



STEPHEN F. AUSTIN STATE UNIVERSITY

Department of Mathematics and Statistics

MATH 0324 – Finite Mathematics Corequisite Support Course Syllabus

Course Description: This non-credit course provides just-in-time academic support for students concurrently enrolled in **MATH 1324 – Finite Mathematics**. The course emphasizes strengthening algebraic reasoning, problem-solving skills, and conceptual understanding required for success in finite mathematics topics, including functions, matrices, linear programming, probability, and mathematics of finance.

In addition to reinforcing prerequisite skills, the course focuses on mathematical communication, confidence building, and study skills, enabling students to organize solutions logically, explain reasoning orally and in writing, and apply effective learning strategies. Students engage in guided practice, collaborative problem-solving, and reflective exercises to build persistence and self-assurance while preparing for success in MATH 1324.

Credit hours: 3

Course Corequisites: MATH 1324

Course Outline: Units may include (aligned with MATH 1324 topics) –

1. Functions
 - Logical reasoning and problem-solving
 - Clear written and oral communication
2. Mathematics of Finance
 - Accurate application of formulas and organized solution presentation
 - Confidence and reflection in problem-solving
3. Matrices and Linear Programming
 - Collaborative reasoning
 - Clear justification of steps
4. Probability Analysis
 - Explaining probabilistic reasoning
 - Critical thinking and clear communication
5. Study Skills and Problem-Solving Strategies
 - Note-taking, error analysis, time management
 - Persistence, confidence, and independent learning

Student Learning Outcomes (SLO): Upon successful completion of this course, students will be able to:

1. Apply foundational algebraic skills to solve problems involving linear, quadratic, polynomial, rational, and logarithmic functions.
2. Use matrices and linear programming techniques to organize and solve systems of linear equations and optimization problems.
3. Solve mathematics of finance problems, including simple interest, compound interest, and annuities, and clearly communicate solution steps.
4. Interpret probability concepts and expected value in practical applications, showing logical reasoning and correct notation.
5. Communicate mathematical reasoning effectively, both orally and in writing, using proper notation, structure, and organized solutions.
6. Develop confidence and persistence in solving quantitative problems by applying problem-solving strategies and reflecting on reasoning processes.
7. Employ math-specific study skills, including note-taking, error analysis, time management, and test preparation to support independent learning.

There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.

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