

Instructor Information

Instructor	Jake Meadows
Email	meadowsj@lamarpa.edu
Phone	(409) 984-6419
Office	Student Center - Room: 403
Office Hours	Monday & Wednesday: 9:30 AM - 10:50 AM & 1:20 PM - 2:00 PM Tuesday & Thursday: 12:30 PM - 2:00 PM Friday: 12:00 PM - 3:00 PM Other times by appointment.
Additional Contact Information	Please email me from your @lamarpa.edu email address or else I may not receive your email.

Course Information

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.
Required Textbooks	<i>Textbook Purchasing Statement: A student attending Lamar State College Port Arthur is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.</i> Contemporary Mathematics by Donna Kirk, OpenStax, 2023. This is an open-source textbook, available for free here: https://openstax.org/details/books/contemporary-mathematics .
Additional Materials/Resources	No additional materials are required.
Corequisites/Prerequisites	MATH-0332 Intermediate Algebra "> MATH-0332 Intermediate Algebra
Learning Outcomes	<u>Upon successful completion of this course, students will:</u> 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	<u>Communication skills:</u> Students will demonstrate effective written, oral and/or visual communication. <u>Critical Thinking Skills:</u> Students will engage in creative and/or innovative thinking, and/or inquiry, analysis, evaluation, synthesis of information, organizing concepts and constructing solutions. <u>Empirical and Quantitative Skills:</u> Students will demonstrate applications of scientific and mathematical concepts.
Lecture Topics Outline	Chapter 1 Sets • Introduction • 1.1 Basic Set Concepts • 1.2 Subsets • 1.3 Understanding Venn Diagrams • 1.4 Set Operations with Two Sets • 1.5 Set Operations with Three Sets Chapter 2 Logic • Introduction • 2.1 Statements and Quantifiers • 2.2 Compound Statements • 2.3 Constructing Truth Tables • 2.4 Truth Tables for the Conditional and Biconditional • 2.5 Equivalent Statements • 2.6 De Morgan's Laws • 2.7 Logical Arguments Chapter 6 Money Management • Introduction • 6.1 Understanding Percent

- 6.2 [Discounts, Markups, and Sales Tax](#)
- 6.3 [Simple Interest](#)
- 6.4 [Compound Interest](#)
- 6.6 [Methods of Savings](#)

Chapter 8 Statistics

- [Introduction](#)
- 8.1 [Gathering and Organizing Data](#)
- 8.2 [Visualizing Data](#)
- 8.3 [Mean, Median and Mode](#)
- 8.4 [Range and Standard Deviation](#)

Chapter 7A Counting

- [Introduction](#)
- 7.1 [The Multiplication Rule for Counting](#)
- 7.2 [Permutations](#)
- 7.3 [Combinations](#)

Chapter 7B Probability

- 7.4 [Tree Diagrams, Tables, and Outcomes](#)
- 7.5 [Basic Concepts of Probability](#)
- 7.6 [Probability with Permutations and Combinations](#)
- 7.8 [The Addition Rule for Probability](#)
- 7.9 [Conditional Probability and the Multiplication Rule](#)
- 7.11 [Expected Value](#)

Major Assignments Schedule

See Blackboard for course schedule.

Final Exam Date

December 8, 2025 - 8:10 AM

Grading Scale

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

Determination of Final Grade

Attendance - 10%
Homework - 15%
Quizzes - 15%
Exam 1 - 20%
Exam 2 - 20%
Exam 3 - 20%

Course Policies

Instructor Policies

Homework:

Each section of the text is accompanied by a related homework assignment. Homework assignments will be available on Blackboard through an open-source software called My Open Math. Unlike many homework programs used by colleges and universities, My Open Math is 100% free and does not require you to create an account to use. You may access your homework at any time through Blackboard. It is your responsibility to check Blackboard for available assignments and to complete them in a timely manner. Due dates will always be made explicit in Blackboard and you will be notified via announcement and email if any are adjusted. Homework assignments will account for 15% of your final grade.

Quizzes:

Each chapter of the text is accompanied by one or more quizzes. As with homework assignments, these quizzes will be available on Blackboard. As before, it is your responsibility to stay up to date with quizzes and their due dates. Your lowest quiz score will be dropped at the end of the semester when calculating your final grade. Your quiz average will account for 15% of your final grade.

Exams:

There will be two mid-term exams scheduled at regular intervals throughout the semester. Each of the mid-term exams will count as 20% of your final grade. There will also be a comprehensive final exam at the end of the semester which will also count as 20% of your final grade. There will be no make-ups or extensions for the exams. I will replace your lowest mid-term exam score with whatever score you make on the final exam (including grades of zero for missed exams), if this improves your overall score.

Final Exam (Optional):

There will be an optional comprehensive final exam offered for any students who wish to take it. The final exam can be used to replace the lowest of your 3 exam grades, including a score of zero due to a missed exam.

Attendance Policy	While attendance is important for success in any classroom, attendance with active participation is crucial for success in a mathematics course. As such, students will be expected to attend all class meetings, for the full duration. Students will be expected to arrive to class prepared and to engage in class activities when appropriate. Attendance will account for 10% of the student's final grade in the course. Attendance will be recorded at the beginning of each class period. Each student may have at most 2 unexcused absences before their grade is affected. Absences may only be excused at the instructor's discretion and may only be accepted if the instructor is notified prior to the missed class. You are responsible for missed material which was covered when you are absent. Please visit me during my office hours or contact me through your LSCPA email account if you need any help.
Additional Information	This syllabus may be updated at any time during the semester. Any such change will be announced in class and/or through Blackboard and email. If you ever have questions about the syllabus, please feel free to ask me.
Institutional Policies	
MyLSCPA	Be sure to check your campus email and Course Homepage using MyLSCPA campus web portal. You can also access your grades, transcripts, academic advisors, degree progress, and other services through MyLSCPA.
Academic Honesty	Academic honesty is expected from all students, and dishonesty in any form will not be tolerated. Please consult the LSCPA policies (Academic Dishonesty section in the Student Handbook) for consequences of academic dishonesty.
ADA Considerations	The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services Coordinator, Room 117, in the Student Success Center. The phone number is (409) 984-6241.
COVID 19 Information	The Lamar State College Port Arthur (LSCPA) Student Code of Conduct COVID 19 Policy requires students who have been diagnosed with COVID 19 to report their condition directly to their local health department. Students should also contact their course faculty to report their quarantine status. In addition, this policy requires all students to wear face coverings when directly exposed to COVID 19 in compliance with the criteria included in the policy. For more information please refer to the COVID 19 link on the LSCPA website.
Facility Policies	No food or tobacco products are allowed in the classroom. Only students enrolled in the course are allowed in the classroom, except by special instructor permission. Use of electronic devices is prohibited.
HB 2504	This syllabus is part of LSCPA's efforts to comply with Texas House Bill 2504.
Mandatory Reporting of Child Abuse and Neglect	As per Texas law and LSCPA policy, all LSCPA employees, including faculty, are required to report allegations or disclosures of child abuse or neglect to the designated authorities, which may include a local or state law enforcement agency or the Texas Department of Family Protective Services. For more information about mandatory reporting requirements, see LSCPA's Policy and Procedure Manual.
Title IX and Sexual Misconduct	LSCPA is committed to establishing and maintaining an environment that is free from all forms of sex discrimination, including sexual harassment, sexual violence, and other forms of sexual misconduct. All LSCPA employees, including faculty, have the responsibility to report disclosures of sexual misconduct, including sexual harassment, sexual assault (including rape and acquaintance rape), domestic violence, dating violence, relationship violence, or stalking, to LSCPA's Title IX Coordinator, whose role is to coordinate the college's response to sexual misconduct. For more information about Title IX protections, faculty reporting responsibilities, options for confidential reporting, and the resources available for support visit LSCPA's Title IX website.
Clery Act Crime Reporting	For more information about the Clery Act and crime reporting, see the Annual Security & Fire Safety Report and the Campus Security website.
Grievance / Complaint / Concern	If you have a grievance, complaint, or concern about this course that has not been resolved through discussion with the Instructor, please consult the Department Chair.
Department Information	General Education and Developmental Studies Chair: Dr. Steven Zani Email: zanisj@lamarpa.edu Phone: (409) 984-6431