

South Plains College
Common Course Syllabus: MATH 1314
Revised December 2019

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1314

Course Title: College Algebra

Available Formats: conventional, internet, and ITV

Campuses: Levelland, Reese, Plainview, Lubbock Center, and Dual Credit

Course Description: In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

Prerequisite: Minimum score of 350 on the TSIA, TSI-exempt status, or a successful completion with a grade of 'C' or better in MATH 0320.

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

Textbook: *College Algebra with Intermediate Algebra: A Blended Course*, Beecher, Penna, Johnson, and Bittinger, 2018, 1st Edition, Prentice Hall/Pearson Education

Supplies: Please see the instructor's course information sheet for specific supplies.

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

Core Curriculum Objectives addressed:

- **Communications skills**—to include effective written, oral and visual communication
- **Critical thinking skills**—to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes: 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.

Student Learning Outcomes Assessment: A pre- and post-test questions will be used to determine the extent of improvement that the students have gained during the semester

Course Evaluation: There will be departmental final exam questions given by all instructors.

Attendance Policy: Attendance and effort are the most important activities for success in this course. Records of your attendance are maintained throughout the semester. Five (5) absences, **for any reason**, are allotted to the student for the semester. Tardies count as one-half (1/2) of an absence. Tardies will be applied for consistently being late to class, as deemed by the instructor and leaving class early. If this number is exceeded, the instructor has the right to drop you with a grade of F or an X, depending on their discretion.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

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.

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.

Nondiscrimination Policy: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Title IX Pregnancy Accommodations Statement: If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To [activate](#) accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or [email cgilster@southplainscollege.edu](mailto:cgilster@southplainscollege.edu) for assistance.

Campus Concealed Carry: Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php> Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

SPC Bookstore Price Match Guarantee Policy: If you find a lower price on a textbook, the South Plains College bookstore will match that price. The difference will be given to the student on a bookstore gift certificate! The gift certificate can be spent on anything in the store.

If students have already purchased textbooks and then find a better price later, the South Plains College bookstore will price match through the first week of the semester. The student must have a copy of the receipt and the book has to be in stock

at the competition at the time of the price match.

The South Plains College bookstore will happily price match BN.com & books on Amazon noted as *ships from and sold by Amazon.com*. Online marketplaces such as *Other Sellers* on Amazon, Amazon's Warehouse Deals, *fulfilled by Amazon*, BN.com Marketplace, and peer-to-peer pricing are not eligible. They will price match the exact textbook, in the same edition and format, including all accompanying materials, like workbooks and CDs.

A textbook is only eligible for price match if it is in stock on a competitor's website at time of the price match request. Additional membership discounts and offers cannot be applied to the student's refund.

Price matching is only available on in-store purchases. Digital books, access codes sold via publisher sites, rentals and special orders are not eligible. Only one price match per title per customer is allowed.

Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

Course-Specific College Algebra Syllabus
Math 1314.009
Spring 2020

Instructor: Leah Chenault **Office:** M106 **Telephone:** (806)716-2740

Email: lchenault@southplainscollege.edu (preferred method of contact)

Office Hours: As listed below or by appointment. Also, on most days, I am around for a few minutes both before and after class.

Monday	Tuesday	Wednesday	Thursday	Friday
9:30am - 10:45am 1:00 pm – 2:15pm	NA	9:30am - 10:45am 1:00 pm – 2:15pm	NA	8:30 am–11:30am

Disclaimer: The instructor reserves the right to alter any class policies/dates as deemed necessary by the instructor. If there are any changes, they will be announced **in class**.

Showing Work: To receive full credit on an assignment, you must show all work that leads to your answer(s). The work must be legible, make sense and be easy to follow.

Course Supplies:

- Required: Scientific Calculator (with log and ln). Suggested TI-30XIIS. They are inexpensive and user friendly. Graphing calculators are not allowed. There may be some assignments where you are not allowed to use any calculator.
- Required: Large 3-ring binder, dividers, notebook paper, graph, hole punch, pencils, and erasers.
- Printed Notes: No book is required, but a blank copy of the notes will be posted on Blackboard and you will be expected to print them and have them in class. You are expected to fill them out during class. If you miss class for any reason, you will need to get a copy of someone else's filled out notes. Your completed notes handouts will be a requirement in the binder check.
- Warning: Do not expect your instructor to have supplies for you to borrow.

Homework/Quizzes:

- Homework will be assigned at each class. Work the problems early enough to seek help if needed.
- Homework is due at the beginning of the next class. Late homework will not be accepted. If you are going to be absent, I will accept your homework via email as long as that email is time-stamped before our scheduled class time and you give me a valid reason for your absence. If the email does not have those two things, you will receive a zero on the assignment.
- Quizzes will be given most days. Make-up quizzes will NOT be given. If you miss a quiz, your quiz grade for the day will be a zero.
- Each daily assignment grade will consist of 50% homework and 50% quiz.
- On all assignments, you are expected to write your full name at the top, give the assignment a title (page number etc) and clearly number the questions on your work.

- At the end of the semester the lowest 4 grades (homework/quiz/binder) will be dropped.

Binder:

- All students will keep a binder which will be used as a reference and study guide.
- The binder will be graded randomly by the instructor during the semester.

Binder organization:

- Section 1: Syllabus
- Section 2: Unit 1: By section Notes, Assignment, and Quiz (corrected on a separate sheet of paper behind the quiz). At the end of the unit you will have a review and an Exam.
- Section 3: Unit 2
- Section 4: Unit 3
- Section 5: Unit 4
- Section 5: Post Unit 4 material and Comprehensive Review These pages will be kept in chronological order.

Note: Being absent does not excuse you from notes, homework or quizzes. Everything is available on Blackboard and should be printed and completed even if you are not in class.

Exams:

- 4 Unit Exams
- Leaving the class during an exam is not permitted.
- Final Exam is comprehensive and departmental.
- There are no exemptions for the final.
- If you are going to miss an exam, contact your instructor immediately (preferably prior to the exam). Make up exams are very rare and only provided under extreme, documented circumstances.
- If your grade on your final exam is higher than one of the unit tests, I will replace that unit test grade with your final exam grade.
- All electronic communication devices (phones, smart watches etc) must be put away during exams. Failure to do so will result in a grade of zero on the exam.

Grading Formula:

Class attendance and a strong work ethic do not guarantee a passing grade. However, these two things are extremely important and do increase the likelihood of passing. The final responsibility for learning lies with the student. The final letter grade for this course will be based on the following:

- 4 Unit Tests 15% each60%
- Homework/Quizzes/Binder..... 15%
- Final Exam.....25%

Final Grade Determination: A 90-100 B 80-89 C 70-79 D 60-69 F 59
or below

Classroom Etiquette:

- Preparation for class (including homework) is to be completed before – not during – the lecture.
- Chronic tardiness is unacceptable. We will begin promptly at the scheduled time for the class. A tardy counts as half an absence.
- Students are expected to be respectful of their fellow classmates and maintain a classroom environment that is conducive to learning. Refrain from using offensive language, talking loudly or off-topic, working on outside assignments, or otherwise being disruptive in class.
- NO tobacco use of any form is allowed in the classroom.
- Discussion of course material among students is encouraged during class, but habitually disruptive students will be asked to leave.
- All electronic communication devices are to be silenced and put away during class unless you are specifically told otherwise by your instructor. You will be given one verbal warning, after which you will be asked to leave.
- If I have to ask you to leave class for any reason (class disruption, cell phone usage etc), you will receive a zero for the day's assignment.
- If you sleep during class, you will be counted absent and receive a zero for that day's assignment.
- Food and/or drinks are NOT allowed in the classroom.
- All electronic communication with the instructor should take place via your SPC email account. You are expected to check this email account often for any class or individual communication that I did not get a chance to mention in class. Please consider that it is hard to read tone from email so let's give each other the benefit of the doubt.

Resources:

- Blackboard! The course syllabus, calendar, gradebook, notes, homework, quiz keys, and reviews will be available on Blackboard. Be sure to check Blackboard regularly. There may also be times where I post videos that may supplement/reinforce what we have done in class.
- Free tutoring is available in M116 on the Levelland campus. You will need your student ID to check in for tutoring.
- I am available to help you! Feel free to come by during my office hours or email me at lchenault@southplainscollege.edu.
- Free tutorial videos are available at the following sites: <http://patrickjmt.com/>, <http://www.mathtv.com/>, and <http://www.khanacademy.org/>.
- Online one-on-one tutoring via the TutorMe service. A link should be posted on Blackboard.

Succeeding in a Math Class:

- Attend class every class period.
- Be mentally present! Take notes, pay attention and ask questions during class.
- Do all homework when it is assigned. Work on it early enough so that you can seek help if you need it.
- For every hour spent in class, you should expect to spend 2-3 hours outside of class working on this course. This includes time spent on homework and studying for quizzes and exams.
- Get to know at least one other person in class and exchange contact information. Study groups are encouraged.
- Get help as soon as you feel yourself falling behind! Don't wait!
- I have found that the best way for a student to study for a math exam is to practice working problems over and over.
- Everyone learns and studies differently. I encourage you to seek out and find what works best for you.

Withdrawal Policy: As required by Texas Education Code Section 51.907, all new students who enroll in a Texas public institution of higher education for the first time beginning with the 2007 fall semester and thereafter, are limited to six course drops throughout their entire undergraduate career. All course drops, including those initiated by students or faculty and any course a transfer student has dropped at another institution, automatically count toward the limit. After six grades of W are received, students must receive grades of A, B, C, D, or F in all courses. There are other exemptions from the six-drop limit and students should consult with a Counselor/Educational Planner before they drop courses to determine these exemptions. Students receiving financial aid must get in touch with the Financial Aid Office before withdrawing from a course. It is the student's responsibility to drop. Excessive absences (4 consecutive or 5 total) will result in an administrative withdrawal with a Grade of X or F. If you plan to withdraw, please consult with the instructor immediately. **Note: The last day to drop with a grade of W is Thursday, April 23, 2020.**

College Algebra Tentative Course Outline – Spring 2020
Math 1314.009 (T/Th 2:30 p.m. – 4:15 p.m.)

Week	Date	Day	Lesson/Assignment
1	Jan 14 th	Tues	Introduction Assignment 1: Linear & Rational Equations including Pre-skills Review
	Jan 16 th	Thurs	Skills Assessment, Assignment 2: Linear Applications
2	Jan 21 st	Tues	Assignment 3: Complex Numbers; Quadratic Equations Part 1
	Jan 23 rd	Thurs	Assignment 4: Quadratic Equations Part 2, Radical Equations
3	Jan 28 th	Tues	Assignment 5: Other Types of Equations; Linear and Absolute Value Inequalities
	Jan 30 th	Thurs	Unit 1 Review
4	Feb 4 th	Tues	Unit 1 Exam (15%), Binder Check
	Feb 6 th	Thurs	Assignment 7: Function Notation and Graphs
5	Feb 11 th	Tues	Assignment 8: Linear Functions and Slope
	Feb 13 th	Thurs	Assignment 9: Distance, Midpoint, & Circles, Combinations of Functions, Composite Functions
6	Feb 18 th	Tues	Assignment 10: Inverse Functions, Quadratic Functions
	Feb 20 th	Thurs	Assignment 11: Long Division, Synthetic Division, Roots of Polynomials
7	Feb 25 th	Tues	Unit 2 Review
	Feb 27 th	Thurs	Unit 2 Exam (15%)
8	Mar 3 rd	Tues	Assignment 12: Polynomial Functions & Their Graphs
	Mar 5 th	Thurs	Assignment 13: Rational Functions & Their Graphs
9	Mar 10 th	Tues	Assignment 14: Polynomial & Rational Inequalities, Compound Interest
	Mar 12 th	Thurs	Assignment 15: Exponential Functions; Logarithmic Functions
10	Mar 24 th	Tues	Assignment 16: Properties of Logarithms, Solving Exponential Equations Part 1
	Mar 26 th	Thurs	Assignment 17: Solving Exponential Equations Part 2, Solving Logarithmic Equations
11	Mar 31 st	Tues	Unit 3 Review
	Apr 2 nd	Thurs	Unit 3 Exam (15%)
12	Apr 7 th	Tues	Assignment 19: 2x2 Systems; 3x3 Systems
	Apr 9 th	Thurs	Assignment 20: Nonlinear Systems; Graphing Inequalities & Systems of Inequalities, Graphing Nonlinear Systems of Inequalities
13	Apr 14 th	Tues	Assignments 21: Solving Systems of Equations by Gauss Jordan Elimination
	Apr 16 th	Thurs	Assignment 22: Solving Systems by Cramer's Rule
14	Apr 21 st	Tues	Unit 4 Review
	Apr 23 rd	Thurs	Unit 4 Exam (15%)
15	Apr 28 th	Tues	Comprehensive Review
	Apr 30 th	Thurs	Comprehensive Review
16	May 4 th -7 th		Final Exam Week: Tentative Exam Time: Tuesday, May 5th from 1:00-3:00

Note: This schedule is tentative and may be altered as deemed necessary by the instructor. If there are any changes, they will be announced **in class**.