

Developmental Mathematics (TMTH 0374)

INSTRUCTOR CONTACT INFORMATION

Instructor: Chris Sams

Email: casams@lit.edu

Office Phone: 409-247-5186

Office Location: T5 Rm. 103

Office Hours: M: 8:00am-9:00pm; 11:00am-12:00pm; 2:00pm-3:00pm
W: 8:00am-9:00pm; 10:00am-12:30; 2:00pm-3:00pm
TR: 8:00am-9:00am; 10:00am-11:00am; 12:30pm-3:00pm
F: 8:00am-9:00pm; 10:00am-12:30



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

3 Semester Credit Hours (3 hours lecture, 1 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.

Approved: **Initials/date**

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.

REQUIRED TEXTBOOK AND MATERIALS

1. MyMathLab Standalone Access Code
 - a. May be purchased online at www.mymathlab.com
 - b. May be purchased at a local bookstore: **ISBN 032119991X**
2. Approved recommended calculators by individual course instructor.

ATTENDANCE POLICY

Face to face classes: you are expected to attend every class. Failure to attend may result in being dropped or loss of credit (failing the course), with or without warning.

Online classes; do not attend class but are expected to login to blackboard at least twice a week and complete assignments prior to due date. Failure to complete assignments prior to due date may result in loss of credit. Late work may not be accepted.

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.

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**Assignment Schedule (subject to change with or without notice)**

Week of	Homework Assignments	MML
1/17	Course syllabus	
	Orientation	
	Module 1: Part 1: Standard Notation, Order, Rounding	
1/22	Module 1: Part 2: Applications and Problem Solving	
	Module 1: Part 3: Exponential Notation; Order of Operations, Part 4: Rules of Divisibility	
	Module 1: Part 5: Prime vs. Composite; Prime Factorization	
1/29	Module 1: Part 6: Greatest Common Factor and Least Common Multiple	
	Module 2: Part 1: Fraction Notation and Simplifying	
	Module 2: Part 2: Multiplication and Division	
2/5	Module 2: Part 3: Order; Addition and Subtraction	
	Module 2: Part 4 Mixed Numerals	
	Module 2: Part 5: Applications and Problem Solving	
	Module 2: Part 6/7 Order of Operations Fractions/Probability	
2/12	Test 1 Modules 1 , 2	
	Module 3: Part 1: Decimal Notation; Order	
	Module 3: Part 2: Rounding	
2/19	Module 3: Part 3: Order of Operations	
	Module 3: Part 4: Fraction Notation; Decimal Notation	
	Module 3: Part 5: Applications and Problem Solving	
2/26	Test 2 Module 3	
	Module 4: Part 1: Ratio and Proportion	
	Module 4: Part 2: Percent, Decimal, and Fraction Notation	
3/4	Module 4: Part 3: Solving Percent Problems	
	Module 4: Part 4: Applications of Percent	
	Module 4: Part 5: Simple Interest, Sales Tax, Commission and Discount	
3/11-15	Spring Break	
3/18	Test 3 Module 4	
	Module 5: Part 1: Measures of Central Tendency(Mean, Median and Mode)	
	Module 7: Part 1:The Real Numbers	
3/25	Module 7: Part 2: Addition and Subtraction of Real Numbers	
	Module 7: Part 4: Multiplication and Division of Real Numbers	
	Module 7: Part 6: Order of Operations	

4/1	Module 7: Part 7: Writing Algebraic Expressions	
	Module 7: Part 8: Distributive Property	
	Module 7: Part 9/10: Combining Like Terms/ Simplifying Expressions	
4/8	Test 4 Module 5 & 7	
	Module 8: Part 1 One Step Equations (Addition/Subtraction)	
4/15	Module 8: Part 2 One Step Equations (Multiplication/Division)	
	Module 8: Part 3 Solving Equations (Real numbers)	
	Module 8: Part 4 Solving Multi Step Equations	
4/22	Module 8: Applications	
4/29	Review/Make-up	
5/5	Final Exam	

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

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Test	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 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

Course Expectations

Instructor Expectations from Students:

- Weekly email communication regarding assignment and upcoming test due dates
- Response to email/remind text within 24 (same day if received before 2:30pm M-Th or before noon Friday)
- Flexible office hours/ virtual help when needed.
- Weekly grade updates
- Extra credit opportunities

Professor Expectations of Students:

- **Join remind for text communication. (Directions found on Blackboard)**
- **Seek help from instructor early and often, do not wait until the last minute!**
- **Plan ahead; if you will miss an exam, make prior arrangements to take it early or schedule a make-up date at instructors' convenience**
- **When sending emails identify yourself with class and section**
- **Participate in class lecture/discussions.**