South Plains College
Common Course Syllabus: College Algebra (MATH 1314)
Spring 2024

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1314

Section: 607 (Mondays and Wednesdays, 11:00am-12:45pm, Lubbock Downtown Center, room B009)

Course Title: College Algebra

Available Formats: conventional, hybrid, internet, and ITV. This class will be of the conventional format.

Campuses: Levelland, Downtown Center, Plainview Center, and Dual Credit. This class meets face-to-face at the Lubbock Downtown Center in room B009.

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

Instructor: Jerod Clopton
Office: Lubbock Downtown Center, B019
Telephone: (806) 716-2738
Email: jclopton@southplainscollege.edu

Email Policy: All students at South Plains College are assigned a standardized SPC email. Log into portal.office.com to access to your 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:
  o For emails sent on Monday-Thursday, I will attempt to respond within 24 hours.
  o 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.

Virtual/Face-to-Face Office Hours:
- Monday: 3:00-5:00pm
- Tuesday: 9:00-11:00am
- Thursday: 9:00-11:00am
- Fridays: 10:00am-12:00pm
- And by appointment, as needed. (The appointments can be scheduled in Blackboard.)
- Virtual office hours also may be scheduled in Blackboard.

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)

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 (assignments, quizzes, and major exams) 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. Assignments and quizzes will count for 20% of the final grade, while exams count for 80% of the final grade. Expect 26 assignments, approximately 19 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 = 10%
- Quizzes = 10%
- Exam 1 (covering assignments 1-7) = 15%
- Exam 2 (covering assignments 8-13) = 15%
- Exam 3 (covering assignments 14-21) = 15%
- Exam 4 (covering assignments 22-26) = 15%
- 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 your name at the top of each page of your work.
- Write the assignment title on the first page of your work.
- For each assigned problem write the problem 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.
- Submit the assignment in Gradescope as a single PDF file, preferably using the Gradescope app.
- All homework assignments will be due by 1:00pm on the assigned due date (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 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 the class time. Quizzes will be scanned and submitted into Gradescope by the end of that day's class meeting.

Exam Format and Policy: Face-to-face examinations will be given on specified days in the calendar below. Exams are to be taken during the class time. No make-up exams will be given. The comprehensive final exam will be given on Monday, May 6 from 10:15am–12:15pm.

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/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
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.

Academic Integrity (Plagiarism and Cheating Policy):

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.

Syllabus Statements: 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/.

COVID Response: 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.

Tentative Course Calendar: College Algebra (MW 11:00)
Spring 2024

Week	Date	Topic	Assignment Due Date
			• Assignments are due by 1:00 pm on the due date. • Quizzes are due by the end of each class meeting.
1	Mon, Jan 15	**MLK Holiday**	
	Wed, Jan 17	Course Introduction Asgmt 0: Factoring Review	
2	Mon, Jan 22	Asgmt 1: Linear Equations Asgmt 2: Rational Equations	Asgmt 0 Quiz 1
	Wed, Jan 24	Asgmt 3: Linear Applications	Asgmt 1 and 2 Quiz 2
3	Mon, Jan 29	Asgmt 4: Complex Numbers Asgmt 5: Quadratic Equations	Asgmt 3 Quiz 3
	Wed, Jan 31	Asgmt 5: Quadratic Equations (continued)	Asgmt 4 Quiz 4
4	Mon, Feb 5	Asgmt 6: Other Types of Equations	Asgmt 5 Quiz 5
	Wed, Feb 7	Asgmt 7: Linear and Absolute Value Inequalities	Asgmt 6 Quiz 6
5	Mon, Feb 12	**Exam 1**	Asgmt 7 Exam 1
	Wed, Feb 14	Asgmt 8: Functions and Their Graphs	
6	Mon, Feb 19	Asgmt 9: Linear Functions and Slope	Asgmt 8 Quiz 7
	Wed, Feb 21	Asgmt 10: Distance, Midpoint, and Circles	Asgmt 9 Quiz 7
7	Mon, Feb 26	Asgmt 11: Combination and Composition of Functions Asgmt 12: Inverse Functions	Asgmt 10 Quiz 8
	Wed, Feb 28	Asgmt 13: Quadratic Functions and Synthetic Division	Asgmt 11 and 12 Quiz 9
8	Mon, Mar 4	**Exam 2**	Asgmt 13 Exam 2
	Wed, Mar 6	Asgmt 14: Roots of Polynomials	
Spring Break (March 11-15)			
9	Mon, Mar 18	Asgmt 15: Polynomial Functions and Their Graphs	Asgmt 14 Quiz 10
	Wed, Mar 20	Asgmt 16: Rational Functions and Their Graphs	Asgmt 15 Quiz 11
10	Mon, Mar 25	Asgmt 17: Polynomial and Rational Inequalities	Asgmt 16 Quiz 12

	Wed, Mar 27	Asgmt 18: Exponential and Logarithmic Functions	Asgmt 17 Quiz 13
	Fri, March 29	**Easter Break**	
11	Mon, Apr 1	Asgmt 19: Properties of Logarithms	Asgmt 18 Quiz 14
	Wed, Apr 3	Asgmt 20: Exponential Equations	Asgmt 19 Quiz 15
12	Mon, Apr 8	Asgmt 21: Logarithmic Equations	Asgmt 20 Quiz 16
	Wed, Apr 10	**Exam 3**	Asgmt 21 Exam 3
	Fri, Apr 12	**Online Registration opens for Spring Interim, Summer 2024 terms, and Fall 2024 terms at 8:00 a.m.**	
13	Mon, Apr 15	Asgmt 22: 2x2 and 3x3 Systems of Equations	
	Wed, Apr 17	Asgmt 23: Matrix Solutions to Systems	Asgmt 22 Quiz 17
14	Mon, Apr 22	Asgmt 25: Nonlinear Systems and Systems of Inequalities	Asgmt 23 Quiz 18
	Wed, Apr 24	Asgmt 26: Determinant's and Cramer's Rule	Asgmt 25 Quiz 19
	Thur, Apr 25	**Last day to drop a Spring course**	
15	Mon, Apr 29	**Exam 4**	Asgmt 26 Exam 4
	Wed, May 1	Review for Final Exam	
16		**Final Exam**	