

Intermediate Algebra (TMTH 0375-2A1)

BASE NCBO (TMTH 0165-2A1)

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 0165-2A1 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.
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.

INSTRUCTOR CONTACT INFORMATION

Instructor: **Widad Abdelwahab**

Email: **whabedelwahab@lit.edu**

Office Phone: **409-241-7873**

Office Location: **Building TA5 and Room 106**

Office Hours: **Virtual office hours by appointment. During the semester I will be creating virtual meetings (optional). I will send message through blackboard.**

Approved: **Initials/date**



**LAMAR INSTITUTE
OF TECHNOLOGY**

1. We will be communicating with announcements and messages through Blackboard.
2. Do NOT use your personal e-mail to contact me. I will not respond to any personal e-mail.
3. I will check my messages Monday through Friday (not on weekends).
4. I will try to respond to you within 24 hours but please do not leave things for the last minute!
5. You must log in to black to check for new messages, announcements, and work on the assignments.
6. I will be asking you to respond to messages with "I understand"

REQUIRED TEXTBOOK AND MATERIALS

1. A Pearson MyMathLab Standalone Access Code
2. Once a student has access to this class (TMTH 0375) in Blackboard, they will be able to access the Pearson website
3. *Additional information regarding MyMathLab can be found under the **Start Here** section of your TMTH 0375 Blackboard course.*
4. There is NO TEXTBOOK for this class but you will be responsible for printing out the class notes and exercises (located under the **Worksheets** section of your Blackboard TMTH 0375 course).
5. A basic scientific calculator. Images of acceptable calculators for use in TMTH 0375 may be found under the **Start Here** section of your TMTH 0375 Blackboard course.
6. You will NOT be allowed to use a graphing calculator or your device's calculator.
7. **A binder, notebook paper, a folder, pencils, and erasers. Optional: highlighters**

ATTENDANCE POLICY

Blackboard logon and access to course a minimum of four times per week.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

Course Requirements

1. The student must enroll in MyMathLab through blackboard..
2. The student will be expected to have access to the Internet and a computer with webcam and microphone.
3. Blackboard logon and access to course a minimum of four times per week.
4. The due dates will be posted under tests and assignments calendar on blackboard.

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. Online 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.

| Week | TOPIC | <p align="center">ASSIGNMENTS (Due on this Date)</p> <p>Please print a copy of the “Due Dates for TMTH 0375” worksheet located under the <i>Weekly Assignments and</i> section of your TMTH 0375 Blackboard course for all due dates. Your MyMathLab course also contains a list of all due dates.</p> |
|-------------|--|---|
| Week 1 | Course introduction and policies Module 1: Introduction to Real Numbers and Algebraic Expressions | Work on all introductory activities and Module 1 |
| Week 2 | Module 1: Introduction to Real Numbers and Algebraic Expressions | <ul style="list-style-type: none"> • All Introductory activities due • Work on Module 1 |
| Week 3 | Module 2: Solving Equations and Inequalities | <ul style="list-style-type: none"> • MyMathLab Module 1 assignments due • MyMathLab Module 1 Test due • Work on Module 2 |
| Week 4 | Module 2: Solving Equations and Inequalities | Work on Module 2 |
| Week 5 | Module 3: Polynomials | <ul style="list-style-type: none"> • MyMathLab Module 2 assignments due • MyMathLab Module 2 Test due • Work on Module 3 |
| Week 6 | Module 3: Polynomials | Work on Module 3 |
| Week 7 | Module 4: Factoring | <ul style="list-style-type: none"> • MyMathLab Module 3 assignments due • MyMathLab Module 3 Test due • Work on Module 4 |
| Week 8 | Module 4: Factoring | Work on Module 4 |
| Week 9 | Module 4: Factoring | <ul style="list-style-type: none"> • MyMathLab Module 4 assignments due • MyMathLab Module 4 Test due |
| Week 10 | Module 5: Rational Expressions and Equations | • Work on Module 5 |
| Week 11 | Module 5: Rational Expressions and Equations | Work on Module 5 |
| Week 12 | Module 6: Radical Expressions and Equations | <ul style="list-style-type: none"> • MyMathLab Module 5 assignments due • MyMathLab Module 5 Test due • Work on Module 6 |
| Week 13 | Module 6: Radical Expressions and Equations | Work on Module 6 |
| Week 14 | Module 7: Complex Numbers Module 8: Quadratic Equations | <ul style="list-style-type: none"> • MyMathLab Module 6 assignments due • MyMathLab Module 6 Test due • Work on Module 7 |
| Week 15 | Module 8: Quadratic Equations Module 9: Functions | <ul style="list-style-type: none"> • Work on Module 8 • Work on Module 9 • MyMathLab Module 7/8/9 assignments due • MyMathLab Module 7/8/9 Test due • Work for Module 7/8/9 Test due |
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COURSE EVALUATION

Final grade will be calculated according to the following criteria:

☑ Online Tests 60% (Module tests will be taken on MyMathLab using Respondus Lockdown Browser).
More information will be given by the instructor.

☑ Course Assignments 40%

GRADE SCALE

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

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.

AI 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.

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.

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>.

ARTIFICIAL INTELLIGENCE STATEMENT

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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

On [blackboard](#)