

BASE NCBO (TMTH 174 section 3D1)

CREDIT : 1 Semester Credit Hours (0 hours lecture, 1 hour lab)

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

- REQUIRED for students scoring a Level 3 ABE or a Level 4 ABE on the TSI-Assessment.
- RECOMMENDED for students scoring a Level 5 ABE or Level 6 ABE on the TSI-Assessment.

Must be co-enrolled in TMTH 0374 Developmental Mathematics

TMTH 0174 is the co-requisite to TMTH 374.

All students enrolled in TMTH 174-3D1 must be enrolled in TMTH 374-3D1.

COURSE DESCRIPTION

This BASE NCBO 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.

This course must be taken concurrently with TMTH 0374-3D1 (Development Mathematics). It will serve to provide additional time for the student to receive one-on-one support. Intervention will be provided by the instructor of record.

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



**LAMAR INSTITUTE
OF TECHNOLOGY**

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: 10:00-11:00 am, 3:00-3:30 pm, 4:30-5:30 pm
Tuesday: 10:00-11:00 am, 1:30-2:00 pm, 5:00-5:30 pm
Wednesday: 10:00-11:00 am, 4:00-4:30 pm
Thursday: 10:00-11:00 am, 12:30-1:00 pm, 5:00-5:30 pm
Friday: 10:00-12:00 pm

REQUIRED TEXTBOOK AND MATERIALS

1. MyMathLab access code.
2. Basic 6 function calculator recommended. No graphing calculators.
Phone calculators are not allowed during tests.

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 a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE CALENDAR

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
Week 1	introduction and Classroom Policies		

Week 2	Chapter 2 basics of Set Theory		
Week 3	Chapter 2 basics of Set Theory		
Week 4	Chapter 3 introduction to Logic		
Week 5	Chapter 3 introduction to Logic		
Week 6	Chapter 5 Prime numbers, greatest common factor and least common denominator		
Week 7	Chapter 6 operations with Real numbers, percent		
Week 8	Chapter 7 introduction to Algebra		
Week 9	Chapter 7 Ratio and Proportions		
Week 10	Chapter 10 Fundamental Counting Principle, using permutations and combinations		
Week 11	Chapter 10 Fundamental Counting Principle, using permutations and combinations		
Week 12	Chapter 11 Probability with real-world applications		

Week 13	Chapter 12 Statistics (mean, median, and mode) and visual displays of data		
Week 14	Chapter 13 Time Value of Money simple and compound interest, revolving loans and APR		

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

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.

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 as the final exam. 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 and other electronic devices must be turned off during class.