

South Plains College
Common Course Syllabus: MATH 1314
Revised July 2023

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1314

Course Title: College Algebra

Available Formats: conventional, hybrid, internet, and ITV

Campuses: Levelland, Downtown Center, Plainview 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 TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of 6 on the TSIA2, TSI-exempt status, 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

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/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.

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 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.

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title IX Pregnancy Accommodations, CARE Team, and

Campus Concealed Carry, please visit
<https://www.southplainscollege.edu/syllabusstatements/>.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: <https://www.southplainscollege.edu/emergency/covid19-faq.php>.

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.

Instructor's Course Information

Course: MATH 1314 – College Algebra

Section: 609 – meets on Monday from 5:20-6:55pm in B009 at the Lubbock Downtown Center

Term: Fall 2023

Instructor: Jerod Clopton

Office: Lubbock Downtown Center, B019

Telephone: (806) 716-2738

Email: jclopton@southplainscollege.edu

Virtual / Face-to-Face Office Hours:

- Monday: 10:00-11:30am, 4:15-5:15pm
- Tuesday: 2:00 - 3:30pm
- Wednesday: 10:00-11:30am
- Thursday: 2:00 - 3:30pm
- Fridays: 10:00-11:00am
- And by appointment, as needed. (The appointments can be scheduled in Blackboard.)
- Virtual office hours also may be scheduled in Blackboard.

Email Policy: All students at South Plains College are assigned a standardized SPC email. Log into portal.office.com to access to you SPC email account. The instructor will only acknowledge, respond, and receive emails to your assigned email address.

- My expected response time to received emails is as follows:
 - For emails sent on Monday-Thursday, I will attempt to respond within 24 hours.
 - For emails sent on Friday-Sunday, I may not respond until the following Monday.
- I will not be checking / responding to messages sent through the Blackboard messaging system.

Textbook: A textbook is not required for this course; however, a recommended and freely available textbook for this course may be: College Algebra from OpenStax, Print ISBN 1938168380, Digital ISBN 1947172123, www.openstax.org/details/college-algebra

This textbook is also embedded in your Blackboard course for easier referencing. However, if you prefer a print copy as a reference tool, the ISBN is located at the web link above.

Supplies: Besides pencils (please show your work in pencil) and paper, you will need a scientific calculator and a small supply of graph paper. Calculators on cell phones, TI-89, TI-92, or TI-Inspire calculators, or any other electronic devices will not be allowed during testing without permission from the instructor. Make certain you have access to a scanner or scanning app. Gradescope is the recommended app. Other apps such as CamScanner, Scannable, OneDrive, etc. are helpful in order to scan your assignments/quizzes and submit them through Blackboard.

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 username and password should be the same as the MySPC and SPC email.

Username: first initial, last name, and last 4 digits of the Student ID

Password: Original Campus Connect Pin No. (found on SPC acceptance letter)

Course Evaluation: Assignments and quizzes will count for 20% of the final grade, while exams count for 80% of the final grade. Expect 25 assignments, approximately 10 quizzes, and 5 scheduled exams throughout the course. Your final average in the course will determine the letter grade posted on your transcript. This grade is determined by the following scale:

A (90-100%), B (80-89%), C (70-79%), D (60-69%), F (0-59%).

- Assignments/Quizzes = 20%
- Exam 1 = 20%
- Exam 2 = 20%
- Exam 3 = 20%
- Final Exam = 20%

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

- Write the question number.
- In solving the problem, show all necessary work.
- Clearly mark your answer.
- Check your answers in Blackboard to make certain you are practicing the exercises correctly.
- Write your name at the top of each page of your work.
- Submit the assignment in Gradescope as a single pdf file, preferably using the Gradescope app. (Pdf files can be generated easily using a scanner or many freely available phone apps, like CamScanner, Scannable, or OneDrive.)
- All homework assignments will be due by noon on the Thursday of the corresponding week (unless otherwise stated).

Make certain to complete and submit assignments on time (or early). Early submissions are welcomed! Late assignments will be accepted with a 15% deduction up to the time of the unit exam. Assignments may not be submitted after the unit exam.

Quiz Format and Policy: Expect an online quiz to be administered each week throughout the semester. These quizzes will be taken through Blackboard with the Proctorio extension. To download the Proctorio extension, go to <https://proctorio.com/support>. Students may use their notes and or homework while taking a quiz. No other outside resources may be used. No makeup quizzes will be given.

Exam Format and Policy: During this course three (3) online exams will be given. These exams will be taken through Blackboard with the Proctorio extension. To download the Proctorio extension, go to <https://proctorio.com/support>. No makeup exams will be given.

When taking quizzes or exams online, follow the following guidelines:

Online exam guidelines:

1. Sign on to Blackboard and navigate to the exam.
2. Proctorio will have you perform some checks on your computer and show your ID.
3. Proctorio records any websites visited during the exam.
4. Show all work on paper. You do not need to type the answers in the blanks.
5. Exams are to be completed without the use of outside resources.
6. No one should be with you while you are taking the exam.
7. Show your workspace. Your hands and paper should be visible on the video throughout the exam.
8. Show your cell phone. It should also be visible throughout the exam but should not be touched until the end.
9. When you have completed the exam, use your cell phone and the Gradescope app to make a single pdf of your work and formula sheet. Do this while the timer is still running and the camera is showing you making the pdf.
10. Upload your work to Gradescope.
11. If anything happens, such as, you are kicked out of the exam, immediately email your work to me (even if it is incomplete) at jclopton@southplainscollege.edu. You must do this within 15 minutes of the test ending. If you were unable to complete the exam, include that explanation in the email with your work. I will try to resolve the problem quickly. Try to remain calm.
12. When you are finished, click submit on the exam.
13. Failure to follow these guidelines may result in a zero on the exam or being dropped from the course. I reserve the right to ask you to work any problem on the exam that you answered correctly.

Final Exam: At the end of the semester there will be a face-to-face, comprehensive, final examination. This exam will be given on Monday, December 11th from 5:00–7:00pm.

To maximize your potential for successfully completing this course:

- Login to Blackboard daily.
- Watch the lecture videos and take notes on them.
- Thoroughly complete and submit the assignments on time.
- Practice the exercises repeatedly until you have full mastery of them.

Attendance / Engagement Statement: Attendance and engagement are potentially the most critical activities for success in this course.

Before arriving for the class meeting, make certain you have:

- worked through the notes and videos for that day's lessons;
- completed some of the assigned exercises.

Upon arriving at the class meeting, we will:

- answer questions over exercises;
- work through lab exercises;
- submit assignments and quizzes.

SPC Tutors

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>

Tutor.com

You also have 180 FREE minutes of tutoring with Tutor.com each week, and your hours reset every Monday morning. Log into Blackboard, click on the tools option from the left-hand menu bar. Click on the Tutor.com link and you will automatically be logged in for free tutoring. You may access tutor.com tutors during the following times:

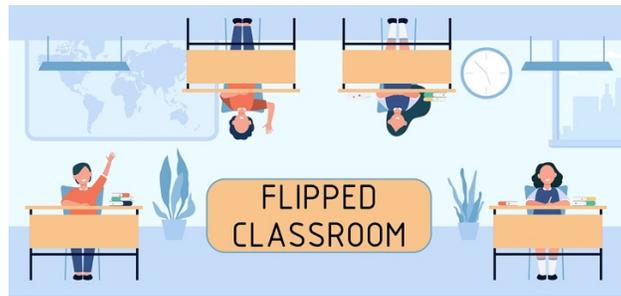
Monday – Thursday: 8pm-8am

6pm Friday – 8am Monday morning

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

Plagiarism and Cheating Statement: 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.



Tips for Learning in a Flipped Classroom

This class is a flipped classroom and will operate differently than the face-to-face classroom that you have previously experienced. In a flipped classroom you will spend time outside of class watching and taking notes from lecture videos while during class you will work on your homework assignments. This flipped classroom setting will open more opportunities for me, the instructor, to work with you by addressing homework questions, facilitating class discussions, and having collaborative assignments. Here are some suggestions that will help you operate with in this flipped classroom environment and help you successfully complete this course.

Lecture Videos

- Watch the lecture videos in a quiet and distraction-free setting
- Silence your cellphone
- Close all other tabs and windows on your computer
- Disconnect from any social media while watching the lecture videos
- Have class notes or notebook and writing device for taking notes
- Use a set of headphones to watch to videos, in order to cancel all ambient noise

Note-Taking Tips

- Take careful notes from the videos
- Draw appropriate diagrams and charts in your notes
- Frequently pause the video to take notes
- “Rewind” the video when you don’t understand things
- When the instructor tells you to solve a problem or write something down, do it
- Write down questions in your notes from the lecture video when you don’t understand something

How to Prepare for Assessments

- Contact the instructor with your questions and ask the instructor for help and clarification
- Work with your classmates
- Offer to help your classmates with things you understand
- Ask for help from your classmates when they understand more than you
- Take any opportunity to review current and previous material
- Review graded assessments and seek to understand any errors made in your work

Tentative Course Calendar: College Algebra (Section 609)

Fall 20233

| Date | | Topic | Assignment Due Dates |
|--------|--|--|--|
| | | Each Monday we will address questions from that week's homework assignments. Come to class prepared. This means that you have watched the corresponding lecture videos, filled out the notes, and have begun working on the homework assignment. | All assignments, quizzes, and exams are due by 11:59pm on Thursday of the corresponding week |
| Week 1 | Mon, Aug 28 | Course Introduction | |
| | | Asgmt 1: Linear Equations | Thur, Aug 31 |
| | | Asgmt 2: Rational Equations | Thur, Aug 31 |
| | Quiz 1 (online: taken though Blackboard) | | Thur, Aug 31 |
| Week 2 | Mon, Sep 4 | Labor Day Holiday | |
| | | Asgmt 3: Linear Applications | Thur, Sept 7 |
| | Quiz 2 (online: taken though Blackboard) | | Thur, Sept 7 |
| Week 3 | Mon, Sep 11 | Asgmt 4: Complex Numbers | Thur, Sept 7 |
| | | Asgmt 5: Quadratic Equations | Thur, Sept 14 |
| | Quiz 3 (online: taken though Blackboard) | | Thur, Sept 14 |
| Week 4 | Mon, Sep 18 | Asgmt 6: Other Types of Equations | Thur, Sept 21 |
| | | Asgmt 7: Linear and Absolute Value Inequalities | Thur, Sept 21 |
| | Quiz 4 (online: taken though Blackboard) | | Thur, Sept 21 |
| | Exam 1 (online: taken though Blackboard) | | Thur, Sept 21 |
| Week 5 | Mon, Sep 25 | Asgmt 8: Functions and Their Graphs | Thur, Sept 28 |
| | | Asgmt 9: Linear Functions and Slope | Thur, Sept 28 |
| | Quiz 5 (online: taken though Blackboard) | | Thur, Sept 28 |
| Week 6 | Mon, Oct 2 | Asgmt 10: Distance, Midpoint, and Circles | Thur, Oct 5 |
| | | Asgmt 11: Combination and Composition of Functions | Thur, Oct 5 |
| | Quiz 6 (online: taken though Blackboard) | | Thur, Oct 5 |
| Week 7 | Mon, Oct 9 | Asgmt 12: Inverse Functions | Thur, Oct 12 |
| | | Asgmt 13: Quadratic Functions and Synthetic Division | Thur, Oct 12 |
| | Quiz 7 (online: taken though Blackboard) | | Thur, Oct 12 |
| | Exam 2 (online: taken though Blackboard) | | Thur, Oct 12 |

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| Week 8 | Mon, Oct 16 | Asgmt 14: Roots of Polynomials | Thur, Oct 19 |
| | | Asgmt 15: Polynomial Functions and Their Graphs | Thur, Oct 19 |
| | Quiz 8 (online: taken though Blackboard) | | Thur, Oct 19 |
| Week 9 | Mon, Oct 23 | Asgmt 16: Rational Functions and Their Graphs | Thur, Oct 23 |
| | | Asgmt 17: Polynomial and Rational Inequalities | Thur, Oct 23 |
| | Quiz 9 (online: taken though Blackboard) | | Thur, Oct 23 |
| Week 10 | Mon, Oct 30 | Asgmt 18: Exponential and Logarithmic Functions | Thur, Nov 2 |
| | | Asgmt 19: Properties of Logarithms | Thur, Nov 2 |
| | Quiz 10 (online: taken though Blackboard) | | Thur, Nov 2 |
| Week 11 | Mon, Nov 6 | Asgmt 20: Exponential Equations | Thur, Nov 9 |
| | | Asgmt 21: Logarithmic Equations | Thur, Nov 9 |
| | Quiz 11 (online: taken though Blackboard) | | Thur, Nov 9 |
| | Exam 3 (online: taken though Blackboard) | | Thur, Nov 9 |
| Week 12 | Mon, Nov 13 | Asgmt 22: 2x2 and 3x3 Systems of Equations | Thur, Nov 16 |
| | | Asgmt 23: Matrix Solutions to Systems | Thur, Nov 16 |
| | Quiz 12 (online: taken though Blackboard) | | Thur, Nov 16 |
| Week 13 | Mon, Nov 20 | Asgmt 26: Determinant's and Cramer's Rule | Thur, Nov 23 |
| | Quiz 13 (online: taken though Blackboard) | | Thur, Nov 23 |
| Week 14 | Mon, Nov 27 | Asgmt 25: Nonlinear Systems and Systems of Inequalities | Thur, Nov 30 |
| | Quiz 14 (online: taken though Blackboard) | | Thur, Nov 30 |
| Week 15 | Mon, Dec 4 | Review for Final Exam | |
| Week 16 | Mon, Dec 11 | Final Exam from 5:00-7:00pm (in-class; face-to-face examination) | |