

Contemporary Mathematics (MATH 1332)

CREDIT

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

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

TSI Complete for Math

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. *This course is time-bound, structured, and online.*

COURSE OBJECTIVES

Upon successful completion of this course, students will:

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.

CORE OBJECTIVES MEASURED

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.

Approved: Approved: **Approved: Initials/date**



**LAMAR INSTITUTE
OF TECHNOLOGY**

INSTRUCTOR CONTACT INFORMATION

Instructor: Daniel Dove

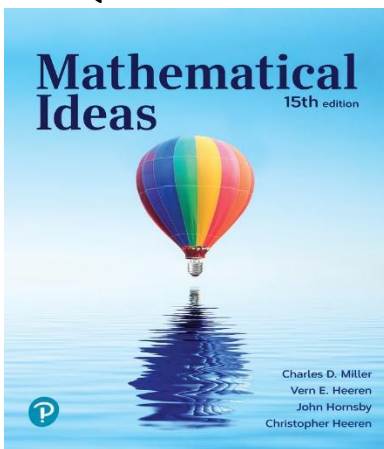
Email: dadove@lit.edu (preferred contact method, use your LIT email!)

Office Phone: (409) 247-5017

Office Location: TC 112 A

Office Hours: By appointment only. Face-to-face or online meetings available.

REQUIRED TEXTBOOK AND MATERIALS



18-week access MyLab Math with Pearson eText (18 Weeks)
ISBN-13: 9780138051358 (\$90 plus tax)

24-month access MyLab Math with Pearson eText (24 Months)
ISBN-13: 9780138051303 (\$150 plus tax)

(Comes inclusive with ELE bundle for \$42)

2. Calculator of your choice, computer with internet access,
webcam/microphone.

Figure 1 Course Textbook image

ATTENDANCE POLICY

Attendance is required, online students should login and work on assignments 3-4 times per week, minimum.

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 (Dates and assignments subject to change with or without notice)

Week of	Section	Title	Assignment
Jul. 8		Syllabus / Introduction to My Math Lab	Online through My Lab Math
	2.1	Set Notation	
	2.2	Subsets and Venn Diagrams	
	2.3	Operations with Sets	
	2.4	Problem Solving with Venn Diagrams	
Jul. 13	3.1	Logic Statements and Quantifiers	
	3.2	Truth Tables	
	3.3	The Conditional	
	3.4	Conditional and Related Statements	
Jul. 20		Test I Chapters 2 & 3	Ch. 2 & 3 Assignments
	5.1	Prime and Composite Numbers	
	5.4	GCF and LCM	
	6.1	Real Numbers, Order, and Absolute Value	
	6.2	Operations and Properties	
	6.3	Rational Numbers and Decimals	
	6.4	Irrational Numbers	
	6.5	Applications of Decimals and Percent's	
Jul. 27		Test II Chapters 5 & 6	Ch. 5 & 6 Assignments
	7.3	Ratio, Proportions, and Variation	
	10.2	Fundamental Counting Principal	
	10.3	Permutations and Combinations	
Aug. 3	11.1	Basic Concepts	
	11.2	Probability Involving (or)	
	11.3	Probability Involving (and)	
		Core Assessment	
Aug. 10		Test III Chapters 7, 10 & 11	Ch. 7, 10, & 11 Assignments
	12.1	Frequency Distributions	
	12.2	Mean Median and Mode	
	13.1	Simple Interest	
	13.2	Consumer Credit	
		Final Exam Opens Aug. 13, Closes Aug. 14	Chapter 12, 13 Assignments

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- | | |
|-------------------|-----|
| • Test | 60% |
| • Assignments | 20% |
| • Core Assessment | 20% |

GRADE SCALE

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

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

Student Expectations of Instructor:

- Weekly email communication regarding assignment and upcoming test due dates
- Response to email within 24 hours.
- Flexible office hour/ virtual help when needed.
- Weekly grade updates

Instructor Expectations of Students

- **Seek help from instructor early and often, do not wait until the last minute!**
- **The student will be expected to have access to the internet and their own computer.**

- **A webcam and microphone are required for submitting online tests. This means that each student will be recorded while taking his or her exams. Any student violating testing policies during an exam will receive a grade of 0 on the exam.**
- **On exams, all of your work should be completely your own. You are allowed scratch paper, a pencil, and your calculator. On the Core Assignment, no AI may be used and all work should be completely your own. Any evidence of cheating could result in a zero on that particular exam or the Core Assignment. Repeated offenses will cause you to fail the course.**
- **Plan ahead; if you will miss an exam, make prior arrangements to take it early or schedule a make-up date at instructors' convenience. If you have missed an exam, contact instructor as soon as possible to schedule a makeup exam. You have one day to schedule a makeup test and within 2 business days to complete the exam. If you wait longer than that to schedule and take the makeup exam, you will receive a zero on that exam! I reserve the right to make exceptions to this policy based on extenuating circumstances with documentation.**
- **When sending emails, please identify yourself with class and section.**