

Course Syllabus

Math 1314-200 – College Algebra

Summer 2018

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Office Hours: (by appointment)

Prerequisites: 2 years of high school algebra or Math 0320, TSI compliance

Supplies: a scientific calculator (All of the work must be done without a graphic calculator.)

Textbook (recommended): College Algebra, 9th edition, Larson, Cengage Learning, 2014

Lecture Notes and Homework Assignments: You are responsible to print and bring lecture notes to class each lecture day. The last page of the lecture note is the homework assignment. These can be accessed on Blackboard. (Class Homepage → Course Content → Unit 1...)

Course Specific Instructions: There are video tapes of many topics available in the 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. These videos can also be viewed online. Go to Blackboard, for the log in name and password, type “mvideos”. You can then find the appropriate course and the topic in which you are interested.

Course Description: A standard course in college algebra. Quadratic equations; ratio and proportion; variation; binomial theorem; inequalities; complex numbers; theory of equations; determinants and matrices.

Course Purpose/Rational/Goal: The purpose of the course is to provide a fundamental background in algebra to meet the mathematics requirement for the core curriculum and to provide a basis for further study in mathematics.

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

Course Evaluation: Your grade will be determined by the 4 in-class tests (100 points each) and homework assignments (200 points total). There will be no makeups for any test. If you miss a test by a valid reason/documentation or wish to bring up one of the regular test grades, then you must take the final exam, and your final test grade will replace your missed test (or the lowest test grade). For the rest of the students, taking the final examination is optional.

Homework: Homework will be assigned each day and will be picked up on Thursday of the week and the following Monday for the assignment from the previous Thursday. Homework assignments from any one week are considered as one weekly homework grade (40 points each week; 240 points possible). If you miss a class, you are expected to get the assignment from a classmate or the instructor and stay caught up. **All work will be shown on the homework, or it will be counted as not done.**

Assessment Procedures: The summary assessment of students' mastery of the skills and concepts as specified in the expected learning outcomes will occur, with appropriate course grades assigned as follows:

540 – 600	A	In-class tests (4 x 100)	400
480 – 539	B	Homework (5 x 40)	200
420 – 479	C		
360 – 419	D		
Below 360	F		
			600

Attendance Policy: A student who misses a total of three absences will be dropped from the class. If you miss a class, you are expected to get the assignment from a classmate or the instructor.

Student Learning Outcomes/Competencies:

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

1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

CORE OBJECTIVES:

Communication Skills: effective development, interpretation, and expression of ideas through written, oral, and visual communication.

- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through oral communication
- Develop, interpret, and express ideas through visual communication

Critical Thinking:

creative thinking, innovation, inquiry, analysis, evaluation, and synthesis of information.

- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information

Empirical and Quantitative Competency Skills:

the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

- Manipulate and analyze numerical data and arrive at an informed conclusion
- Manipulate and analyze observable facts and arrive at an informed conclusion

Academic Honesty: You are expected to uphold the ideas of academic honesty. All work that is graded must be your own. This policy applies to all work attempted in this course. If this policy is violated, the student will receive an **F** for the assignment and will be dropped with an **F**.

Tutoring: Students can obtain tutoring at no charge in Room 116 on the South Plains Campus in Levelland and at the Reese Center, Room RC212 in Building 2.

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 or her disability to the Special Services Coordinator, located in the Student Services Building, (806) 894-9611 ext. 2529) 2530 on the Levelland Campus and in rooms 809 and 811, Reese Center Building 8, (806) 885-3048 ext. 4654 on the Reese Campus.

Classroom Civility: Students are expected to assist in maintaining a classroom environment that is conducive to learning. Please be respectful of your fellow classmates. **Turn off all cell phones, pagers, and electronic devices (Ipods, Mp3 players, CD players, etc.) before entering the room** and refrain from reading newspapers, chewing tobacco products, or otherwise being disruptive in class.

“Your cellphone cannot be seen or heard.”

Consequence: loss of 5 points from the upcoming test for each violation

Religious Holy Days: In accordance with Section 51.911, Texas Education Code, South Plains College will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within seven (7) calendar days after the absence. Students are required to file a written notification of absence with each instructor within the first fifteen (15) days of the semester in which the absence will occur. Forms for this purpose are available in the Student Services Office along with instructions and procedures. “Religious holy dSection 11.20, Tax Code.

School Sponsored Events: If a student misses class because of participation (being a spectator at any sporting event does not qualify) in a school sponsored event (athletics, choir, etc.), it is the student’s responsibility to:

1. Inform the instructor about the absence **prior** to the date;
2. Hand in assignments due during planned absence **prior** to the absence (unless specifically granted permission to do otherwise);
3. Arrange with instructor to take any exams that will be missed during the period of absence.

Disclaimer: The instructor reserves the right to alter any class policies as deemed necessary by the instructor, and will announce any changes in class. If a student has any questions about a change in policy, ask the instructor for clarification.

Recording Lectures: To improve the teaching method, the instructor may record the lecture with or without a notice.

Dropping a Course: You have to return a completed official drop form to the Admissions and Records office, if you decide to drop the course, by:

Monday, August 6	Last Day to Drop a Course
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Then, a student will receive a W (no grade penalty).

Final Examination: Thursday, August 16	Regular class hour	RC 227 (this classroom)
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Math 1314 Tentative Calendar and Assignments (Summer II 2018)

Week	Date	Sections
1	Thur., July 12	Introduction, §1.1, 1.2
2	July 16 - July 19	§1.2, 1.3, 1.4 1.5, 1.6, 2.1, 2.2, 2.3
3	Mon., July 23 Tue., July 24 July 25 - July 26	§2.3, 2.4 <u>§2.4, Test 1 (§1.1 ~ §2.2)</u> §2.5, 2.6, 2.7, 3.1
4	Monday, July 30 Tue., July 31 August 1 - August 2	§3.1, 3.2 <u>§3.2, Test 2 (§2.3 ~ §2.7)</u> §3.2, 3.3 3.4, 3.5, 4.1
5	Mon., Aug. 6 Tue., Aug. 7 Aug 8 - August 9	§4.1, 4.2 <u>§4.2, Test 3 (§3.1 ~ §3.5)</u> §4.2, 4.3, 4.5
6	Mon., Aug. 13 Tue., Aug. 14 Wed., Aug. 15 Thurs., August 16	§4.5, 4.6 §4.6, Review <u>Test 4 (§4.1 ~ §4.6)</u> <u>Final Examination (Comprehensive)</u>