South Plains College
Common Course Syllabus: MATH 1314
Revised January 2021

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1314

Course Title: College Algebra

Available Formats: conventional, internet, and ITV

Campuses: Levelland, Reese, Plainview, Lubbock 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 TSIA, TSI-exempt status, or a successful completion with a grade of 'C' or better in MATH 0320.

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 Policy: Attendance and effort are the most important activities for success in this course. Records of your attendance are maintained throughout the semester. Five (5) absences, ***for any reason***, are allotted to the student for the semester. Tardies count as one-half (1/2) of an absence. Tardies will be applied for consistently being late to class, as deemed by the instructor and leaving class early. If this number is exceeded, the instructor has the right to drop you with a grade of F or an X, depending on their discretion.

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.

COVID Syllabus Statement: It is the policy of South Plains College for the Spring 2021 semester that as a condition of on-campus enrollment, all students are required to engage in safe behaviors to avoid the spread of COVID-19 in the SPC community. Such behaviors specifically include the requirement that all students properly wear CDC-compliant face coverings while in SPC buildings including in classrooms, labs, hallways, and restrooms. Failure to comply with this policy may result in dismissal from the current class session. If the student refuses to leave the classroom or lab after being dismissed, the student may be referred to the Dean of Students on the Levelland campus or the Dean/Director of external centers for Student Code of Conduct Violation. Students who believe they have been exposed or may be COVID-19 positive, must contact Health Services, DeEtte Edens, BSN, RN at (806) 716-2376 or dedens@southplainscollege.edu. Student Code of Conduct Policy: Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. 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. Student Code of Conduct Policy: Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. 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.

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

Diversity Statement: In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

Disability Statement: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

Nondiscrimination Policy: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the

non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Title IX Pregnancy Accommodations Statement: If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or email cgilster@southplainscollege.edu for assistance.

Campus Concealed Carry: Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: http://www.southplainscollege.edu/campuscarry.php
Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

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.

College Algebra – Spring 2021
MATH 1314.006 M/W 2:30-4:15 MATH 1314.007 T/R 7:50-9:20 MATH 1314.010 T/R 1:00-2:45

Instructor: Karol Albus:
Office M110 **Email:** kalbus@southplainscollege.edu (preferred method of contact) **Phone:** (806)-716-2543
Office hours: As listed or by appointment.

Monday	Tuesday	Wednesday	Thursday	Friday
9:30-10:00, 1:00-2:30 (Levelland Office M110)	9:30-12:30 (Zoom) 2::45-3:45 (Levelland Office M110)	9:30-10:00 (Zoom) 1:00-2:30 (Levelland Office M110)	No office hours	9:00-12:00 (Levelland Office M110) 1/22, 1/29, 2/5, 2/19, 2/26, 3/26, 4/23

Disclaimer: The instructor reserves the right to alter any class policies/dates as deemed necessary by the instructor, and will announce any changes **in class**.

Use of Student Email: The College provides a free, official email account to all students to ensure efficient and secure communications between you and the College. Students will be required to use their college-issued email address to communicate with their instructors and all other college personnel, so it is easy to distinguish a student's email from spam. The College expects that students will utilize their college email addresses to send and receive communications with college personnel and will read email on a frequent and consistent basis.

Course Supplies:
- **NOTE:** There is NO book required for this course. All materials are available on Blackboard.
- **Requir**ed: Reliable Internet Access
- **Required:** Ability to print documents
- **Required:** Scientific Calculator. **Suggested TI-30XIIS**. They are inexpensive and user friendly.
- Graphing calculators are **not allowed**.
- **Required:** Large 3-ring binder, dividers, notebook paper, **graph paper (available to print from blackboard)**, hole punch, pencils, and erasers.
- **Printed Notes:** No book is required, but notes will be posted on Blackboard and **you will be expected to print them and complete them in class**. They will also be a requirement in the binder check.
- **Optional:** The adopted textbook would only be used for a reference. We will not use it for coursework.
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Homework/Quizzes/ Binder Checks:
- Homework will be assigned at each class. Work the problems early enough to seek help if needed.
- Notes/Homework are due as one pdf that you will submit via Blackboard before the beginning of the next class. **Late homework will not be accepted. Absence = 0.**
- Quizzes will be given most days. **Make-up quizzes will not be given. Absence = 0.**
- At the end of the semester the lowest 2 grades (homework/quiz/binder) will be dropped.
- All students will keep a binder which will be used as a reference and study guide.
- The binder will be graded by the instructor during the semester.

Exams:
- 4 Unit Exams
- **Final Exam is comprehensive and departmental. There are no exemptions for the final.**
- If you are going to miss an exam contact your instructor immediately (preferably prior to the exam). Make up exams are very rare and only provided under extreme, documented circumstances.
- Once you begin an exam, you will not be able to leave the classroom until the exam is submitted for grading.

Grading Formula:
Enrollment in this course does not guarantee advancement to the next course level. The final responsibility for learning lies with the student. The final letter grade for this course will be based on the following:

4 Tests 15% each.....60%
Homework/Quizzes/Binder.....20%
Final Exam 20%

Final Grade Determination: A 90-100 B 80-89 C 70-79 D 60-69 F 59 or below

Classroom Etiquette:

- Preparation for class (including printing notes and completing homework) is to be done before (not during) the lecture.
- NO tobacco use of any form is allowed in the classroom.
- Discussion **of course material** among students is encouraged during class when it will not interfere with other students learning or concentrating.
- All electronic communication devices are to be silenced and put away during class.

Resources:

- Blackboard! The course syllabus, notes, lecture videos, homework keys, quiz keys, and reviews will be available on Blackboard.
- Free tutoring is available in M116 on the Levelland campus.
- I am available to help you! Feel free to come by during my office hours or email me at kalbus@southplainscollege.edu.

Withdrawal Policy: As required by Texas Education Code Section 51.907, all new students who enroll in a Texas public institution of higher education for the first time beginning with the 2007 fall semester and thereafter, are **limited to six course drops** throughout their entire undergraduate career. All course drops, including those initiated by students or faculty and any course a transfer student has dropped at another institution, automatically count toward the limit. After six grades of W are received, students must receive grades of A, B, C, D, or F in all courses. There are other exemptions from the six-drop limit and students should consult with a Counselor/Educational Planner before they drop courses to determine these exemptions. Students receiving financial aid must get in touch with the Financial Aid Office before withdrawing from a course. It is the student's responsibility to drop. Excessive absences (5 total) will result in an administrative withdrawal with a Grade of X or F. If you plan to withdraw, please consult with the instructor immediately.

Note: The last day to drop with a grade of W is Thursday, April 29, 2021.

Tentative Course Calendar
MATH 1314.006 M/W 2:30-4:15

Week	Day	Date	Lesson / Tentative Assignment
1	*Mon*	*Jan 18*	*No class – Martin Luther King Holiday*
	Wed	Jan 20	Introduction Preskills Review
2	Mon	Jan 25	Skills Assessment, Assignment 1.1: Linear & Rational Equations
	Wed	Jan 27	Assignment 1.2: Linear Applications
3	Mon	Feb 1	Assignment 1.3: Complex Numbers; Quadratic Equations Part 1
	Wed	Feb 3	Assignment 1.4: Quadratic Equations Part 2, Radical Equations
4	Mon	Feb 8	Assignment 1.5: Other Types of Equations; Linear and Absolute Value Inequalities
	Wed	Feb 10	Unit 1 Review
5	Mon	Feb 15	**Unit 1 Exam (15%), Binder Check**
	Wed	Feb 17	Assignment 2.1: Function Notation and Graphs
6	Mon	Feb 22	Assignment 2.2: Linear Functions and Slope
	Wed	Feb 24	Assignment 2.3: Distance, Midpoint, & Circles, Combinations of Functions, Composite Functions
7	Mon	Mar 1	Assignment 2.4: Inverse Functions, Quadratic Functions
	Wed	Mar 3	Assignment 2.5: Long Division, Synthetic Division
8	Mon	Mar 8	Unit 2 Review
	Wed	Mar 10	**Unit 2 Exam (15%)**
		Mar 15-19	*Spring Break*
9	Mon	Mar 22	Assignment 3.1: Polynomial Functions & Their Graphs, Roots of Polynomials
	Wed	Mar 24	Assignment 3.2: Rational Functions & Their Graphs
10	Mon	Mar 29	Assignment 3.3: Polynomial & Rational Inequalities
	Wed	Mar 31	Assignment 3.4: Exponential Functions; Logarithmic Functions
11	Mon	Apr 5	Assignment 3.5: Properties of Logarithms
	Wed	Apr 7	Assignment 3.6: Exponential & Logarithmic Equations
12	Mon	Apr 12	Unit 3 Review
		Apr 12	*Online Registration opens for Summer and Fall classes*
	Wed	Apr 14	**Unit 3 Exam (15%)**
13	Mon	Apr 19	Assignment 4.1: 2x2 Systems; 3x3 Systems
	Wed	Apr 21	Assignment 4.2: Nonlinear Systems; Graphing Inequalities & Systems of Inequalities, Graphing Nonlinear Systems of Inequalities
14	Mon	Apr 26	Assignment 4.3: Solving Systems of Equations by Gauss Jordan Elimination
	Wed	Apr 28	Assignment 4.4: Solving Systems of Equations by Determinants & Cramer's Rule
	Thurs	*Apr 29*	*Last day to drop a course*
15	Mon	May 3	Unit 4 Review
	Wed	May 5	**Unit 4 Exam (15%)**
16	Mon	May 10	**MATH 1314.006 Final Exam (20%) 1:00-3:00**
	Fri	May 14	Graduation

Tentative Course Calendar
MATH 1314.007 T/R 7:50-9:20 MATH 1314.010 T/R 1:00-2:45

Week	Day	Date	Lesson / Tentative Assignment
1	Tues	Jan 19	Introduction Preskills Review
	Thurs	Jan 21	Skills Assessment, Assignment 1.1: Linear & Rational Equations
2	Tues	Jan 26	Assignment 1.2: Linear Applications
	Thurs	Jan 28	Assignment 1.3: Complex Numbers; Quadratic Equations Part 1
3	Tues	Feb 2	Assignment 1.4: Quadratic Equations Part 2, Radical Equations
	Thurs	Feb 4	Assignment 1.5: Other Types of Equations; Linear and Absolute Value Inequalities
4	Tues	Feb 9	Unit 1 Review
	Thurs	Feb 11	**Unit 1 Exam (15%), Binder Check**
5	Tues	Feb 16	Assignment 2.1: Function Notation and Graphs
	Thurs	Feb 18	Assignment 2.2: Linear Functions and Slope
6	Tues	Feb 23	Assignment 2.3: Distance, Midpoint, & Circles, Combinations of Functions, Composite Functions
	Thurs	Feb 25	Assignment 2.4: Inverse Functions, Quadratic Functions
7	Tues	Mar 2	Assignment 2.5: Long Division, Synthetic Division
	Thurs	Mar 4	Unit 2 Review
8	Tues	Mar 9	**Unit 2 Exam (15%)**
	Thurs	Mar 11	Assignment 3.1: Polynomial Functions & Their Graphs, Roots of Polynomials
		Mar 15-19	*Spring Break*
9	Tues	Mar 23	Assignment 3.2: Rational Functions & Their Graphs
	Thurs	Mar 25	Assignment 3.3: Polynomial & Rational Inequalities
10	Tues	Mar 30	Assignment 3.4: Exponential Functions; Logarithmic Functions
	Thurs	Apr 1	Assignment 3.5: Properties of Logarithms
11	Tues	Apr 6	Assignment 3.6: Exponential & Logarithmic Equations
	Thurs	Apr 8	Unit 3 Review
		Apr 12	*Online Registration opens for Summer and Fall classes*
12	Tues	Apr 13	**Unit 3 Exam (15%)**
	Thurs	Apr 15	Assignment 4.1: 2x2 Systems; 3x3 Systems
13	Tues	Apr 20	Assignment 4.2: Nonlinear Systems; Graphing Inequalities & Systems of Inequalities, Graphing Nonlinear Systems of Inequalities
	Thurs	Apr 22	Assignment 4.3: Solving Systems of Equations by Gauss Jordan Elimination
14	Tues	Apr 27	Assignment 4.4: Solving Systems of Equations by Determinants & Cramer's Rule
	Thurs	Apr 29	Unit 4 Review
	Thurs	*Apr 29*	*Last day to drop a course*
15	Tues	May 4	**Unit 4 Exam (15%)**
	Thurs	May 6	Comprehensive Review
16	Tues	May 11	**MATH 1314.007 Final Exam (25%) 8:00-10:00** **MATH 1314.010 Final Exam (25%) 1:00-3:00**
	Fri	May 14	Graduation