

Math 0314 1314 - College Algebra with Support Course - Spring 2024

Revised August 2021

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.

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.**

Section 603

Instructor Information: Jacqueline Fowler B022 (LBK Downtown Center - Basement)
806-716-4640 jfowler@southplainscollege.edu

Office Hours: M/W: 12:30 – 1:00 pm, 2:45 – 5:30 pm F: 8:00 – 9:30 am

Required Materials:

- Notebook paper, pencils, erasers
- Scientific Calculator (Graphing calculators and cell phones are not allowed at any time.)

Blackboard: Blackboard is an online course management system that SPC uses for course information. All course materials can be accessed through Blackboard. For questions regarding Blackboard support call 806-716-2180 or email blackboard@southplainscollege.edu.

Communication: All emails need to be sent through your SPC email account to my SPC email account. Do **not** use your personal email. I will respond to all emails within 36 hours except on weekends. Emails sent to me after 10:00 am on Friday may not receive a response until Monday morning. Be professional in your messages. Do **not** use all caps or text language. **Include your name and class on every email.**

Dropping the class: You may submit a drop form online ([online drop form](#)) or visit the Student Services Office. **If someone other than you logs into your Blackboard account, you WILL be dropped from this class immediately and receive an X.**

**Professionalism, respect, and courtesy are required at all times. Confrontational behavior will NOT be tolerated, and you will be dropped from this course immediately to receive an F or X at my discretion.

Grading Formula: The final letter grade for this course will be based on the following:

- Participation.....15%
- Unit Exams.....70%
- Comprehensive Final Exam.....15%

Final Grade Determination: A: 90 – 100, B: 80 – 89, C: 70 – 79, D: 60 – 69, F: 0 – 59

Tutoring: You have access to free tutoring through SPC. Click on the tutoring link in Blackboard for more information. If you visit with a tutor, please share with them the work shown in my videos, so they can help you with the correct steps.

Lesson Videos: To help you with the lessons, there are videos in Blackboard. You need to watch the videos and fill in the notes to learn the material. Your work on homework and quizzes **MUST** follow the work in the videos created by me. If your work does not follow the work in the videos, you will not receive credit.

Homework: In Blackboard, you will find homework for all sections covered in the course. Homework is for practice only, but will prepare you for quizzes and exams.

Exams: There will be 4 unit exams and a comprehensive Final Exam. Exams will be given on the date listed in the outline. The Final Exam will be comprehensive. If you are absent on the day an exam is given, you will receive a zero on the exam. There are no make-up exams. The Final Exam will be used to replace the lowest unit exam.

Tentative Schedule
Changes will be announced in class and posted in Blackboard.

Week	Monday	Wednesday
1	Jan 15 MLK Day	Jan 17 1.1, 1.2, 1.3, 1.4
2	Jan 22 2.1, 2.2	Jan 24 2.3, 2.4
3	Jan 29 3.1, 3.2	Jan 31 3.3, 3.4
4	Feb 5 3.5	Feb 7 Exam 1
5	Feb 12 4.1, 4.2	Feb 14 4.3, 4.4
6	Feb 19 4.5	Feb 21 5.1, 5.2
7	Feb 26 5.3, 5.4	Feb 28 Exam 2
8	Mar 4 6.1, 6.2	Mar 6 6.3
9	Mar 11 - 13 Spring Break	
10	Mar 18 7.1	Mar 20 7.2
11	Mar 25 7.3	Mar 27 7.4
12	Apr 1 7.5	Apr 3 Exam 3
13	Apr 8 8.1	Apr 10 8.2
14	Apr 15 8.3	Apr 17 8.4
15	Apr 22 9.1, 9.3	Apr 24 9.4
16	Apr 29 Exam 4	May 1 Review
17	May 6 Final Exam: 1:00 - 3:00 pm	Last Day to Drop a class: April 25