TMTH 0214-1A1 Advanced Intermediate 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 – 8 am, 9 am – 12:10 pm
	Tuesday: 7:30 – 8 am, 9:30 am – 12:20 pm
	Wednesday: 7:30 – 8 am, 11:20 am – 12:20 pm
	Thursday: 7:30 – 8 am, 11:30 am – 12:30 pm

- We will be communicating with announcements and messages through Blackboard and phone calls.
- Do NOT use your personal e-mail to contact me. I will not respond to any personal e-mail.
- I will check my messages 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

2 Semester Credit Hours (2 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.
Must be co-enrolled in MATH 1314 College Algebra. **This class must be taken in conjunction with MATH 1314-3A1.**

COURSE DESCRIPTION

A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to:
1. Define, represent, and perform operations on real and complex numbers.
2. Recognize, understand, and analyze features of a function.
3. Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, radical, and rational expressions.
4. Identify and solve absolute value, polynomial, radical, and rational equations.
5. Identify and solve absolute value and linear inequalities.
6. Model, interpret, and justify mathematical ideas and concepts using multiple representations.

Approved: Initials/date

7. Connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines

REQUIRED TEXTBOOK AND MATERIALS

1. MyMathLab Standalone Access Code
   a. Once a student has access to this class in Blackboard, they will be able to access the Pearson website and purchase a code online directly from Pearson.
      OR
   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 "**Start Here**" section of either your MATH 1314 or TMTH 0214 Blackboard course.
   - **NOTE: One code will work for both MATH 1314 and TMTH 0214.**

2. There is NO TEXTBOOK for this class. Worksheets for TMTH 0214 will be handed out during class. If you are not present on the day they are handed out, then you will need to print them.
3. A basic scientific calculator. Images of acceptable calculators for use in MATH 1314/TMTH 0214 may be found under the **Start Here** section of either your TMTH 0214 or MATH 1314 Blackboard course.
   - 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 all of the worksheets covered in class have been filled in and completed. You will be receiving a worksheet grade each week and these grades will be part of your participation grade in your MATH 1314 class. If you are not in class the day worksheets are checked, you will receive a grade of zero.
- 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 (if eligible), 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 a "DF" 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, December 1, 2023.**

DATE	TOPIC	ASSIGNMENTS (Due on this Date)
Week 1: Aug 21 – Aug 27	Course introduction and policies. TMTH 0214 Review topics	Work on TMTH0214 MyMathLab assignments
Week 2: Aug 28 – Sept 3	TMTH 0214 Review topics Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 3: Sept 4 – Sept 10	TMTH 0214 Review topics Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 4: Sept 11– Sept 17	TMTH 0214 Review topics Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 5: Sept 18 –Sept 24	Chapter 1: Equations and Inequalities	Last day to submit any TMTH 0214 MyMathLab assignments assigned up to this point: 9/18 with 30% penalty. Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 9/18 with 20% penalty. Chapter 1 Test 1: 9/19
Week 6: Sept 25 – Oct 1	Chapter 1: Equations and Inequalities	Work on TMTH0214 and MATH 1314 MyMathLab assignments
Week 7: Oct 2 – Oct 8	TMTH 0214 Review topics Chapter 2: Graphs	Last day to submit any TMTH 0214 MyMathLab assignment assigned up to this point: 10/2 with 30% penalty. Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 10/2 with 20% penalty. Chapter 1 Test 2: 10/3
Week 8: Oct 9 – Oct 15	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: 10/11 with 20% penalty. Chapter 2 Test: 10/12
Week 9: Oct 16 – Oct 22	Chapter 3: Functions and Their Graphs	Work on MATH 1314 MyMathLab assignments
Week 10: Oct 23 – Oct 29	Chapter 4: Linear and Quadratic Equations	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 10/23 with 20% penalty. Chapter 2 and 3 Test: 10/24

Week 11: Oct 30 – Nov 5	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: 11/1 with 20% penalty. Chapter 4 Test: 11/2
Week 12: Nov 6 – Nov 12	Chapter 5: Polynomials and Rational Functions	Core Assignment due Work on any MATH 1314 MyMathLab assignments
Week 13: Nov 13–Nov 19	Chapter 6: Exponential and Logarithmic Functions	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 11/13 with 20% penalty. Chapter 4 and 5 Test: 11/14
Week 14: Nov 20–Nov 26	Chapter 6: Exponential and Logarithmic Functions	Last day to submit any MATH 1314 MyMathLab assignments assigned up to this point: 11/26 with 20% penalty.
Week 15: Nov 27–Nov 29 + Exams Begin	Chapter 6: Exponential and Logarithmic Functions Chapter 8: Systems of Equations	Section 6.3 and 6.4 graphs due Chapter 6 Test: 11/27
Week 16	Final Exam	Monday, December 4 8 – 9:30 am

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

TMTH 0214 Course Assignments 40%
MATH 1314 Course Average 60%

GRADE SCALE

- 90 – 100 DA
- 80 – 89 DB
- 70 – 79 DC
- 0 – 69 DF

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. 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.

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 TMTH 0214 Blackboard course you will see the following sections listed:
    a. **Start Here** -- Make sure to read EVERY item in this section. This section contains information about the class, your gradebooks, your tests, and your final exam, images of acceptable calculators for this class, the syllabus, LIT policies, Starfish information, MyMathLab information, a MyMathLab registration video, and copies of your First Day Information Sheet and the Class Contract.
    b. Ms. Rueda – Here you will find information about your instructor and how to contact your instructor.
    c. **Go to MyMathLab!** –This is a direct link to MyMathLab.
    d. **Weekly Assignments/Participation Quizzes** – all weekly assignments and participation quizzes are located in your MATH 1314 Blackboard course. ***It is your responsibility to***

check the Weekly Assignments and Participation Quizzes tab in your MATH 1314 Blackboard class <u>every day</u> to see what work needs to be done.

e. **TMTH 0214 Recordings** – All TMTH 0214 lecture recordings are located in your MATH 1314 Blackboard course.

f. **TMTH 0214 Worksheets** – TMTH 0214 worksheets will be handed out in class. If you are not present when they are handed out, then you will be responsible for printing out the worksheets.

******** Each week I will be checking to make sure all of the worksheets covered in class have been filled in and completed. You will be receiving a worksheet grade each week and these grades will be part of your participation grade in your MATH 1314 class. If you are not in class the day worksheets are checked, you will receive a grade of zero.

g. Along the top of the screen of your MATH 1314 Blackboard tab you will see various tabs:
   i. **Gradebook**—This is your gradebook. There isn't much here because your grade in TMTH is based on your TMTH MyMathLab work and your final average in your MATH 1314 course (your final average in your MATH 1314 course will not be known until the end of the semester). Don't forget—MyMathLab is automatically counting a zero for any work not yet completed. This is why your average looks so low. As you complete assignments, etc… you will see your MyMathLab grade going up.
   ii. **Messages** – This is how we will be communicating in this course. Please do not send me emails.
   iii. **Announcements** – Every week I will send out at least one announcement. It is your responsibility to read these announcements.

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.