TMTH 0374-2C1 (DM 7)

Fall 2024

INSTRUCTOR CONTACT INFORMATION

Instructor:	Larry D. Gregory, Jr.
Email:	ldgregory@lit.edu
Office Phone:	409-549-0228
Office Location:	Online
Office Hours:	Contact by text, phone call, or email (7 AM-10 PM)

CREDIT

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

MODE OF INSTRUCTION

Online

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:

- Use appropriate symbolic notation and vocabulary and vocabulary to communicate, interpret, and explain mathematical concepts.
- 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.
- Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.
- Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.
- Use graphs, tables, and technology to analyze, interpret, and compare data sets.
- Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.

- Construct and use mathematic models in verbal, algebraic, graphical, and tabular form to solve problems in a variety of contexts and to make predications and decisions.

REQUIRED TEXTBOOK AND MATERIALS

You are required to buy an access code for MyMathLab for your TMTH 0374 course. You will receive instructions from your instructor. Purchasing an access code is NOT optional. You will need MyMathLab to complete homework assignments, so you will NOT pass this course if you do not purchase an access code for MyMathLab.

You will want to get a three ring binder or folder to organize your notes and handouts. You will want to have scratch paper, pencils, and basic classroom supplies for this course. You will want to have access to a printer that way you can print all of your notes and handouts out for the semester.

You will be allowed a basic 6 function calculator, not a scientific calculator or a graphing calculators. You will also not be allowed to use your calculator on your phone.

ATTENDANCE POLICY

There is not a mandatory attendance policy for online courses, however if you do not keep pace with the course and pay attention to deadlines, you will not pass. Communication is key. If something comes up that I need to be aware of, please let me know. My job is to make sure that you are successful!

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. Per institutional standards, students are who are enrolled in a developmental course are not allowed to drop 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

TMTH 0374 (16 Weeks) Course Outline and Important Due Dates (in My Math Lab)		
Assignments Due	Lesson	Due Date
	Notation, Order, and Rounding	09/08/2024
	Basic Problem Solving and Applications	09/08/2024
	Exponential Notation and Order of Operations	09/08/2024
	Factors, Prime Factorization, GCF, and LCM	09/08/2024
Quiz #1- Quiz #6	Module #1 Test	09/08/2024
	Simplifying Fractions	09/22/2024
	Multiplication and Division of Fractions	09/22/2024
	Adding and Subtracting Fractions	09/22/2024
	Mixed Numbers	09/22/2024
	Applications and Problem Solving Involving Fractions	09/22/2024
	Order of Operations involving Fractions	09/22/2024
	Probability	09/22/2024
Quiz #7- Quiz #13	Module #2 Test	09/22/2024
	Decimals and Rounding	10/06/2024
	Order of Operations involving Decimals	10/06/2024
	Converting Between Fraction Notation and Decimal Notation	10/06/2024
	Applications and Problem Solving Involving Decimals	10/06/2024
Quiz #14- Quiz #18	Module #3 Test	10/06/2024
	Ratio and Proportions	10/20/2024
	Percents, Decimals, and Fractions	10/20/2024
	Solving Percent Problems	10/20/2024
	Applications of Percentages	10/20/2024
	Simple Interest	10/20/2024
Quiz #19-Quiz #23	Module #4 Test	10/20/2024
	Measures of Central Tendency	11/03/2024
	Interpreting Data from Tables and Graphs	11/03/2024
	Interpreting Line, Bar, and Circle Graphs	11/03/2024
Quiz #24- Quiz #27	Module #5 Test	11/03/2024
	The Real Numbers and Ordering Real Numbers	11/17/2024
	Adding and Subtracting Real Numbers	11/17/2024
	Multiplying and Dividing Real Numbers	11/17/2024
	Order of Operations with Real Numbers	11/17/2024
	Properties of Real Numbers and Simplifying Algebraic Expressions	11/17/2024
	Introduction to Algebra	11/17/2024

Quiz #28- Quiz #37	Module #6 Test	11/17/2024
	Solving Equations Involving Addition and Subtraction	12/08/2024
	Solving Equations with Multiplication and Division	12/08/2024
	Solving Multi-Step Equations	12/08/2024
	Solving More Multi-Step Equations	12/08/2024
	Applications of Solving Equations	12/08/2024
Quiz #38- Quiz #41	Module #7 Test	12/08/2024

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Tests: 60%
- Homework Assignments: 40%

GRADING 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.

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.

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. Disruptive or disrespectful behavior of any kind during class will not be tolerated.
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. Course syllabus and information, including test grades, can be found on Blackboard. Homework assignments and grades can be found in MyMathLab. Your average will be found in My Math Lab.
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.