

South Plains College
Common Course Syllabus: MATH 1314
Revised December 2019

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*, Blitzer. 2014. Pearson. (SEISD owns these textbooks and students will check them out instead of purchasing.)

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.

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 806716-2360.

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](mailto: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.

Course Evaluation: In accordance with the Springlake-Earth ISD grading policy, there will be at least two tests each six weeks. Homework will be assigned frequently. Specific assignments are listed at the end of this syllabus.

- Tests: 70% of the six weeks grade
- Daily work (homework, quizzes, notebook): 30% of the six weeks grade
- Semester exams (no exemptions): 20% of the semester grade

Dual Credit Grading Scale:

A 90 – 100

B 80 – 89

C 70 – 79

D 60 – 69

F 59 or below

Exceptions:

0 or 1 absence in the second semester, as defined by the SEISD attendance policy

A 88 – 100

B 78 – 87

C 68 – 77

D 60 – 67

F 59 or below

2 or 3 absences in the second semester, as defined by the SEISD attendance policy

A 89 – 100

B 79 – 88

C 69 – 78

D 60 – 68

F 59 or below

Supplies: notebook, notebook paper, pens, pencils, highlighters

College Algebra, 6th Edition, by Blitzer

Section	Pages	Assignment
P.1	16	Concept & Vocab. Check #1 - 19
	17	Exercises 5 - 125 mult. of 5
P.2	32	Concept & Vocab. Check #1 - 10
	33	Exercises 5 - 110 mult. of 5
P.3	48	Concept & Vocab. Check #1 - 14
	48	Exercises 5 - 115 mult. of 5 (#115 is to be done collaboratively)
P.4	60	Concept & Vocab. Check #1 - 14
	61	Exercises 5 - 90 mult. of 5, 91, 92
P.5	74	Concept & Vocab. Check #1 - 8
	74	Exercises 5 - 110 mult. of 5
P.6	85-86	Concept & Vocab. Check #1 - 10
	86	Exercises 3 - 81 mult. of 3
1.1	101-102	Concept & Vocab. Check #1 - 8
	102	Exercises 3 - 27 mult. of 3, 41 - 50, 55 - 60, 79 - 86
1.2	117-118	Concept & Vocab. Check #1 - 11
	118	Exercises 3 - 48 mult. of 3
1.3	132	Concept & Vocab. Check #1 - 7

	132	Exercises 2, 7, 9, 25, 43 - 46, 50, 55, 60, 63, 66, 69, 72, 74
1.4	142	Concept & Vocab. Check #1 - 8
	142	Exercises 3 - 48 mult. of 3, 55, 56, 57
1.5	160	Concept & Vocab. Check #1 - 22
	160	Exercises 3 - 33 mult. of 3, 48, 51, 54, 59, 64, 66 - 74 even
1.6	178	Concept & Vocab. Check #1 - 11
	178	Exercises 12 - 27 mult. of 3, 42, 43, 65, 66, 73
1.7	195	Concept & Vocab. Check #1 - 13
	195	Exercises 27 - 48 mult. of 3, 63 - 84, mult. of 3
2.1	223	Concept & Vocab. Check #1 - 12
	224	Exercises 27 - 36 mult. of 3, 56 - 90 even
2.2	237	Concept & Vocab. Check #1 - 9
	238	Exercises 18 - 27 mult. of 3, 33 - 42, mult. of 3, 83 - 90 all
2.3	254	Concept & Vocab. Check #1 - 12
	255	Exercises 3 - 48 mult. of 3, 50, 52, 56, 58, 61, 62, 67, 68
2.4	266	Concept & Vocab. Check #1 - 6
	266	Exercises 6 - 18 even
2.5	282	Concept & Vocab. Check #1 - 7
	252	Exercises 18 - 30 mult. of 3, 54 - 114 mult. of 3

2.6	297	Concept & Vocab. Check #1 - 16
	297	Exercises 2 - 30 even, 32, 52
2.7	308	Concept & Vocab. Check #1 - 4
	309	Exercises 12, 16, 26, 28, 29 - 38 all
2.8	318	Concept & Vocab. Check #1 - 6
	319	Exercises 2, 4, 8, 20, 22, 24, 33, 36, 38, 42, 46, 50, 58

3.1	342-343	Concept & Vocab. Check #1 - 7
3.1	343	Exercises 17, 20, 27, 30, 33, 36, 57, 58
3.2	360	Concept & Vocab. Check #1 - 13
	360	Exercises 27 - 63 mult. of 3
3.3	373	Concept & Vocab. Check #1 - 11
	373	Exercises 18 - 39 mult. of 3
3.4	386	Concept & Vocab. Check #1 - 10
	386	Exercises 9 - 24 mult. of 3
3.5	405-406	Concept & Vocab. Check #1 - 9
	406	Exercises 21 - 36 mult. of 3, 49, 52, 56, 59, 64, 71
3.7	430	Concept & Vocab. Check #1 - 7
	430	Exercises 3 - 33 mult. of 3

4.1	451	Concept & Vocab. Check #1 - 5
	451	Exercises 1 - 9 odd, 12, 54, 56
4.2	465	Concept & Vocab. Check #1 - 15
	465	Exercises 2 - 20 even, 33 - 42 mult. of 3
4.3	476	Concept & Vocab. Check #1 - 4
	477	Exercises 3, 8, 15, 20, 22, 24, 28, 32, 34, 36, 44 - 64 even, 72 - 82 even
4.4	489	Concept & Vocab. Check #1 - 11
	489	Exercises 3 - 42 mult. of 3, 51, 54, 57, 65, 68, 72, 73, 76, 81, 90
5.1	526-527	Concept & Vocab. Check #1 - 9
	527	Exercises 8, 28, 32, 34, 38, 40
5.2	537	Concept & Vocab. Check #1 - 3
5.2	537	Exercises 5, 7, 9
5.4	558	Concept & Vocab. Check #1 - 6
	559	Exercises 1, 6, 22, 31, 38
5.5	571	Concept & Vocab. Check #1 - 9
	571	Exercises 4 - 60 mult. of 4
6.1	598-599	Concept & Vocab. Check #1 - 6
	599	Exercises 4, 8, 10, 12, 14, 18, 27, 30

6.2	608-609	Concept & Vocab. Check #1 - 5
	609	Exercises 1, 3, 5
6.3	623-624	Concept & Vocab. Check #1 - 10
	624	Exercises 5, 8, 9 - 42 mult. of 3
6.5	652	Concept & Vocab. Check #1 - 5
	652	Exercises 1, 3, 15, 18, 27, 33, 36, 39
8.1	714	Concept & Vocab. Check #1 - 8
	714	Exercises 3 - 60 mult. of 3
8.2	724	Concept & Vocab. Check #1 - 5
	724	Exercises 3 - 57 mult. of 3
8.3	739	Concept & Vocab. Check #1 - 10
	739	Exercises 3 - 54 mult. of 3
8.5	757	Concept & Vocab. Check #1 - 7