



STEPHEN F. AUSTIN STATE UNIVERSITY

Department of Mathematics and Statistics

MATH 0332 – Math in Society Corequisite Support Course Syllabus

Course Description: This non-credit course provides just-in-time support for students concurrently enrolled in **MATH 1332 – Math in Society**. Emphasis is placed on strengthening critical thinking, problem-solving, and conceptual understanding while developing mathematical communication, confidence, and study skills.

Students engage in guided practice, collaborative problem-solving, and reflection activities that help them organize and communicate mathematical reasoning clearly, build persistence, and apply effective study strategies. The course supports students in connecting foundational skills to credit-level content in logic, sets, counting, probability, statistics, financial mathematics, and functions.

Credit hours: 3

Course Corequisites: MATH 1332

Course Outline: Units may include (aligned with MATH 1332 topics) –

1. Critical Thinking: Building confidence, reasoning through problems, clear written and oral communication
2. Logic: Articulating reasoning, organizing solutions, detecting errors and faulty logic
3. Set Theory: Organizing information, clear communication, applying reasoning to problem-solving
4. Financial Mathematics: Accurate computation, clear explanation of steps, applying math to real-world contexts, confidence building
5. Counting and Probability: Explaining reasoning, connecting concepts to real-world decisions, reinforcing study strategies
6. Statistics: Interpreting data, communicating conclusions clearly, critical thinking in evaluation of reports
7. Explicit instruction in Critical Thinking, Communication, and Empirical and Quantitative Reasoning: Explanation of solving mathematical problems by thinking critically, communicating logically ordered solutions with complete and correct notation, and applying empirical or quantitative skills as appropriate to the problem

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

1. Demonstrate critical thinking and reasoning skills to solve problems involving logic, sets, and real-world applications.
2. Communicate mathematical reasoning clearly, both orally and in writing, using correct notation and organized solutions.
3. Apply foundational skills in counting, probability, and statistics to interpret data and evaluate quantitative information critically.
4. Develop confidence in working with mathematical problems, showing persistence and self-assurance when tackling new concepts.
5. Use study strategies specific to mathematics, including note-taking, error analysis, time management, and test preparation to support success in MATH 1332.
6. Connect mathematical concepts to real-life contexts, including financial mathematics, functions, and data analysis, and explain reasoning effectively.

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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