

# MATH 1314-1A1 Co-Requisite College Algebra



**LAMAR INSTITUTE  
OF TECHNOLOGY**

## INSTRUCTOR CONTACT INFORMATION

Instructor: Emily Rueda  
Email: erueda@lit.edu  
Office Phone: 409-247-5163  
Office Location: T5 Room 106  
Office Hours: Monday: 7:30 – 9 am, 10:05 – 11:05 am, 12:10 – 1:20 pm  
Tuesday: 7:30 – 9:20 am  
Wednesday: 7:30 – 9 am, 10:05 – 11:15 am  
Thursday: 7:30 – 9:20 am

- We will be communicating with phone calls and announcements and e-mails through Blackboard.
- Do NOT use your personal e-mail to contact me. I will not respond to any personal e-mail.
- I will check my e-mails Monday through Friday (not on weekends).
- I will try to respond to you within 24 hours but please do not leave things for the last minute!

## CREDIT

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

## MODE OF INSTRUCTION

Hybrid

**This means that we will meet face-to-face on Mondays and Tuesdays and you will be working online on Wednesdays and Thursdays.**

## PREREQUISITE/CO-REQUISITE:

A score of 936-949 on the TSI-Assessment placement test.

**This class must be taken in conjunction with TMTH 0214-1A1.**

## 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.

Approved: **Initials/date**

## CORE OBJECTIVES

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.

## REQUIRED TEXTBOOK AND MATERIALS

1. MyMathLab Standalone Access Code
  - a. May be purchased online at [www.mymathlab.com](http://www.mymathlab.com)
  - b. May be purchased at a local bookstore:  
ISBN 9780136483151---- 18 Weeks  
ISBN 9780135189849---- 24 Months

Additional course policies/information regarding **MyMathLab** can be found under the “**MyMathLab Information**” tab in the Blackboard class.

**NOTE: One code will work for both MATH 1314 and TMTH 0214.**

2. There is NO TEXTBOOK for this class but you will be responsible for printing out the class notes and exercises (located in Blackboard).
3. A basic scientific calculator
  - I recommend a Casio Fraction fx260 or Texas Instrument TI-30xa calculator that can be purchased for under \$10. *Spending more for a calculator doesn't mean it will be easier to use. Usually, the more expensive the calculator, the more functions it does, and the more menus you will have to maneuver through to get it to do what you want.*
  - You will NOT be allowed to use a graphing calculator or your device's calculator.
4. A binder, notebook paper, graph paper, a folder, pencils, erasers, and a ruler. Optional: highlighters

## ATTENDANCE POLICY

- I will be taking attendance every day and recording it on Starfish
- You are expected to be ON TIME and in your seat with your pencil and notes ready.
- Once I begin teaching you are considered LATE.
- If you leave class before I have dismissed class, you will be marked ABSENT.
- The only excused absences are LIT related absences (Skills USA, a field trip, etc..). Sickness, court appearances, etc... are not considered excused absences.
- Each week I will be checking to make sure you completed all of the worksheets listed for Wednesday/Thursday of the previous week. You will be receiving a worksheet grade each week and these grades will be part of your participation grade. If you are not in class the day worksheets are checked, you will receive a grade of zero. Being in a hybrid class does not mean you can “cut corners”—you are responsible for completing all of the work a regular face-to-face co-requisite class completes.
- In addition to the worksheet grades, completion of the participation quizzes will also be part of your participation grade.

## DROP POLICY

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

## STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16-week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

**COURSE CALENDAR—Subject to Change. Please see Blackboard and your MyMathLab account for the most recent due dates.**

**NOTE: A participation quiz is due every Monday. The last participation quiz is due Friday, May 5.**

DATE	TOPIC	ASSIGNMENTS (Due on this Date)
Week 1: Jan 16 – Jan 22	Course introduction and policies. TMTH 0214 Review topics	Work on TMTH0214 MyMathLab assignments
Week 2: Jan 23 – Jan 29	TMTH 0214 Review topics Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 3: Jan 30 – Feb 5	TMTH 0214 Review topics Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 4: Feb 6 – Feb 12	TMTH 0214 Review topics Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 5: Feb 13 – Feb 19	Chapter 1: Equations and Inequalities	Last day to submit any TMTH 0214 MyMathLab assignments assigned up to this point: 2/13 with 30% penalty. Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 2/13 with 20% penalty. Chapter 1 Test 1: 2/14
Week 6: Feb 20 – Feb 26	Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 7: Feb 27-March 5	TMTH 0214 Review topics Chapter 2: Graphs	Last day to submit any TMTH 0214 MyMathLab assignment assigned up to this point: 2/27 with 30% penalty. Last day to submit any MATH 1314 MyMathLab assignments

		assigned up to this point: 2/27 with 20% penalty. Chapter 1 Test 2: 2/28
Week 8: March 6 – 10	TMTH 0214 Review topics Chapter 2: Graphs Chapter 3: Functions and Their Graphs	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 3/8 with 20% penalty. Chapter 2 Test: 3/9
Spring Break		
Week 9: March 20 – 26	Chapter 3: Functions and Their Graphs	Work on MATH 1314 MyMathLab assignments
Week 10: March 27-Apr 2	Chapter 4: Linear and Quadratic Equations	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 3/27 with 20% penalty. Chapter 2 and 3 Test: 3/28
Week 11: April 3 – 9	Chapter 4: Linear and Quadratic Equations Chapter 5: Polynomials and Rational Functions	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 4/4 with 20% penalty. Chapter 4 Test: 4/5
Week 12: April 10 – 16	Chapter 5: Polynomials and Rational Functions	Core Assignment due Work on any MATH 1314 MyMathLab assignments
Week 13: April 17 – 23	Chapter 6: Exponential and Logarithmic Functions	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 4/17 with 20% penalty. Chapter 4 and 5 Test: 4/18
Week 14: April 24 – 30	Chapter 6: Exponential and Logarithmic Functions	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 4/26 with 20% penalty. Chapter 6 Test: 4/27
Week 15: May 1 - 5	Chapter 8: Systems of Equations	Section 6.3 and 6.4 graphs due
Week 16	Final Exam	Tuesday, May 9 <sup>th</sup> 11:30 AM – 1 PM

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

- Tests 60%
- Comprehensive Final Exam 10%
- Course Assignments (including Core Assignment) 20%
- Participation 10%

## **GRADE SCALE**

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

LIT does not use +/- grading scales

## **ACADEMIC DISHONESTY**

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at <http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty>.

## **TECHNICAL REQUIREMENTS**

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. 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](mailto: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](http://www.lit.edu). Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

## **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**

- 1) The student must purchase all of the required course materials.
- 2) The student will be expected to have access to the Internet and a computer.
- 3) In your MATH 1314 Blackboard course you will see the following menu on the left-hand side of your screen:
  - a. **Start Here** -- Make sure to read EVERY item on this page. This page includes information on how you are graded in the class.
  - b. **Weekly Assignments** – Each week I will post a folder on this page containing a detailed list of what is covered each day and what needs to be done before the next class period. It is very important that you read these postings and have all work completed before the next class period.  
**Because you are in a hybrid class, it is your responsibility to check the Weekly Assignments tab in your MATH 1314 Blackboard class every day to see what work needs to be done.**
  - c. **Worksheets** – You are responsible for printing out all of the worksheets located here (unless otherwise specified)
  - d. **MATH 1314 Recordings** – All lecture recordings are located here  
**Because you are in a hybrid class, you will be responsible for listening to approximately 2.5 hours of class recordings per week and filling in your worksheets.**
  - e. **Participation Quizzes** – I will take attendance every day in class and record it on Starfish but your participation grade will be based on the completion of these quizzes.
  - f. **MyMathLab Information** – Information, registration directions, and a direct link to MyMathLab are located here.
  - g. **Syllabus and Other Info.**—The syllabus, syllabus addendum, and other class information is located here.
  - h. **Tests and the Final Exam** – Information regarding tests and the final exam is located here
    - NOTE: If you miss a test for any reason, you will receive a zero for the test. There are NO makeups or retests. At the end of the semester, the final exam may count twice for you. If your final exam grade is higher than your lowest test grade, then your final exam will count twice for you—once as the final exam and once as a test grade (it will replace your lowest test grade). If your final exam grade is lower than your test grades, then your final exam will only count once for you (as the final exam). The final exam is NOT OPTIONAL; it must be taken.
  - i. **Announcements** – It is your responsibility to check Blackboard every day to see if any announcements have been posted and to read any announcements that have been posted.
  - j. **My Grades**—This is your gradebook. Don't forget—your gradebook is automatically counting a zero for any work not yet completed. This is why your average looks so low. As you take tests, complete assignments, etc... you will see your grade going up.

- k. **Office Hours** – Here is where you will find directions on how to contact me.
- l. **Send Email** – All email communication between us must be done using LIT email. Do NOT use your personal email to contact me. I will NOT respond to any email sent using a personal email address.
- m. **Blackboard Help** – This is where to look for help with Blackboard questions.

#### 4) CLASSROOM RULES

- a. No food or tobacco in the classroom.
- b. Turn off all devices during class time. You will receive a warning for the first disruption. You will be asked to leave for any further disruptions and will be marked absent.
- c. I have the right to assign seats or change seats at any time during the semester.
- d. The only people allowed to attend class are those who are enrolled in this class. Therefore, no children or other visitors are allowed to attend this class.
- e. You will be required to wait 15 minutes for me (the instructor) to arrive to class. If, in 15 minutes, I do not arrive to class you may consider class cancelled and may leave. If instructions are given, please be sure to follow them. Make sure to check Blackboard for any assignments or information.

#### 5) CLASSROOM BEHAVIOR

- a. If I tell you to leave the room, you will not be permitted to return to class until you meet with me during my office hours. During this meeting you are to explain to me how you intend to improve your behavior or attitude. At this meeting, I will determine whether you will be allowed to return to class or if a further meeting with an administrator is necessary. If it is determined that you will not be allowed to return to class, you will receive an "F" unless you withdraw by the withdrawal deadline date.
- b. **Academic Dishonesty:** This includes but is not limited to cheating (copying, cheat sheets, etc...). If, during a test, you are involved **in any way** in academic dishonesty you will receive a zero for the test. You will not be allowed to replace this grade or retake this test. A second offense will result in a grade of "F" for the class and possible expulsion from LIT. **Cheating of any kind will not be tolerated.**