BASE NCBO (Mathematics) TMTH 174 – 3B1

CREDIT
1 Semester Credit Hour (1 hour lab)

MODE OF INSTRUCTION
Face to Face

PREREQUISITE/CO-REQUISITE:
Must be co-enrolled in TMTH 0174 BASE NCBO (Mathematics).
All students enrolled in TMTH 374-3B1 must be enrolled in TMTH 174-3B1.

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.

INSTRUCTOR CONTACT INFORMATION

Instructor: Bradd Henry

Email: brhenry@lit.edu

Office Phone: (409) 247-4924

Office Location: Technology Center building, room 236

Office Hours: Monday: 11:00-12:00 am, 1:00-1:45 pm, 3:00-3:30 pm, 4:30-5:30 pm
Tuesday: 10:30-11:00 am, 4:30-5:30 pm
Wednesday: 10:00-11:00 am, 3:00-3:30 pm
Thursday: 10:30-11:00 am, 12:15-12:30 pm, 4:30-5:30 pm
Friday: 10:00-11:30 pm

Approved: Initials/date

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
Attendance is required. A sign-in sheet will be available at the beginning of each class period. These sign-in sheets will be referenced for any disagreements about attendance, so be sure to sign in.

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
Assignment Schedule (subject to change with or without notice)

Week of	Homework Assignments	MML
week 1	**Course syllabus** **Orientation**	
week 1	**Module 1: Part 1: Standard Notation, Order, Rounding**	
week 1	**Module 1: Part 2: Applications and Problem Solving**	
week 1	**Module 1: Part 3: Exponential Notation; Order of Operations, Part 4: Rules of Divisibility**	
week 1	**Module 1: Part 5: Prime vs. Composite; Prime Factorization**	
week 1	**Module 1: Part 6: Greatest Common Factor and Least Common Multiple**	
week 2	**Module 2: Part 1: Fraction Notation and Simplifying**	
week 2	**Module 2: Part 2: Multiplication and Division**	
week 2	**Module 2: Part 3: Order; Addition and Subtraction**	
week 2	**Module 2: Part 4 Mixed Numerals**	
week 2	**Module 2: Part 5: Applications and Problem Solving**	
week 3	**Module 2: Part 6/7 Order of Operations Fractions/Probability**	
week 3	**Test 1 Modules 1 , 2**	

week 3	**Module 3: Part 1: Decimal Notation; Order**	
week 3	**Module 3: Part 2: Rounding**	
week 4	**Module 3: Part 3: Order of Operations**	
week 4	**Module 3: Part 4: Fraction Notation; Decimal Notation**	
week 4	**Module 3: Part 5: Applications and Problem Solving**	
week 5	**Test 2 Module 3**	
week 5	**Module 4: Part 1: Ratio and Proportion**	
week 6	**Module 4: Part 2: Percent, Decimal, and Fraction Notation**	
week 6	**Module 4: Part 3: Solving Percent Problems**	
week 7	**Module 4: Part 4: Applications of Percent**	
week 7	**Module 4: Part 5: Simple Interest, Sales Tax, Commission and Discount**	
week 7	**Spring Break**	
	Test 3 Module 4	
week 8	**Module 5: Part 1: Measures of Central Tendency(Mean, Median and Mode)**	
week 8	**Module 7: Part 1:The Real Numbers**	
week 9	**Module 7: Part 2: Addition and Subtraction of Real Numbers**	
week 9	**Module 7: Part 4: Multiplication and Division of Real Numbers**	
week 10	**Module 7: Part 6: Order of Operations**	
week 10	**Module 7: Part 7: Writing Algebraic Expressions**	
week 12	**Module 7: Part 8: Distributive Property**	
week 12	**Module 7: Part 9/10: Combining Like Terms/ Simplifying Expressions**	
week 13	**Test 4 Module 5 & 7**	
week 13	**Module 8: Part 1 One Step Equations (Addition/Subtraction)**	

week 13	**Module 8: Part 2 One Step Equations (Multiplication/Division)**	
week 13	**Module 8: Part 3 Solving Equations (Real numbers**	
week 14	**Module 8: Part 4 Solving Multi Step Equations**	
week 14	**Module 8: Applications**	
week 15	**Review/Make-up**	
May 11	**Final Exam**	

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Daily grade consisting of the following:

- Attendance for the entire duration of each class session
  AND
- MyMathLab participation for the entire duration of each class session.

GRADE SCALE

    70-100   **SATISFACTORY**

    0-69   **UNSATISFACTORY**

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).

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. A final grade of Incomplete will only be given if a student is passing the course and is missing only one major assignment. Such an arrangement must be made with the instructor. An incomplete assignment must be finished during the next long semester or a grade of "I" will become an "F."
2. No food, drinks, or use of tobacco products in class.
3. Telephones must be turned off during class.
4. Phone calculators are **not** allowed to be used during tests.
5. Tests will be taken in class, on classroom desktop computers.