South Plains College
Mathematics, Engineering, & Computer Science Department
College Algebra w/ Corequisite Support – MATH 0314/1314.C002
Monday, Tuesday, Wednesday, & Thursday: 11:00am – 12:45pm
Course Syllabus - Spring 2026

Instructor: Jake Wyatt
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Office Hours (Levelland Campus): M & W: 3-5pm, T & R: 1:30-3pm, and by appointment.
Office Hours (Lubbock Campus): F: 12-1pm, and by appointment.

Course Description: MATH 0314/1314 is the study and mathematical application of functions and their graphs. Corequisite material is provided during the first five weeks of the course.

Credit: 6 Semester Credit Hours

Prerequisites: TSI eligible.

Textbooks: *Elementary & Intermediate Algebra 4th ed.* by Sullivan, Struve, & Mazzarella (Optional)
College Algebra 5th ed. by Robert Blitzer (Provided)

Attendance: Attendance and effort are both important for success in this course. Class attendance may be taken at any time during the class period, so please do not arrive late or leave early.

Class Format:
11:00 – 11:30am Questions from Students
11:30 – 12:15pm Lecture
12:15 – 12:20pm Break
12:20 – 12:45pm Lab Assignment

Lab Assignments: Lab assignments (labs) are short worksheets to be completed in class. The lab consists of problems related to the lecture. If the lab cannot be completed by 12:45, then an extension without penalty will be granted. However, if a student leaves early before completing the lab, no extension will be granted and he or she must turn in the incomplete lab before leaving. Make-up labs are only permitted in the case of an excused absence. Groupwork is encouraged during labs.

Homework: Homework will be assigned at each class meeting but will not be graded until exam day.
Format for all homework assignments:
1. Copy the given problem on your own paper.
2. Solve, showing all the necessary work. Use graph paper when graphing.
3. Clearly mark your answer.
4. Check your answer with the answer key to make certain you are practicing correctly.

Notebook: You are required to maintain a 3-ring binder with four dividers, labeled: Notes, Homework, Lab Assignments, & Exams. Your notebook will be collected on exam days and will be graded for completeness and neatness.

Grading:

Notebook:	10%
Lab Assignments:	10%
4 Exams:	15% each
Final Exam:	20%

Note: Your lowest exam score will be replaced with your final exam score, provided the latter is higher.
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%).

Calculators: A non-graphing calculator may be used if needed. The TI-30XIIS is a good option. Cell phones are prohibited.

Supplementary Information: The course syllabus, schedule, and grades can be accessed through Blackboard, the online course management system for this course. Please email questions regarding Blackboard support to blackboard@southplainscollege.edu. For information regarding official South Plains College statements about diversity, disabilities, non-discrimination, Title V Pregnancy & Parenting Accommodations, and Campus Concealed Carry, please visit: https://www.southplainscollege.edu/syllabusstatements/.

College Algebra w/ Corequisite Support, Course Schedule – Spring 2026
MATH 0314/1314.C002 (MTWR 11:00am – 12:45pm)

Topics & Assignments from:
Elementary & Intermediate Algebra (4th ed.) by Sullivan, Struve, & Mazzarella
& *College Algebra (5th ed.)* by Robert Blitzer

Week	Date	Topic	Homework Assignment #
1	Jan 12 – M	2.1 (EIA) – Linear Equations Part 1 2.2 (EIA) – Linear Equations Part 2	Assignment 1
	Jan 13 – T	2.3 (EIA) – Solving Linear Equations w/ Fractions & Decimals 2.4 (EIA) – Evaluating Formulas & Solving for a Variable	Assignment 2
	Jan 14 – W	2.8 (EIA) – Solving Linear Inequalities in One Variable	Assignment 3
	Jan 15 – R	3.4 (EIA) – Slope-Intercept Form of a Line 3.5 (EIA) – Point-Slope Form of a Line 3.6 (EIA) – Parallel & Perpendicular Lines	Assignment 4
2	Jan 19 – M	*Martin Luther King Jr. Holiday – no class*	
	Jan 20 – T	6.1 (EIA) – Greatest Common Factor & Factoring by Grouping 6.2 (EIA) – Factoring Trinomials Part 1	Assignment 5
	Jan 21 – W	6.3 (EIA) – Factoring Trinomials Part 2 6.4 (EIA) – Factoring Special Products	Assignment 6
	Jan 22 – R	6.5 (EIA) – Summary of Factoring Techniques 6.6 (EIA) – Solving Polynomial Equations by Factoring	Assignment 7
3	Jan 26 – M	7.1 (EIA) – Simplifying Rational Expressions 7.2 (EIA) – Multiplying & Dividing Rational Expressions	Assignment 8
	Jan 27 – T	7.3 (EIA) – Adding & Subtracting Rational Expressions Part 1 7.4 (EIA) – Finding the LCD & Equivalent Rational Expressions 7.5 (EIA) – Adding & Subtracting Rational Expressions Part 2	Assignment 9
	Jan 28 – W	7.7 (EIA) – Rational Equations	Assignment 10
	Jan 29 – R	Review for Exam 1	
4	Feb 2 – M	**Exam 1 (15%)**	
	Feb 3 – T	8.3 (EIA) – An Introduction to Functions 8.4 (EIA) – Functions & Their Graphs	Assignment 11
	Feb 4 – W	8.7 (EIA) – Absolute Value Equations & Inequalities	Assignment 12
	Feb 5 – R	9.1 (EIA) – Square Roots	Assignment 13
5	Feb 9 – M	9.2 (EIA) – nth Roots & Rational Roots 9.3 (EIA) – Simplifying Expressions Using the Laws of Exponents	Assignment 14
	Feb 10 – T	9.4 (EIA) – Simplifying Radical Expressions 9.5 (EIA) – Adding, Subtracting, & Multiplying Radical Expressions	Assignment 15
	Feb 11 – W	9.6 (EIA) – Rationalizing Radical Expressions 9.7 (EIA) – Functions Involving Radicals	Assignment 16
	Feb 12 – R	9.9 (EIA) – The Complex Number System	Assignment 17
6	Feb 16 – M	2.1 (CA) – Basic Functions & Their Graphs	18: 1-37 odd,55-91 every other odd
	Feb 17 – T	2.2 (CA) – More on Functions & Their Graphs	19: 1-13 odd, 17-41 odd, 55, 59, 61
	Feb 18 – W	2.3 (CA) – Linear Functions & Slope	20: 1-69 every other odd
	Feb 19 – R	Review for Exam 2	
7	Feb 23 – M	**Exam 2 (15%)**	
	Feb 24 – T	1.5 (CA) – Quadratic Equations – Part 1	21: 1-61 every other odd
	Feb 25– W	1.5 (CA) – Quadratic Equations – Part 2	22: 65-105 odd
	Feb 26 – R	2.8 (CA) – Distance and Midpoint Formulas	23: 1-29 odd

8	Mar 2 – M	2.8 (CA) – Circles	24: 31-49 odd, 53-63 odd
	Mar 3 – T	3.1 (CA) – Quadratic Functions	25: 1-8 all, 9-43 odd
	Mar 4 – W	3.2 (CA) – Polynomial Functions & Their Graphs	26: 1-61 every other odd
	Mar 5 – R	3.3 (CA) – Dividing Polynomials; Remainer & Factor Theorems	27: 17-45 odd
9	Mar 9 – M	3.4 (CA) – Zeros of Polynomial Functions	28: 39-51 odd
	Mar 10 – T	3.5 (CA) – Rational Functions & Their Graphs Part 1	29: 1-45 every other odd
	Mar 11 – W	3.5 (CA) – Rational Functions & Their Graphs Part 2	30: 49-69 odd
	Mar 12 – R	4.1 (CA) – Exponential Functions	31: 1-17 odd, 19-24 all, 25-55 odd
SB	Mar 16-20	*Spring Break – no classes this week*	
10	Mar 23 – M	4.2 (CA) – Logarithmic Functions	32: 1-41 odd, 81-99 odd
	Mar 24 – T	4.3 (CA) – Properties of Logarithms	33: 1-77 every other odd
	Mar 25 – W	4.4 (CA) – Exponential & Logarithmic Equations	34: 1-89 every other odd
	Mar 26 – R	Review for Exam 3	
11	Mar 30 – M	**Exam 3 (15%)**	
	Mar 31 – T	5.1 (CA) – Systems of Linear Equations in Two Variables	35: 5-41 odd
	Apr 1 – W	5.2 (CA) – Systems of Linear Equations in Three Variables	36: 5-15 odd
	Apr 2 – R	5.3 (CA) – Partial Fractions	37: 1, 3, 9, 11, 17, 25, 27
	Apr 3 - F	*Easter Break – no office hours*	
12	Apr 6 – M	5.4 (CA) – Systems of Nonlinear Equations in Two Variables	38: 1, 5, 7, 9, 17, 19, 23, 25, 31, 35
	Apr 7 – T	5.5 (CA) – Systems of Inequalities	39: 1-59 every other odd
	Apr 8 – W	6.1 (CA) – Matrix Solutions to Linear Systems	40: 1-11 odd, 21-33 odd
	Apr 9 – R	6.2 (CA) – Inconsistent & Dependent Systems & Applications	41: 1-23 odd
	Apr 10 – F	*Registration Opens for Summer & Fall*	
13	Apr 13 – M	6.3 (CA) – Matrix Operations & Applications	42: 1-13 odd, 17-23 odd,27-31 odd
	Apr 14 – T	6.4 (CA) – Multiplicative Inverse of Matrices & Matrix Equations	43: 1-11 odd, 37-41 odd
	Apr 15 – W	6.5 (CA) – Determinants and Cramer's Rule	44: 1-39 odd
	Apr 16 – R	Review for Exam 4	
14	Apr 20 – M	**Exam 4 (15%)**	
	Apr 21 – T	7.1 (CA) – The Ellipse	45: 1-29 every other odd
	Apr 22 – W	*No Class – Instructor at NASCC: The Steel Conference*	
	Apr 23 – R	*No Class – Instructor at NASCC: The Steel Conference*	
	Apr 24 - F	*No Office Hours – Instructor at NASCC: The Steel Conference*	
15	Apr 27 – M	7.2 (CA) – The Hyperbola	46: 1-29 every other odd
	Apr 28– T	7.3 (CA) – The Parabola	47: 1-33 every other odd
	Apr 29 – W	Review for Final Exam	
	Apr 30 – R	Review for Final Exam – *Last Day to Drop a Course*	
16	May 4 – M 10:15-12:15	**Final Exam (20%)**	

Legend: EIA = Elementary & Intermediate Algebra Textbook
CA = College Algebra Textbook

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