Contemporary Mathematics (MATH 1332 – 3C1)

CREDIT

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

MODE OF INSTRUCTION Face to face.

PREREQUISITE/CO-REQUISITE:
TSI Complete in Mathematics or have passed TMTH 374 with a "C"
or better.

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: Initials/date

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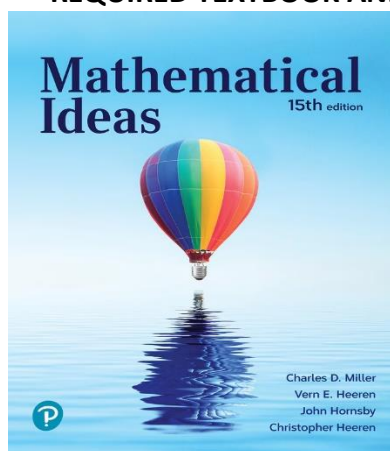   Tuesday: 10:30-11:00 am, 4:30-5:30 pm
                Wednesday: 10:00-11:00 am, 3:00-3:30 pm
                Thursday: 10:30-11:00 am, 12:15-12:30 pm, 4:30-5:30 pm
                Friday: 10:00-11:30 pm

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. (Ask instructor for available resources)

Figure 1 Course Textbook image

ATTENDANCE POLICY

Attendance is required. A sign-in sheet will be available at the beginning of each class period. These sign-in sheets will be referenced for any disagreements about attendance, so be sure to sign in.

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
		MLK – Monday no class Syllabus / Introduction to Hawkes	Online through Mymathlab
week 1	2.1	Set Notation	
week 1	2.2	Subsets and Venn Diagrams	
week 2	2.3	Operations with Sets	
week 2	2.4	Problem Solving with Venn Diagrams	
week 3	3.1	Logic Statements and Quantifiers	
week 3	3.2	Truth Tables	
week 4	3.3	The Conditional	
week 4	3.4	Conditional and Related Statements	
week 5		Test I Chapters 2 & 3	
week 5	5.1	Prime and Composite Numbers	
week 5	5.4	GCF and LCM	
week 6	6.1	Real Numbers, Order, and Absolute Value	
week 6	6.2	Operations and Properties	
week 6	6.3	Rational Numbers and Decimals	
week 6	6.4	Irrational Numbers	
		Spring Break No Class	
week 7	6.5	Applications of Decimals and Percent's	
week 8		Test II Chapters 5 & 6	
week 8	7.3	Ratio, Proportions, and Variation	
week 8	10.2	Fundamental Counting Principal	
week 8	10.3	Permutations and Combinations	

week 9		Test III Chapters 7 , 10 , & 11	
week 9	11.1	Basic Concepts	
week 9	11.2	Probability Involving (or)	
week 10	11.3	Probability Involving (and)	
week 11		**Core Assessment** **Good Friday (Campus Closed)**	
week 12	12.1	Frequency Distributions	
week 12	12.2	Mean Median and Mode	
week 13	13.1	Simple Interest	
week 13	13.2	Consumer Credit	
week 14		Test IV Chapters 12 , 13	
May 11		Final exam	

COURSE EVALUATION
Final grades will be calculated according to the following criteria:
- Tests   (average of 4 tests and final exam)   60%
- Assignments   (MyMathLab homework)   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

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 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 must be turned off during class.
4. Phone calculators are **<u>not</u>** allowed to be used during tests.
5. Tests will be taken in class, on classroom desktop computers.