Developmental Math (TMTH 0374-3A1)

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: 11:00 am-2:00 pm
Tuesday: 12:30 pm-1:00 pm; 2:30 pm-3:30 pm
Wednesday: 10:00 am-2:00 pm
Thursday: 12:30 pm-1:00 pm; 2:30 pm-3:30 pm
Friday: 10:00 am-1:00 pm

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

MODE OF INSTRUCTION
Face to face

PREREQUISITE/CO-REQUISITE:
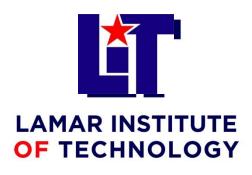Must be co-enrolled in TMTH 0174 Base NCBO (Mathematics).

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. Pearson *MyMathLab* access
   NOTE: With access to *MyMathLab* in TMTH 0374, **no additional MyMathLab access requirement is necessary for TMTH 0174.**
   a. Once students have access to this class in Blackboard, they will be able to access the Pearson website and their assignments in *MyMathLab*.
   b. ISBN 9780138109738
2. Basic six-function calculator--no scientific or graphing calculators or calculators on cell phones, tablets, etc., are permitted.

Access to MyMathLab is available through the Eagle Learning Essentials (ELE) program at $14 per credit hour added to your student account. Students may opt out of this program if they do not wish to participate in it. The deadline for opting out during this 16-week course is February 5, 2025. For more information, please go to **https://www.lit.edu/student-success/eagle-learning-essentials**.

ATTENDANCE POLICY

This is a face-to-face lecture class. 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 tardy 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.**

During each class period, students will receive instruction based on lecture notes and prepared examples. After a module or unit has been completed, the instructor will give a test in class on the course material. Students who miss class, sleep in class, social network or text in class, or do not take their test will be counted absent 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 "DF" in the course. *If you drop this course, you must also drop TMTH 0174.*

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)
1-21-25	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 **Tuesday, January 21, 2025**	MyMathLab: Module 1, Parts 1-3 **Sunday, January 26, 2025** MyMathLab: Module 1, Parts 4-6 **Sunday, February 2, 2025**
2-3-25	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 **Monday, February 3, 2025**	MyMathLab: Module 2, Parts 1-4 **Sunday, February 9, 2025** MyMathLab: Module 2, Parts 5-7 **Sunday, February 16, 2025**
2-17-25	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 **Monday, February 17, 2025**	MyMathLab: Module 3, Parts 1-3 **Sunday, February 23, 2025** MyMathLab: Module 3, Parts 4-5 **Sunday, March 2, 2025**
3-3-24	Module 4 Part 1: Ratio and Proportion Part 2: Percent, Decimal, and Fraction Notation	Module 4 Worksheets **Monday, March 3, 2024**	MyMathLab: Module 4, Parts 1-2 **Sunday, March 9, 2025**

3-17-25	Part 3: Solving Percent Problems Part 4: Applications of Percent Part 5: Simple Interest	Module 4 Worksheets **Monday, March 17, 2025**	MyMathLab: Module 4, Parts 3-5 **Sunday, March 23, 2025**
3-24-25	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, March 24, 2025**	MyMathLab: Module 5, Parts 1-4 **Sunday, March 30, 2025**
3-31-25	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, March 31, 2025**	MyMathLab: Module 7, Parts 1-3 **Sunday, April 6, 2025** MyMathLab: Module 7, Parts 4-5 **Sunday, April 13, 2025**
4-14-25	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 6-8 **Sunday, April 20, 2025** MyMathLab: Module 7, Parts 9-10 **Sunday, April 27, 2025**
4-28-25	Module 8 Part 1: Solving One-Step Equations with Addition or Subtraction Part 2: Solving One-Step Equations with Multiplication or Division	Module 8 Worksheets **Monday, April 28, 2025**	MyMathLab: Module 8, Parts 1-3 **Sunday, May 4, 2025** MyMathLab: Module 8, Parts 4-5 **Tuesday, May 6, 2025**

	Part 3: Solving Multi-Step Equations Part 4: Solving More Multi-Step Equations Part 5: Applications		

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Module 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 accessed 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.

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. 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.