

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

Jacqueline Fowler

I. Department Policies (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

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.

II. South Plains College Policies

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.**

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. You will not receive partial credit on your exams if I cannot understand your work

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

Exams: There will be 4 exams and a comprehensive Final Exam. Exams will be given on the date listed in the outline. 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 may be used to replace the lowest exam grade. You may take your exam on campus or through a zoom meeting. Since seats will be limited at each exam session, you will be required to sign up for an exam session.

- Campus exams will be located at the Lubbock Downtown Center in the basement. Exam room location will be given prior to each exam.
- For exams through zoom meetings, you will be required to print and complete your exam while on camera. Audio and video are required to be on at all times which means you must find a quiet location to take your exam since the other students attending will be able to see and hear you. Once finished, you will scan and email your exam to me and wait for confirmation of receipt from me before you leave the exam meeting. If you leave without confirmation, and I do not receive your work, you will receive a zero on the exam.
 - Requirements for sending your work to me:
 - The file must be an attachment.
 - I will not accept shared files.
 - The file must be one PDF file with multiple pages.
 - I will not accept any file that is not a PDF -- no pictures!!
 - The file must be sent from your SPC email.
 - I will not accept any work from personal emails

All assignments are due by noon on the date listed in this outline.

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1		Jan 16 1.1, 1.2	Jan 17 1.3	Jan 18 1.4	Jan 19 2.1	Jan 20 2.2
2	Jan 22 2.3	Jan 23 2.3	Jan 24 2.4	Jan 25 2.4	Jan 26 3.1	Jan 27 3.1
3	Jan 29 3.2	Jan 30 3.2	Jan 31 3.3	Feb 1 3.3	Feb 2 3.4	Feb 3 3.4
4	Feb 5 3.5	Feb 6 3.5	Feb 7 1,2,3 notes due	Feb 8 Review	Feb 9 Exam 1 due	Feb 10
5	Feb 12 4.1	Feb 13 4.1	Feb 14 4.2	Feb 15 4.2	Feb 16 4.3	Feb 17 4.3
6	Feb 19 4.4	Feb 20 4.4	Feb 21 4.5	Feb 22 4.5	Feb 23 5.1	Feb 24 5.1
7	Feb 26 5.2	Feb 27 5.2	Feb 28 5.3	Feb 29 5.3	Mar 1 5.4	Mar 2 5.4
8	Mar 4 4 & 5 notes due	Mar 5 Review	Mar 6 Exam 2 due	Mar 7 6.1	Mar 8 6.1	Mar 9
9	Mar 18 6.2	Mar 19 6.2	Mar 20 6.3	Mar 21 6.3	Mar 22	Mar 23
10	Mar 25 7.1	Mar 26 7.1	Mar 27 7.2	Mar 28 7.2	Mar 29 7.3	Mar 30 7.3
11	Apr 1 7.4	Apr 2 7.4	Apr 3 7.5	Apr 4 7.5	Apr 5 Review	Apr 6
12	Apr 8 6 & 7 notes due	Apr 9 Review	Apr 10 Exam 3 due	Apr 11 8.1	Apr 12 8.2	Apr 13 8.2
13	Apr 15 8.3	Apr 16 8.3	Apr 17 8.4	Apr 18 8.4	Apr 19 9.1	Apr 20 9.1
14	Apr 22 9.2	Apr 23 9.3	Apr 24 9.4	Apr 25 9.4	Apr 26 8 & 9 notes due	Apr 27 Review
15	Apr 29 Exam 4 due	Apr 30 Review	May 1 Review	May 2 Review	May 3 Review	May 4 Review
16	May 6 Final Exam due				Last Day to Drop a class: Apr 29	