# Base NCBO Mathematics (TMTH 0174-2A2) Online

### INSTRUCTOR CONTACT INFORMATION

Instructor: Alfred de la Rosa, Jr.

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Office Phone: (409) 247-4757

Office Location: Building TA5, Room 103

Office Hours: Monday: 9:00 am-12:00 pm; 2:00 pm-2:30 pm

Tuesday: 9:00 am-9:30 am, 12:30 pm-2:30 pm Wednesday: 9:00 am-10:00 am, 11:30 am-12:00 pm Thursday: 9:00 am-9:30 am, 12:30 pm-2:30 pm

Friday: 9:00 am-2:00 pm



1 Semester Credit Hour (1 hour lecture)

### **MODE OF INSTRUCTION**

Online

# PREREQUISITE/CO-REQUISITE:

Must be co-enrolled in TMTH 0374 (Developmental Mathematics)

### **COURSE DESCRIPTION**

The 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.

## **COURSE OBJECTIVES**

Upon completion of this course, in conjunction with completion of TMTH 0374, 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.

Approved: Initials/date



### REQUIRED TEXTBOOK AND MATERIALS

- 1. A Pearson MyMathLab standalone access code
  - NOTE: Once the code for TMTH 0374 is purchased, no additional code is necessary for TMTH 0174.
    - Once students have access to this class in Blackboard, they will be able to access the Pearson website and purchase a code online directly from Pearson.
       OR
    - May be purchased at a local bookstore:
       18-Week Standalone Access Card: ISBN 9780135910269 or
       24-Week Standalone Access Card: ISBN 9780135189962
- 2. Basic six-function calculator--no scientific or graphing calculators or calculators on cell phones, tablets, etc., are permitted.

### ATTENDANCE POLICY

Since this course is taught online, it takes a lot of discipline and self-starting qualities to complete and pass it. Therefore, it is necessary to keep up with assignments by working on them daily, if needed, in order to meet deadlines and not fall behind. It is also very important for students to check for email and announcements from their instructor. Students should check for these daily so that they are up-to-date on information about the course regarding assignments, tests, etc.

### **DROP POLICY**

If you wish to drop the course (if eligible), you are responsible for initiating and completing the drop process by the specified drop date as listed on the <u>Academic Calendar</u>. If you stop completing assignments in your online course and fail to drop, you will earn an "U" in this 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**

| DATE    | TOPIC   | READINGS  | ASSIGNMENTS   |
|---------|---|---|---|
| DATE    | TOPIC   | (Due on this Date)                                    | (Due on this Date)  |
| 8-21-23 | Module 1 Part 1: Notation, Order, Rounding Part 2: Applications and Problem Solving Part 3: Exponential Notation; Order of Operations Part 4: Factors vs. Multiples Part 5: Prime vs. Composite; Prime Factorization Part 6: Greatest Common Factor and Least Common Multiple Practice Test | Module 1 Worksheets<br><b>Monday, August 21, 2023</b> | MyMathLab: Module 1,<br>Parts 1-6<br><b>Friday, September 1, 2023</b> |
| 9-2-23  | Module 2 Part 1: Fraction Notation and Simplifying Part 2: Multiplication and Division Part 3: Order; Addition and Subtraction Part 4: Mixed Numerals Part 5: Applications and Problem Solving Part 6: Order of Operations Part 7: Simple Probability                                       | Module 2 Worksheets Saturday, September 2, 2023       | MyMathLab: Module 2,<br>Parts 1-7<br><b>Friday, September 8, 2023</b> |
| 9-9-23  | Module 3 Part 1: Decimal Notation; Order Part 2: Rounding Part 3: Order of Operations Part 4: Fraction Notation; Decimal Notation Part 5: Applications and Problem Solving  | Module 3 Worksheets Saturday, September 9, 2023       | MyMathLab: Module 3,<br>Parts 1-5<br>Friday, September 15, 2023       |
| 9-16-23 | Module 4 Part 1: Ratio and Proportion Part 2: Percent, Decimal, and Fraction Notation   | Module 4 Worksheets Saturday, September 16, 2023      | MyMathLab: Module 4,<br>Parts 1-5<br>Friday, September 22, 2023       |

| 9-23-23 | Part 3: Solving Percent Problems Part 4: Applications of Percent Part 5: Simple Interest Module 5 Part 1: Measures of Central Tendency Part 2: Interpreting Data from Tables and Graphs Part 3: Interpreting and Drawing Bar Graphs and Line Graphs Part 4: Interpreting and Drawing Circle Graphs  | Module 5 Worksheets Saturday, September 23, 2023 | MyMathLab: Module 5,<br>Parts 1-4<br>Friday, September 29, 2023      |
|---------|---|--|--|
| 9-30-23 | Module 7 Part 1: The Real Numbers Part 2: Addition and Subtraction of Real Numbers Part 3: Applications Involving Addition and Subtraction of Real Numbers Part 4: Multiplication and Division of Real Numbers Part 5: Applications Involving Multiplication and Division of Real Numbers Part 6: Order of Operations Part 7: Introduction to Algebra Part 8: Properties of Real Numbers Part 9: Algebraic Expressions Part 10: Simplifying Algebraic Expressions | Module 7 Worksheets Saturday, September 30, 2023 | MyMathLab: Module 7,<br>Parts 1-10<br><b>Friday, October 6, 2023</b> |
| 10-7-23 | Module 8 Part 1: Solving One-Step Equations with Addition or Subtraction Part 2: Solving One-Step Equations with Multiplication or Division Part 3: Solving Multi-Step Equations  | Module 8 Worksheets<br>Saturday, October 7, 2023 | MyMathLab: Module 8,<br>Parts 1-5<br><b>Friday, October 13, 2023</b> |

| Part 4: Solving More Multi- |  |
|-----------------------------|--|
| Step Equations              |  |
| Part 5: Applications        |  |

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

- If a final class grade of DA, DB, or DC is earned in TMTH 0374, then a grade of S (Satisfactory) will be earned in TMTH 0174.
- If a final class grade of DF is earned in TMTH 0374, then a grade of U (Unsatisfactory) will be earned in TMTH 0174.

# **GRADE SCALE**

70-100 S--Satisfactory0-69 U--Unsatisfactory

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 <a href="https://lit.edu/online-learning/online-learning-minimum-computer-requirements">https://lit.edu/online-learning/online-learning-minimum-computer-requirements</a>. 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 <a href="mailto:specialpopulations@lit.edu">specialpopulations@lit.edu</a>. You may also visit the online resource at <a href="mailto:specialpopulations">Specialpopulations</a>. 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 <a href="https://www.lit.edu">www.lit.edu</a>. 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. The student must purchase all required course materials.
- 2. The student will be expected to have access to the internet and a computer.
- 3. Blackboard logon and access to course a minimum of four times per week.