar. 21	8.5 p. 568 19–37, 47, 48, 55–61 all	Mar. 23	8.6 p. 582 43–94 8.7 p. 592 43–88
10	Mar. 28	9.1 p. 619 23–74 9.2 p. 626 37–100	Mar. 30	9.4 p. 641 37–109
11	Apr. 4	9.5 p. 647 19–82	Apr. 6	**TEST 3**
12	Apr. 11	9.6 p. 653 13–55	Apr. 13	9.7 p. 659 9–57
13	Apr. 18	9.8 p. 667 13–49, 59–62 all	Apr. 20	9.9 p. 678 25–94
14	Apr. 25	10.1 p. 699 19–70	Apr. 27	**TEST 4**
15	May 2	10.2 p. 712 23–74	May 4	**REVIEW**
16	May 9	**FINAL EXAM section 209 7:15pm – 9:15pm**	May 11	**FINAL EXAM section 007 10:15am – 12:15pm**

All assignments are every third problem (ex. 13, 16, 19, 22 …) unless otherwise noted.
Last day to drop is Thursday, April 27, 2017