

- These exams will be timed and must be completed during class time. When time expires, all questions not completed will be counted wrong, and you will not be allowed to finish the exam. If you are absent on the day an exam is given, you will receive a zero for the exam and you will not be allowed to take the exam at a later time. **There are no make-up exams.**

Common Course Syllabus – Math Department Policies

Department: Mathematics, Engineering, and Computer Science **Discipline:** Mathematics
Course Number: MATH 0314 and Math 1314 **Course Title:** College Algebra with Support Course

Available Formats: conventional, hybrid, and internet. This section is a hybrid course with face-to-face meetings on Mondays and Wednesdays and online coursework on Tuesdays and Thursdays each week.

Campuses: Levelland, Plainview Center, Lubbock Downtown Center.

Course Description: Math 0314 is to be taken concurrently with MATH 1314. Background topics which are necessary for a student to successfully complete MATH 1314 will be covered, with an emphasis on fractions, factoring polynomials, functions, exponents, and operating with radical and rational expressions. Math 1314 is an 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 340 on the TSIA, or a successful completion with a grade of 'C' or better in MATH 0315, or a successful completion of NCBM-0105.

0314 Credit: 3 Lecture: 3 Lab: 1

1314 Credit: 3 Lecture: 3 Lab: 1

This course partially satisfies a Core Curriculum Requirement:

0314 – None

1314 - 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 cannot receive an X, the instructor will assign an F.

South Plains College Policies

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.

South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here:

<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>.

*****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 0314 1314 – C604 – FALL 2024

Tentative Course Calendar

Any changes will be announced in class and posted in Blackboard.

Week	Dates	Topics
1	Aug 26	Introduction, Tips for success in math courses Integers and Exponents
	Aug 28	Polynomials and Combining Functions
2	Sep 2	Labor Day Holiday
	Sep 4	Time Management Linear Equations without Fractions
3	Sep 9	Overcoming Math Anxiety Linear Equations with Fractions
	Sep 11	Factoring
4	Sep 16	Preparing for a Math Test and Math Test-Taking Strategies Summary of Factoring and Solving Equations by Factoring
	Sep 18	Rational Expressions
5	Sep 23	Rational Equations
	Sep 25	Exam 1
6	Sep 30	Using Available Resources Roots and Complex Numbers and Simplifying Radical Expressions
	Oct 2	Radical Equations
7	Oct 7	After Math Test Behavior Quadratic Equations
	Oct 9	Polynomial Equations
8	Oct 14	How to Read and Use Class Materials Systems of Equations – 2 variables and Cramer’s Rule
	Oct 16	Systems of Equations - Matrices
9	Oct 21	Note-taking for Math Exponential Equations
	Oct 23	Properties of Logs
10	Oct 28	Log Equations
	Oct 30	Exam 2
11	Nov 4	Composition of Functions
	Nov 6	Evaluating Exponential Functions
12	Nov 11	Piecewise Functions, Inverse Functions
	Nov 13	Inequalities – Linear, Polynomial, and Rational Graphing Linear Equations
13	Nov 18	Preparing for a Math Final Exam Graphing Quadratic Functions
	Nov 20	Graphing Polynomial Functions
14	Nov 25	Graphing Rational Functions
	Nov 27	Thanksgiving Holiday
15	Dec 2	Graphing Exponential and Log Functions Symmetry, Increasing, Decreasing, Constant, and Transformations
	Dec 4	Exam 3
16	Dec 9	Final Exam

