

South Plains College
Common Course Syllabus: MATH 1314 College Algebra
Fall 2024

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1314

Section: 613

Course Title: College Algebra

Available Formats: conventional, hybrid, internet, and ITV. This section primarily meets face-to-face, but also utilizes the internet.

Campuses: Levelland, Lubbock Downtown Center, Plainview Center and Dual Credit. This section meets face-to-face on the Lubbock Downtown campus each week on Tuesdays and Thursdays from 11:00am-12:45pm in room B010 in the basement.

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 TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of a 6 on the TSIA2, TSI-exempt status, or a successful completion with a grade of 'C' or better in MATH 0320, or successful completion of NCBM-0114.

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

Instructor: Jennifer Bartlett

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Email: jkbartlett@southplainscollege.edu

Email Policy: All students at South Plains College are assigned a standardized SPC e-mail account. Although personal email addresses will continue to be collected, the assigned SPC e-mail account will be used as the official channel of communication for South Plains College. The Student Correspondence Policy can be found at www.southplainscollege.edu. To access the SPC student e-mail account, log in to portal.office.com. (Copied from SPC Student Guide) Since all students have an assigned SPC email, the instructor will only acknowledge, respond, and send emails to your assigned SPC email. This ensures all correspondence from the instructor is received by the intended recipient.

Blackboard Messages: I do not use or check messages in Blackboard, so please email me any questions.

Virtual/Face-to-Face Office Hours:

- Mondays: 10:35-11:35am, Levelland Campus Math 113
- Tuesdays: 12:45-2:15pm, Lubbock Downtown Campus B009
- Wednesdays: 10:35-11:35am and 2:15-3:15pm, Levelland Campus Math 113
- Thursdays: 12:45-2:15pm, Lubbock Downtown Campus B009
- Fridays: 8:30-10:30am, location to be announced weekly on Blackboard
- And by appointment, as needed. (The appointments can be scheduled in Blackboard.)
- Virtual office hours also may be scheduled in Blackboard.

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

Supplies:

- Calculator: You may use a scientific calculator on most homework, quizzes, and exams. A TI-30 is one type, but many others are also acceptable. Graphing calculators, cell phones and similar devices may NOT be used as calculators and no sharing of calculators is allowed. If you have any questions about your calculator check with the instructor immediately.
- Paper, maybe a small amount of graph paper, pencils, and erasers
- Access to a reliable internet service, a way to print and scan documents, a device with the capability to participate in Zoom/Collaborate meetings with video and audio
- You may want 3-ring binder (about 2 inch) and dividers to keep track of all the course materials

Blackboard: Blackboard is the online course management system that will be utilized for this course. This course is supplemented online, so all access to course information and your instructor is through the Internet. This course syllabus, as well as all course materials can be accessed through Blackboard. Login at <https://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)

Questions regarding Blackboard support may be emailed to blackboard@southplainscollege.edu or by telephone to 806-716-2180.

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. Your final average in the course will determine the letter grade posted on your transcript. Grades will be updated on Blackboard during the semester. Your grade is determined by the following scale: A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (0-59%).

- Daily Work (Assignments, Quizzes, Labs, etc.) = 15%
- Unit Exams (3 total) = 60% (20% for each exam)
- Final Exam = 25%

Assignment Format and Policy: Assignments are given after each lesson and are collected according to the tentative course schedule below. Expect a quiz to accompany each assignment. For each question on each assignment:

- Work on your own paper, not the assignment sheet that is given.
- Write the question number.
- In solving the problem, show all necessary work.
- Clearly mark your answer.
- Check your answers to make certain you are practicing the exercises correctly.
- Write your name at the top of each page of your work.
- Submit the assignment work with your notes for the section in Gradescope as a single pdf file, preferably using the Gradescope app. (Pdf files can also be generated easily using a scanner or many freely available phone apps, like CamScanner, Scannable, or OneDrive.)

Make certain to complete and submit assignments on time (or early). Early submissions are welcomed! Late assignments will not be accepted.

Quiz Format and Policy: Expect a face-to-face quiz to be administered at most every class session. No late quizzes will be accepted, as quizzes are to be taken during class time.

Exam Format and Policy: There will be three-unit exams in this course. Exams will tentatively be given on the day listed on the course calendar and will be announced in class. All exams must be taken in pencil. Students may not leave the examination room for any reason without turning in their exam for grading.

Final Exam: The comprehensive final will be given on Tuesday, December 10th from 10:15am to 12:15pm. No make-up final will be given.

Make-up Quizzes/Exams: No make-up, or late, homework assignments will be given. No make-up quizzes and exams are given without prior notification AND proper documentation. If are absent from a quiz or exam, you must give prior notification and proper documentation of your absence. Students who do not take exams at the normal time, early or late, forfeit the right to attempt any extra credit on that quiz or exam.

To maximize your potential for successfully completing this course:

- login to Blackboard daily
- thoroughly complete and submit the assignments on time (or early)
- practice the exercises repeatedly until you have full mastery of them
- watch the lecture videos and take notes on them
- ask questions when you have them

Attendance/Student Engagement Policy: Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the total class meetings and submit at least eighty percent (80%) of the total class assignments to have the best chance of success. If the student fails to meet these minimum requirements, the instructor may remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student can not receive an X, the instructor will assign an F.

SPC Tutors (before 8pm)

Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online! Visit the link below to learn more about how to book an appointment, view the tutoring schedule, and view tutoring locations.

<http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php>

Brainfuse (after 8pm and weekends)

You also have 180 free minutes online tutoring with Brainfuse each week. Log into Blackboard, click on the "Assist" or "Tools" option from the left-hand menu bar. Click on the Brainfuse Live Tutoring link and you will automatically be logged in for free tutoring. You may access Brainfuse tutors during the following times:

Monday – Thursday: 8pm-8am

6pm Friday – 8am Monday morning

For questions regarding tutoring, please email tutoring@southplainscollege.edu or call 806-716-2538.

Academic Integrity (Plagiarism and Cheating Policy): "Complete honesty is required of the student in the presentation of any and all phases of course work. This idea applies to quizzes of whatever length as well to final examinations, to daily reports, and to term papers." (*SPC General Catalog*)

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.

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension. (*SPC General Catalog*)

Plagiarism and cheating are not tolerated in this course. Under the policies of South Plains College, punishment for cheating may include no credit (failing) on the assignment, quiz, exam, or the course.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior. 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.

COVID Response: South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: [COVID Response \(southplainscollege.edu\)](https://southplainscollege.edu/COVID-Response).

Diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, Campus Concealed Carry: South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here: [Syllabus Statements \(southplainscollege.edu\)](https://southplainscollege.edu/Syllabus-Statements).

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.

Math 1314 Tentative Calendar Fall 2024 Tuesdays & Thursdays, Lubbock Downtown Campus, Basement Room 010 Section 613: 11:00am – 12:45pm		
Date	Topic	Assignments <ul style="list-style-type: none"> • Assignments are due by <u>noon</u> of the corresponding Fridays • Quizzes are due by the end of the class meeting
Week 1: Aug 26-30	Course Introduction 1.1: Linear & Rational Equations 1.2: Linear Applications	1.1, 1.2
Week 2: Sept 3-6 (<i>Mon, Sept 2nd is a holiday, Campus Closed</i>)	1.3: Complex Numbers & Quadratic Equations (Part 1 of 2) 1.4: Quadratic Equations (Part 2 of 2)	1.3, 1.4
Week 3: Sept 9-13	1.5: Other Types of Equations 1.6: Linear & Absolute Value Inequalities	1.5, 1.6
Week 4: Sept 16-20	Unit 1 Exam (Tues, Sept 17 th) 2.1: Functions and Their Graphs	2.1
Week 5: Sept 23-27	2.2: Combinations, Composite & Inverse Functions 2.3: Linear Functions	2.2, 2.3
Week 6: Sept 30 – Oct 4	2.4: Quadratic Functions 2.5: Distance, Midpoint & Circles	2.4, 2.5
Week 7: Oct 7-11	2.6: Dividing Polynomials & Rational Zero Theorem Review for Unit 2 Exam	2.6
Week 8: Oct 14-17 (<i>Fri, Oct 18th is Fall Break, Campus Closed</i>)	Unit 2 Exam (Tues, Oct 15 th) 3.1: Polynomial Functions	3.1
Week 9: Oct 21-25	3.2: Rational Functions 3.3: Polynomial & Rational Inequalities	3.2, 3.3
Week 10: Oct 28 – Nov 1	3.4: Exponential & Logarithmic Functions 3.5: Properties of Logarithms & Logarithmic Equations	3.4, 3.5
Week 11: Nov 4-8	3.6: Solving Exponential Equations & Compound Interest Review for Unit 3 Exam	3.6
Week 12: Nov 11-15	Unit 3 Exam (Tues, Nov 12 th) 4.1: Systems of Linear Equations	4.1
Week 13: Nov 18-22	4.2: Nonlinear Systems & Systems of Inequalities 4.3: Matrix Solutions to Systems	4.2, 4.3
Week 14: Nov 25-26	4.4: Determinants & Cramer's Rule	4.4 (due Wed, Nov 27 th)
<i>Nov 27-29</i>	<i>No School – Thanksgiving Break</i>	
Week 15: Dec 2-6	<i>Last Day to Drop (Mon, Dec 2nd)</i> Unit 4 Exam (Tues, Dec 3 rd) Review for Final Exam	
Week 16: Dec 9-13 (Commencement is on Fri, Dec 13 th)	Final Exam Tuesday, December 10th Section 613: 10:15am – 12:15pm	