

CREDIT

TMTH 0375 2A4

3 Semester Credit Hours (3 hours lecture)

TMTH 0165 2C4

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.
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: Bishar Sethna

Email: bsethna@lit.edu (preferred)

Office Phone: (409) 951-5739

Office Location: CB 233 C

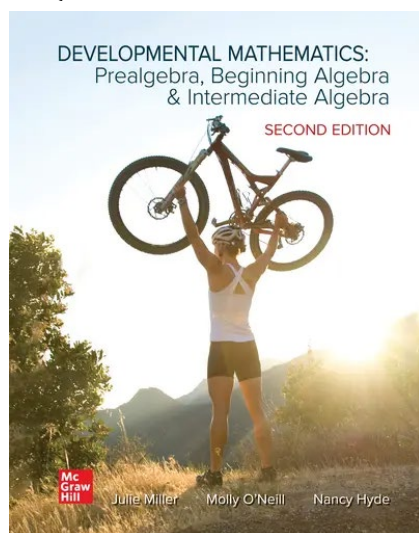
Office Hours:

- **Monday: 7:30 am - 5:00 pm**
- **Tuesday: 7:30 am - 5:00 pm**
- **Wednesday: 7:30 am - 5:00 pm**
- **Thursday: 7:30 am - 5:00 pm**
- **Friday: 7:30 am - 5:00 pm**



**LAMAR INSTITUTE
OF TECHNOLOGY**

REQUIRED TEXTBOOK AND MATERIALS



ALEKS Developmental Mathematics. *Physical textbook not required. Online **subscription to ALEKS is required** and comes with eBook. This is included in the ELE bundle, or you may purchase subscriptions directly from ALEKS*

If opted out Aleks subscriptions vary, 6-month \$99.95

ISBN10: 1260728250 | **ISBN13:** 9781260728255

Materials:

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

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.

Week	TOPIC	ASSIGNMENTS (Due on this Date)
Week 1	Course introduction Initial Knowledge Check 10.1 Addition, Subtraction, Multiplication, and Division Properties 10.2 Solving Linear Equations	October 5 th , 2026
Week 2	10.3 Linear Equations: Fractions and Decimals 10.4 Applications of Linear Equations 10.8 Linear Inequalities	October 5 th , 2026
	Module 10 Test	October 2 nd , 2026 – October 5 th , 2026
Week 3	13.1 Multiplying and Dividing Expressions w/Common Bases 13.2 More Properties of Exponents 13.3 Definitions of b^0 and b^{-n}	October 19 th , 2026

Week 4	13.5 Addition and Subtraction of Polynomials 13.6 Multiplication of Polynomials (Special Products) 13.7 Division of Polynomials	October 19 th , 2026
	Module 13 Test	October 16 th . 2026 – October 19 th , 2026
Week 5	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 14.5 Difference of Squares and Perfect Square Trinomials	October 26 th , 2026
	Module 14 Test	October 23 rd . 2026 – October 26 th , 2026
Week 6	15.1 Rational Expressions 15.3 Least Common Denominator 15.4 Addition and Subtraction of Rational Expressions 15.5 Complex Fractions	November 9 th , 2026
Week 7	15.6 Rational Equations 16.1 Introduction to Relations 16.2 Introduction to Functions 16.3 Graphs of Functions	November 9 th , 2026
	Module 15 and Module 16 Test	November 6 th , 2026 – November 9 th , 2026
Week 8	17.1 Compound Inequalities 17.3 Absolute Value Equations 17.4 Absolute Value Inequalities	November 16 th , 2026
	Module 17 Test	November 13 th , 2026 – November 16 th , 2026
Week 9	18.2 Rational Exponents 18.3 Simplifying Radical Expressions 18.4 Addition and Subtraction of Radicals 18.5 Multiplication of Radicals	November 30 th , 2026
Week 10	18.6 Division of Radicals and Rationalization 18.7 Solving Radical Equations 18.8 Complex Numbers 19.1 Square Root Property and Completing the Square 19.2 Quadratic Formula	November 30 th , 2026

	Module 18 and Module 19 Test	November 27 th , 2026 – November 30 th , 2026
Week 11	Final Review	
	Final Exam	December 5 th , 2026 – December 7 th , 2026

COURSE EVALUATION FOR TMTH 0375

Final grades will be calculated according to the following criteria:

- **Test** 60%
- **Final Exam** 20%
- **Assignments** 20%

GRADE SCALE

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

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 \(lit.edu\)](https://www.lit.edu/special-populations).

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.

Math AI Policy

- No AI tools, apps, software, etc. are to be used on any work that is scored, graded, assessed, etc.
 - This includes all homework, exams, tests, projects, assessments, quizzes, discussions, etc.
- Failure to follow these guidelines (as deemed by the instructor) may be considered academic dishonesty and will be managed by instructor discretion or for exams, the Math testing policy.

Math Testing Policy

- All online Math courses will **use Respondus Lockdown Browser and Monitor**. This means students will be recorded when taking exams and **will need a webcam and microphone**.
- If a student is suspected of cheating, such as with AI use or other cheating methods, the student will be given a zero on the exam. The student will have one week of being notified to have a meeting with the instructor either face to face in the instructor's office or through an online method through such means as Microsoft Teams or Zoom. During this meeting, the student may be asked to work out problems or even the entire test in front of the instructor to adjust the student's grade.
- If the student is caught using AI or the student fails to meet with instructor within one week of notification or the student is unable to complete the work on the exam with instructor present, a zero will be given for that exam or assignment, and there will be no opportunity for a redo.

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

Students Expectations of Instructor:

- Regular announcements will keep you informed about upcoming deadlines, changes to the schedule, or any other important course updates.
- Response to email within 24 to 48 hours.
- In addition to my regular office hours, I will hold regular virtual office hours, where you can ask questions and get help with course material.
- Timely grading of tests.
- If you're struggling with a concept or assignment, I'm available for additional help through email, video meetings, or by scheduling a one-on-one session.
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Your success in this course is a priority, and I'm committed to supporting you every step of the way. My goal is to help you build confidence and mastery in essential mathematical concepts so that you can approach future math courses with ease.

Instructor Expectations of Students:

- Timely completion of assignments and exams.
- If something is unclear, seek help from the instructor, the learning center located in the Eagles Nest (EN) building, early and often, do not wait until the last minute!
- On exams, all 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 exam.
- Ensure you have access to a reliable internet connection, as well as any required software or platforms used in the course (e.g., **An ALEKS Account**, calculator, or specific online tools).
- An online course can be challenging so Plan ahead using a planner, digital calendar, or course management tool and make it a habit to log in to the course at least 3 times a week to stay on top of assignments, exams, deadlines, and key concepts.
- Be respectful in all communications in your interaction in discussions, group work, and email correspondence with peers and the instructor.

By setting these expectations, I aim to create an environment where students feel comfortable asking questions, seeking help, and making progress. Math can be challenging, but persistence and practice are key to improvement. Approach this course with an open mind, a willingness to ask questions, and a commitment to improving your skills.