Intermediate Algebra- 3C1- DM8 (TMTH 0375)

BASE NCBO (TMTH 0165)

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 In person

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.

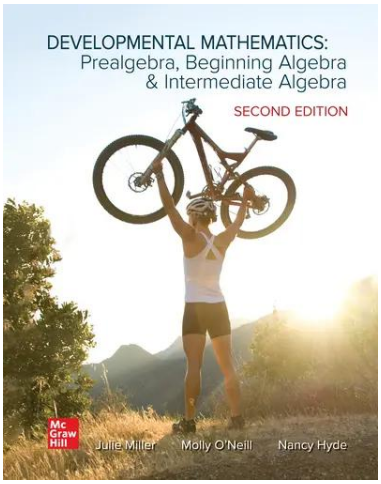
COURSE OBJECTIVES
Upon completion of this course, the student will be able to

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.
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:	Larry D. Gregory, Jr.
Email:	ldgregory@lit.edu
Office Phone:	409-549-0228
Office Location:	Virtual or T200 prior to class

REQUIRED TEXTBOOK AND MATERIALS



(Comes inclusive with ELE bundle for $15 per SCH or $45)
If opted out Aleks subscriptions vary, 6-month $99.95

ISBN10: 1260728250 I **ISBN13:** 9781260728255

1. A basic scientific calculator.
2. **A binder, notebook paper, a folder, pencils, and erasers.**

Optional: highlighters

ATTENDANCE POLICY

Attendance is required, online students should login and work on assignments 2-3 times per week, minimum.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified date as listed in the College Calendar on the Student Success web page. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE CALENDAR – Subject to Change. *I will announce tests at least a week in advance*
Follow all due dates in ALEKS for now.

Week	TOPIC
Week 1	**Course introduction** 10.1 Addition, Subtraction, Multiplication, and Division Properties
Week 2	10.2 Solving Linear Equations 10.3 Linear Equations: Fractions and Decimals 10.4 Applications of Linear Equations
Week 3	10.8 Linear Inequalities 13.1 Multiplying and Dividing Expressions w/Common Bases 13.2 More Properties of Exponents
Week 4	13.3 Definitions of b^0 and b^{-n} 13.5 Addition and Subtraction of Polynomials 13.6 Multiplication of Polynomials (Special Products)
Week 5	13.7 Division of Polynomials
Week 6	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
Week 7	14.5 Difference of Squares and Perfect Square Trinomials 15.1 Rational Expressions 15.3 Least Common Denominator
	Spring Break Campus Closed
Week 8	15.4 Addition and Subtraction of Rational Expressions 15.5 Complex Fractions 15.6 Rational Equations
Week 9	16.1 Introduction to Relations
Week 10	16.2 Introduction to Functions 16.3 Graphs of Functions 17.1 Compound Inequalities
Week 11	17.3 Absolute Value Equations 17.4 Absolute Value Inequalities 18.2 Rational Exponents
Week 12	18.3 Simplifying Radical Expressions 18.4 Additional and Subtraction of Radicals

	18.5 Multiplication of Radicals
Week 13	18.6 Division of Radicals and Rationalization
Week 14	18.7 Solving Radical Equations 18.8 Complex Numbers 19.1 Square Root Property and Completing the Square
Week 15	19.2 Quadratic Formula Final Review
Week 16	**Final Exam 05/07/2026**

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

COURSE EVALUATION FOR TMTH 0165

Final grades will be calculated according to the following criteria:

- 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

TECHNICAL REQUIREMENTS

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the LIT Online Experience page. 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.

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

1. Disruptive or disrespectful behavior of any kind during class will not be tolerated. If disrespectful behavior becomes an issue at any time, you will be asked to leave and will be counted absent.
2. All cellphones and other electronic devices should be turned off during class. Failure to do so may result in an absence. **During exams, phones should not even be visible!**
3. No food or drinks during class.
4. Communication is key. If you have something come up that I need to know about, please let me know. I am a very understanding person. Please text or call me if you have any issues. If I need to make adjustments in due dates as a class, I will do my best to accommodate everyone to the best of my ability.