

MTHE5323 - Problems Using Pre-calculus

[MTHE 5323](#) Problems Using Pre-calculus (3 semester credit hours) Analysis of the relationship of pre-calculus to real analysis, solving non-routine problems involving these concepts and adapting them for classroom use. The role of functions will be emphasized. Topics include functions [polynomial, rational, trigonometric, exponential, logarithmic], measurement trigonometry, vector functions [parametric equations], conic sections, real-world applications, and the role of technology in learning pre-calculus. May not be used to fulfill degree requirements for mathematical sciences majors except those in the Master of Arts in Teaching (MAT) program. Recommended Prerequisite: A junior-level mathematics course. (3-0) T