

Developmental Math (TMTH 0174-3C1)

INSTRUCTOR CONTACT INFORMATION

Instructor: Alfred de la Rosa, Jr.

Email: adelarosa@lit.edu

Office Phone: (409) 247-4757

Office Location: Building TA5, Room 103

Office Hours: Monday: 9:00 am-12:00 pm; 2:00 pm-2:30 pm
Tuesday: 9:00 am-9:30 am, 12:30 pm-2:30 pm
Wednesday: 9:00 am-10:00 am, 11:30 am-12:00 pm
Thursday: 9:00 am-9:30 am, 12:30 pm-2:30 pm
Friday: 9:00 am-2:00 pm



**LAMAR INSTITUTE
OF TECHNOLOGY**

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 0374 (Developmental Mathematics)

COURSE DESCRIPTION

The course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving.

COURSE OBJECTIVES

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

1. Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.
2. Define, represent, and perform operations on real numbers, applying numeric reasoning to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.
3. Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.
4. Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.
5. Use graphs, tables, and technology to analyze, interpret, and compare data sets.
6. Construct and use mathematics models in verbal, algebraic, graphical, and tabular form to solve problems in a variety of contexts and to make predictions and decisions.

Approved: **Initials/date**

REQUIRED TEXTBOOK AND MATERIALS

1. A Pearson *MyMathLab* standalone access code
 - a. Once students have access to this class in Blackboard, they will be able to access the Pearson website and purchase a code online directly from Pearson.
OR
 - b. May be purchased at a local bookstore:
18-Week Standalone Access Card: ISBN 9780135910269 or
24-Week Standalone Access Card: ISBN 9780135189962
2. Basic six-function calculator--no scientific or graphing calculators or calculators on cell phones, tablets, etc., are permitted.

ATTENDANCE POLICY

You will be required to sign a sign-in sheet at the beginning of each class period. **If you do not sign in, you will be marked absent.** If you are more than 15 minutes late for class, you will be marked absent and will not be allowed to sign in. **A roll call may be given at the end of the class period to ensure accuracy of the sign-in sheet.**

In this class, attendance will count as part of your grade. Your attendance grade will be based on the percentage of days you attend. If you arrive on time, remain in class until the class is dismissed by the instructor, and actively participate during the class period (e.g., taking notes, taking tests, or completing any other activity assigned by the instructor), you will earn 100 points for that day. Students who miss class, sleep in class, social network or text in class, or do not take notes or exams will receive a grade of 0 for the day. Absences due to a valid reason such as an illness or emergency will be excused only if the student provides written documentation. *Exception: Medical or dental appointments that coincide with the class period will not be excused.*

DROP POLICY

If you wish to drop the course (if eligible), 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 a "U" 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

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
8-21-23	Module 1 Part 1: Notation, Order, Rounding Part 2: Applications and Problem Solving Part 3: Exponential Notation; Order of Operations Part 4: Factors vs. Multiples Part 5: Prime vs. Composite; Prime Factorization Part 6: Greatest Common Factor and Least Common Multiple	Module 1 Worksheets Monday, August 21, 2023	MyMathLab: Module 1, Parts 1-6 Tuesday, September 5, 2023
9-6-23	Module 2 Part 1: Fraction Notation and Simplifying Part 2: Multiplication and Division Part 3: Order; Addition and Subtraction Part 4: Mixed Numerals Part 5: Applications and Problem Solving Part 6: Order of Operations Part 7: Simple Probability	Module 2 Worksheets Wednesday, September 6, 2023	MyMathLab: Module 2, Parts 1-7 Tuesday, September 26, 2023
9-27-23	Module 3 Part 1: Decimal Notation; Order Part 2: Rounding Part 3: Order of Operations Part 4: Fraction Notation; Decimal Notation Part 5: Applications and Problem Solving	Module 3 Worksheets Wednesday, September 27, 2023	MyMathLab: Module 3, Parts 1-5 Sunday, October 8, 2023
10-9-23	Module 4 Part 1: Ratio and Proportion Part 2: Percent, Decimal, and Fraction Notation Part 3: Solving Percent Problems	Module 4 Worksheets Monday, October 9, 2023	MyMathLab: Module 4, Parts 1-5 Sunday, October 22, 2023

	Part 4: Applications of Percent Part 5: Simple Interest		
10-23-23	Module 5 Part 1: Measures of Central Tendency Part 2: Interpreting Data from Tables and Graphs Part 3: Interpreting and Drawing Bar Graphs and Line Graphs Part 4: Interpreting and Drawing Circle Graphs	Module 5 Worksheets Monday, October 23, 2023	MyMathLab: Module 5, Parts 1-4 Sunday, November 5, 2023
10-30-23	Module 7 Part 1: The Real Numbers Part 2: Addition and Subtraction of Real Numbers Part 3: Applications Involving Addition and Subtraction of Real Numbers Part 4: Multiplication and Division of Real Numbers Part 5: Applications Involving Multiplication and Division of Real Numbers	Module 7 Worksheets Monday, October 30, 2023	MyMathLab: Module 7, Parts 1-5 Sunday, November 5, 2023
11-6-23	Module 7 Part 6: Order of Operations Part 7: Introduction to Algebra Part 8: Properties of Real Numbers Part 9: Algebraic Expressions Part 10: Simplifying Algebraic Expressions		MyMathLab: Module 7, Parts 6-10 Tuesday, November 28, 2023
11-15-23	Module 8 Part 1: Solving One-Step Equations with Addition or Subtraction Part 2: Solving One-Step Equations with Multiplication or Division Part 3: Solving Multi-Step Equations	Module 8 Worksheets Wednesday, November 15, 2023	MyMathLab: Module 8, Parts 1-5 Tuesday, November 28, 2023

	Part 4: Solving More Multi-Step Equations Part 5: Applications		
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COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Course Assignments 40%
- Online Module Tests 60%

GRADE SCALE

- 70-100 S--Satisfactory
- 0-69 U--Unsatisfactory

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 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.

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. The student will be expected to have access to the internet and a computer.
2. No food, drinks, or use of tobacco products in class.
3. Laptops, telephones, and any other electronic devices must be turned off during class.