

BASE NCBO (TMTH 174 section 8C1)

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: 10:30-11:00 am, 12:00-12:30 pm, 1:45-2:45 pm
Tuesday: 10:00-11:00 am, 1:30-3:00 pm, 4:30-5:30 pm, 6:45-7:15 pm
Wednesday: 9:30-10:30 am, 11:30-12:30 pm, 1:45-2:45 pm
Thursday: 10:00-11:00 am, 12:15-1:45 pm, 4:30-5:30 pm
Friday: 10:30- 12:00 pm

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.

REQUIRED TEXTBOOK AND MATERIALS

1. MyMathLab access code.
2. Basic 6 function calculator recommended.

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 section 3B1 (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.

Approved: **Initials/date**



**LAMAR INSTITUTE
OF TECHNOLOGY**

COURSE OBJECTIVES

Upon successful completion of this course, students will:

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 mathematical models in verbal, algebraic, graphical, and tabular form to solve problems from a variety of contexts and to make predictions and decisions.

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 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 OUTLINE

Since this course is to be taken concurrently with TMTH 374 – 3B1, for the course outline, please refer to the Master Syllabus for TMTH 374.

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

90-100 **SATISFACTORY**

0-89 **UNSATISFACTORY**

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

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. Laptops, telephones, and any other electronic devices must be turned off during class.