Intermediate Algebra TMTH-0375-3C1 Fall 2024

LAMAR INSTITUTE OF TECHNOLOGY

INSTRUCTOR CONTACT INFORMATION

Instructor: Daniel Dove
Email: dadove@lit.edu
Office Phone: (409) 247-5017
Office Location: TC 112 A
Office Hours: M 10:30 – 12:30
T 8-11, 12:30-1:30
W 10:30 – 11, 12-12:30
R 8-11
F 10:30-12:30

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

MODE OF INSTRUCTION
Face to Face

PREREQUISITE/CO-REQUISITE:
Must be co-enrolled in TMTH 0165 BASE NCBO (Mathematics)

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.

Learning Outcomes

Upon successful completion of this course, students will:

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.

Approved: Initials/date

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.

REQUIRED TEXTBOOK AND MATERIALS
1. College Algebra, by Sullivan, 11th edition with MyLabMath Access (18 week). You will access this material on the first day through Blackboard.
2. You will need at least a scientific calculator. No phones as calculators or calculators on the computer or tablets allowed.

ATTENDANCE POLICY
Attendance is mandatory and will count as an exam grade. The grade will be determined by the ratio of number of days attended to total class days. Two "free" absences are allowed before this policy takes effect to help in earning a 100. I also reserve the right to allow an extra day(s) for documented extenuating circumstances. In addition, all exams will be in person on days listed in the course schedule or as announced in class and Blackboard. If you must miss an exam day, you need to contact me in advance of the test to make alternate arrangements.

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 Schedule (Dates subject to change with notice in Blackboard)

Week	Material Covered	Due Date (all assignments due by 11:59pm on due date)
Aug 26 - 30	Module 1 Real Numbers and Introduction to Algebraic Expressions Parts 1-3	
Sep 2 - 6 Sep 2 is Labor Day Holiday, no classes	Module 1 Parts 4-6	
Sep 9- 13	Module 2 Solving Equations and Inequalities (Linear and Absolute Value) Parts 1 -5	Netiquette and MyMathLab Orientation Assignment All Module 1 Assignments **Module 1 Test Sep 10**
Sep 16 - 20	Module 2 Parts 6-9	
Sep 23 - Sep 27	Module 3 Introduction to Polynomials Parts 1-3	ALL Module 2 Assignments **Module 2 Test Sep 24**
Sep 30 - Oct 4	Module 3 Parts 4 and 5	
Oct 7 - 11	Module 4 Factoring Parts 1-3	All Module 3 Assignments **Module 3 Test Oct 8**
Oct 14 -18	Module 4 Parts 4-6	
Oct 21 - 25	Module 5 Rational Expressions and Equations Parts 1-3	Synchronous Class Meeting #2 ALL Module 4 Assignments Due **Module 4 Test Oct 22**
Oct 28 - Nov 1	Module 5 Parts 4-6	
Nov 4 – 8	Module 6 Radical Expressions and Equations Parts 1-4	ALL Module 5 Assignments **Module 5 Test Nov 5**
Nov 11 - 15	Module 6 Parts 5-7	
Nov 18 - 22	Module 7 Quadratic Equations and Complex Numbers Parts 1 and 2	ALL Module 6 Assignments **Module 6 Test Nov 19**
Nov 25- 26	Module 7 Parts 3 and 4	
Dec 2 - 6	Module 8 Functions Parts 1-3	ALL Module 7 Assignments **Module 7 Test Dec 3**
Dec 9	Module 8 Parts 4 and 5	ALL Module 8 Assignments **Module 8 Test Dec 10 (Day and time subject to change based on final exam schedule)**

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Tests   **60%**
Course Assignments   **40%**

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 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.

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.

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

Instructor Expectations from Students:

➢ Weekly email communication and Blackboard announcements regarding assignment and upcoming test due dates
➢ Response to email within 24 hours Sunday through Thursday, or within 48 hours Friday and Saturday.
➢ Flexible office hour/ virtual help when needed.
➢ Weekly grade updates

Instructor Expectations of Students:

➢ Seek help from instructor early and often, do not wait until the last minute!

- On exams, all of your work should be completely your own. You are allowed scratch paper, a pencil, and your calculator. Any evidence of cheating could result in a zero on that particular exam. Repeated offenses will cause you to fail the course and to be referred to the department chair for disciplinary action.
- Plan ahead; if you will miss an exam, make prior arrangements to take it early or schedule a make-up within 24 hours or you will earn a zero on the exam! I may require documentation (like a doctor's note) if you do not schedule the makeup within 24 hours or can not make up the exam the same week.
- When sending emails identify yourself with class and section.