

College Algebra (MATH 1314)

as of: 08/22/26

CREDIT

3 Semester Credit Hours (3 hours lecture, 0 Lab hours lab)

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

TSI Complete for Math



**LAMAR INSTITUTE
OF TECHNOLOGY**

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.

COURSE OBJECTIVES

Upon completion of this course, 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.

CORE OBJECTIVES MEASURED

1. **Critical Thinking Skills:** To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2. **Communication Skills:** To include effective development, interpretation and expression of ideas through written, oral, and visual communication.
3. **Empirical and Quantitative Skills:** To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

INSTRUCTOR CONTACT INFORMATION

Instructor: Jamie Barron

Email: *****Communication for the course will be through the Messages tab on Blackboard*****

Only email the instructor if you do NOT have access to Blackboard:

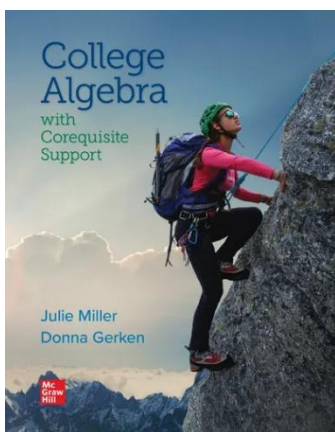
jhbarron@lit.edu

Office Phone: Note that I do not have access to an office phone line.

Contact me through the Messages tab in Blackboard.

Office Location/ Hours: Virtual - contact me through the Messages tab on Blackboard

REQUIRED TEXTBOOK AND MATERIALS



ALEKS College Algebra. Physical textbook not required. Online **subscription to ALEKS is required** and comes with eBook. This is included in the ELE bundle, or you may purchase subscriptions directly from ALEKS.

If opted out Aleks subscriptions vary, 6-month \$99.95

Materials:

Paper, pencils, and a calculator, access to a computer with internet access.

ATTENDANCE POLICY

Attendance is required, online students should login and work on assignments 2-3 times per week, minimum.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified date as listed in the College Calendar on the [Student Success](#) web page. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE CALENDAR – MATH 1314

Section	Topic	Due date:
3.3	Complex Numbers	WEDNESDAY 9/2/26 at 11:59pm
3.6	Solving Quadratic Equations	
4.3	Rational Equations	WEDNESDAY 9/9/26 at 11:59pm
4.5	Rational Exponents	
4.6	Radical Equations	WEDNESDAY 9/16/26 at 11:59pm
4.7	Equations in Quadratic Form	
5.1	Rectangular Coordinate System	
5.3	Functions and Relations	WEDNESDAY 9/23/26 at 11:59pm
	Module 1 Test	
5.4	Linear Equations in Two Variables	WEDNESDAY 9/30/26 at 11:59pm
6.1	Transformations of Graphs	
6.2	Symmetry and Piecewise Functions	
6.4	Function Composition	WEDNESDAY 10/7/26 at 11:59pm
7.1	Quadratic Functions	
7.2	Polynomial Functions	WEDNESDAY 10/14/26 at 11:59pm
7.3	Polynomial Division	
7.4	Zeros of Polynomials	WEDNESDAY 10/21/26 at 11:59pm
	Module 2 Test	
8.1	Rational Functions	WEDNESDAY 10/28/26 at 11:59pm
8.2	Graphs of Rational Functions	
9.1	Inverse Functions	WEDNESDAY 11/4/26 at 11:59pm
9.2	Exponential Functions	
9.4	Properties of Logarithms	WEDNESDAY 11/11/26 at 11:59pm
9.5	Exponential Equations and Applications	
9.6	Logarithmic Equations and Applications	WEDNESDAY 11/18/26 at 11:59pm
11.1	Systems of Linear Equations Using Matrices	
	Module 3 Test	WEDNESDAY 12/2/26 at 11:59pm
	Final Review	
	Final/Core Assessment	WEDNESDAY 12/9/26 at 11:59pm

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Test 60%
- Assignments 20%
- Final Exam 20%
 - o Core Assessment (20% of Final Exam)

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the [LIT Online Experience](#) page. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

MATH AI POLICY

- No AI tools, apps, software, etc. are to be used on any work that is scored, graded, assessed, etc.
 - This includes all homework, exams, tests, projects, assessments, quizzes, discussions, etc.
- Failure to follow these guidelines (as deemed by the instructor) may be considered academic dishonesty and will be managed by instructor discretion or for exams, the Math testing policy.

MATH TESTING POLICY

- All online Math courses will use Respondus Lockdown Browser and Monitor. This means students will be recorded when taking exams and will need a webcam and microphone.
- If a student is suspected of cheating, such as with AI use or other cheating methods, the student will be given a zero on the exam. The student will have one week of being notified to have a meeting with the instructor either face to face in the instructor's office or through an online method through such means as Microsoft Teams or Zoom. During this meeting, the student may be asked to work out problems or even the entire test in front of the instructor to adjust the student's grade.
- If the student is caught using AI or the student fails to meet with instructor within one week of notification or the student is unable to complete the work on the exam with instructor present, a zero will be given for that exam or assignment, and there will be no opportunity for a redo.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

Check Blackboard OFTEN for Announcements and due dates.

Late work will **NOT be accepted**.

Extra credit is **NOT available** for this course.

- This is an online course – all assignments (except for the Final Exam) are open from the first day of class until the due date. Work ahead, but do not fall behind.
- It is the student's responsibility to make sure all technology is working (including the device and internet/Wi-Fi) and have a backup plan in case issues arise.
- Due dates will NOT be extended due to falling behind, traveling, technical issues (unless it is an established issue with Blackboard or McGraw Hill/ALEKS – then students will be notified of the issues through Announcements in Blackboard).
- If you have an emergency (hospital, death in the family, etc.) you **MUST** send the instructor documentation through the Messages tab on Blackboard. The instructor will then make a determination on extra time.

Note that the instructor does not have a physical office at Lamar Institute of Technology.

- Contact the instructor through the Messages tab on Blackboard (**NOT by email**).
- The Instructor will respond within 24 hours (48 hours if it is the weekend).

Virtual office hours are by appointment only.