

Contemporary Math (MATH 1332-3B1)

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



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

3 Semester Credit Hours (3 hours lecture, 0 hours lab)

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

A score of 950 or above on the TSI Assessment placement test or a "C" or better in TMTH 0374.

COURSE DESCRIPTION

Intended for non-STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability, and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to

1. Apply the language and notation of sets.
2. Determine the validity of an argument or statement and provide mathematical evidence.
3. Solve problems in mathematics of finance.
4. Demonstrate fundamental probability/counting techniques and apply those techniques to solve problems.
5. Interpret and analyze various representations of data.
6. Demonstrate the ability to choose and analyze mathematical models to solve problems from real-world settings, including, but not limited to, personal finance, health literacy, and civic engagement.

Approved: **Initials/date**

CORE OBJECTIVES

1. Critical Thinking Skills: To include creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information.
2. Communication Skills: To include effective development, interpretation, and expression of ideas through written, oral, and visual communication.
3. Empirical and Quantitative Skills: To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

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 9780135910269 (18-week access) or
ISBN 9780135189962 (24-month access)
2. Basic six-function calculator--no scientific or graphing calculators or calculators on cell phones, tablets, etc., are permitted.

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 CALENDAR

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
8-22-23	Course Policies and Introductions; MyMathLab Orientation and Registration Section 2.1: Symbols and Terminology	Course Policies and Introductions; MyMathLab Orientation and Registration Section 2.1 Notes Tuesday, August 22, 2023	MyMathLab, Section 2.1 Monday, August 28, 2023
8-29-23	Section 2.2: Venn Diagrams and Subsets Section 2.3: Set Operations and Cartesian Products	Section 2.2 Notes Section 2.3 Notes Tuesday, August 29, 2023	MyMathLab, Section 2.2 MyMathLab, Section 2.2 Monday, September 4, 2023
9-5-23	Section 2.4: Surveys and Cardinal Numbers Section 5.1: Prime and Composite Numbers	Section 2.4 Notes Section 5.1 Notes Tuesday, September 5, 2023	MyMathLab, Section 2.4 MyMathLab, Section 5.1 Monday, September 11, 2023
9-12-23	Section 5.4: Greatest Common Factor and Least Common Multiple	Section 5.4 Notes Tuesday, September 12, 2023	MyMathLab, Section 5.4 Monday, September 18, 2023
9-19-23	Section 3.1: Statements and Quantifiers Section 3.2: Truth Tables and Equivalent Statements	Section 3.1 Notes Section 3.2 Notes Tuesday, September 19, 2023	MyMathLab, Section 3.1 MyMathLab, Section 3.2 Monday, September 25, 2023
9-26-23	Section 3.3: The Conditional and Circuits Section 3.4: The Conditional and Related Statements	Section 3.3 Notes Section 3.4 Notes Tuesday, September 26, 2023	MyMathLab, Section 3.3 MyMathLab, Section 3.4 Monday, October 2, 2023
10-3-23	Section 3.6: Analyzing Arguments with Truth Tables	Section 3.6 Notes Tuesday, October 3, 2023	MyMathLab, Section 3.6 Monday, October 9, 2023

10-10-23	Section 6.1: Real Numbers, Order, and Absolute Value Section 6.2: Operations, Properties, and Applications of Real Numbers	Section 6.1 Notes Section 6.2 Notes Tuesday, October 10, 2023	MyMathLab, Section 6.1 MyMathLab, Section 6.2 Monday, October 16, 2023
10-17-23	Section 6.3: Rational Numbers and Decimal Representation Section 6.4: Irrational Numbers and Decimal Representation	Section 6.3 Notes Section 6.4 Notes Tuesday, October 17, 2023	MyMathLab, Section 6.3 MyMathLab, Section 6.4 Monday, October 23, 2023
10-24-23	Section 6.5: Applications of Decimals and Percents	Section 6.5 Notes Tuesday, October 24, 2023	MyMathLab, Section 6.5 Monday, October 30, 2023
10-31-23	Section 7.3: Ratio, Proportion, and Variation Section 10.2: Using the Fundamental Counting Principle	Section 7.3 Notes Section 10.2 Notes Tuesday, October 31, 2023	MyMathLab, Section 7.3 MyMathLab, Section 10.2 Monday, November 6, 2023
11-7-23	Section 10.3: Using Permutations and Combinations Section 11.1: Probability—Basic Concepts	Section 10.3 Notes Section 11.1 Notes Tuesday, November 7, 2023	MyMathLab, Section 10.3 MyMathLab, Section 11.1 Monday, November 13, 2023
11-14-23	Section 11.2: Events Involving “Not” and “Or” Section 11.3: Conditional Probability; Events Involving “And”	Section 11.2 Notes Section 11.3 Notes Tuesday, November 14, 2023	MyMathLab, Section 11.2 MyMathLab, Section 11.3 Monday, November 20, 2023
11-21-23	Section 12.1: Visual Displays of Data Section 12.2: Measures of Central Tendency	Section 12.1 Notes Section 12.2 Notes Tuesday, November 21, 2023	MyMathLab, Section 12.1 MyMathLab, Section 12.2 Monday, November 27, 2023

11-28-23	Section 13.1: The Time Value of Money Section 13.2: Consumer Credit Section 15.3: The Possibilities of Apportionment	Section 13.1 Notes Section 13.2 Notes Section 15.3 Notes Tuesday, November 28, 2023	MyMathLab, Section 13.1 MyMathLab, Section 13.2 MyMathLab, Section 15.3 Sunday, December 3, 2023
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COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Unit Exams 60%
- Course Assignments 20%
- Attendance 10%
- Comprehensive Final Exam 10%

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

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

1. The student will be expected to have access to the internet and a computer.
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.
4. 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."