

Intermediate Algebra (TMTH 0375)

BASE NCBO (TMTH 0165)

INSTRUCTOR CONTACT INFORMATION

Instructor: James Jean

Email: jjean@lit.edu (Preferred)

Office Phone: (409) 880-8321

Office Location: Email instructor to set up a meeting virtually.

Office Hours: I am available Monday to Friday from 9:00 am to 4:00 pm. Date and time arranged between student and instructor.



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

TMTH 0375 3 Semester Credit Hours (3 hours lecture)

TMTH 0165 1 Semester Credit Hours (1 hour lab)

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

Must be co-enrolled in TMTH 0165 BASE NCBO (Algebra).

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.

Approved: **Initials/date**

6. Model, interpret, and justify mathematical ideas and concepts using multiple representations.
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. ALEKS Access Code
 - a. May be obtained through Eagle Learning Essentials (Link is on Blackboard)
2. Non-graphing scientific calculators are allowed. Ask your instructor if you are unsure.

ATTENDANCE POLICY

Face to face classes: you are expected to attend every class. Failure to attend may result in being dropped or loss of credit (failing the course), with or without warning.

Online classes do not attend class but are expected to login to Blackboard/ALEKS at least three a week and complete assignments prior to due date. Failure to complete assignments prior to due date may result in loss of credit. Late work may not be accepted. If a week goes by with no activity, inactivity flags can be submitted via Starfish.

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 (Dates and assignments subject to change with or without notice)

Week of	Assignment	Due Date
6/1 – 6/7	Course introduction/ First Week assignments 10.1 Addition, Subtraction, Multiplication, and Division Properties 10.2 Solving Linear Equations	
6/8 – 6/14	10.3 Linear Equations: Fractions and Decimals 10.4 Applications of Linear Equations 10.8 Linear Inequalities Chapter 10 Test 13.1 Multiplying and Dividing Expressions w/Common Bases	Ch 10 Test Due 06/11
6/15 – 6/21	13.2 More Properties of Exponents 13.3 Definitions of b^0 and b^{-n} 13.5 Addition and Subtraction of Polynomials 13.6 Multiplication of Polynomials (Special Products)	
6/22 – 6/28	13.7 Division of Polynomials Chapter 13 Test 14.1 Greatest Common Factor, Factor by Grouping 14.2 Factoring Trinomials of the Form $x^2 + bx + c$ 14.4 Factoring Trinomials AC Method	Ch 13 Test Due 06/22
6/29 – 7/5	14.5 Difference of Squares and Perfect Square Trinomials Chapter 14 Test 15.1 Rational Expressions	Ch 14 Test Due 07/03
7/6 – 7/12	15.3 Least Common Denominator 15.4 Addition and Subtraction of Rational Expressions 15.5 Complex Fractions 15.6 Rational Equations	
7/13 – 7/19	16.1 Introduction to Relations 16.2 Introduction to Functions 16.3 Graphs of Functions Chapter 15 and 16 Test	Ch 15/16 Test Due 07/17
7/20 – 7/26	17.1 Compound Inequalities 17.3 Absolute Value Equations 17.4 Absolute Value Inequalities	
7/27 – 8/2	Chapter 17 Test 18.2 Rational Exponents 18.3 Simplifying Radical Expressions 18.4 Addition and Subtraction of Radicals 18.5 Multiplication of Radicals 18.6 Division of Radicals and Rationalization	Ch 14 Test Due 07/27
8/3 – 8/9	18.7 Solving Radical Equations 18.8 Complex Numbers 19.1 Square Root Property and Completing the Square 19.2 Quadratic Formula	
8/10 – 8/14	Chapter 18/19 Test Final Exam – Due by 08/14	Ch 15/16 Test Due 08/11

COURSE EVALUATION FOR TMTH 0375

Final grades will be calculated according to the following criteria:

- Test 60%
- Assignments 40%

GRADE SCALE

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

LIT does not use +/- grading scales

COURSE EVALUATION FOR TMTH 0165

Final grades will be calculated according to the following criteria:

- If a final class grade of DA, DB, or DC is earned in TMTH 0375, then a grade of S (Satisfactory) will be earned in TMTH 0165.
- If a final class grade of DF is earned in TMTH 0375, then a grade of U (Unsatisfactory) will be earned in TMTH 0165

GRADE SCALE

- 70-100 S
- 0-69 U

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 \(lit.edu\)](#).

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

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.

Instructor Expectations from Students:

- Weekly email communication regarding assignment and upcoming test due dates
- Response to email/remind text within 24 hours (same day if received before 5pm M-Th or before noon Friday)
- Flexible office hour/ virtual help when needed.
- Weekly grade update

Instructor Expectations of Students:

- Seek help from instructor early and often, do not wait until the last minute!
- Plan ahead; if you will miss an exam, make prior arrangements to take it early or schedule a make-up date at instructors' convenience
- When sending emails identify yourself with class and section
- Participate in class lecture/discussions.