

MATHEMATICS

PHMA099 Kansas Math Standards

Prerequisite: students that have not reached
“Meets Standards” on the Kansas Math Assessment

Level: 11
Credit: ½ unit

This is a required course for any junior who has not yet met the Kansas standards per the Kansas Math Assessment. Students will receive instruction on the skills and concepts to be mastered in the areas of number systems and their properties, estimation, computation, algebra, geometry and data. Students in this class will take the Kansas Assessment.

PHMA101 Pre-Algebra

Prerequisite: Eighth grade MAP Test Scores
are used for selection of students

Level: 9
Credit: 1 unit

This course is designed to provide a full year of practice in the fundamentals of arithmetic while basic abstractions of algebra are introduced. The course provides a comprehensive and complete review and continued practice of all topics studied. This course is taken concurrently with Algebra 1.

PHMA102 Algebra 1

Level: 9-12
Credit: 1 unit

This course concerns itself with the study of the real number system. Emphasis is placed on solving linear and quadratic equations, solving word problems, the arithmetic operations using variables, graphing, percent problems and factoring. Parts of a particular concept are introduced in small units so that they may be practiced for a period of time before the next part of the same concept is introduced.

PHMA305 Geometry

Prerequisite: Algebra 1

Level: 9-11
Credit: 1 unit

This class relates the concepts presented in Algebra 1 to Geometry. Problem solving, proofs, and constructions are covered throughout the year. Other topics included are special triangles, circles, quadrilaterals, area, volume, surface area, and coordinate geometry.

PHMA103 Algebra 2

Prerequisite: Geometry

Level: 10-12
Credit: 1 unit

This class is a continuation of the Geometry course. Word problems are covered throughout the year. Other topics included are quadratic equations, basic trigonometry, area, volume, linear equations, systems of equations, and several uses of the scientific calculator.

PHMA302 College Algebra**Level: 11-12****Prerequisite: Algebra 2****Credit: 1 unit**

(concurrent credit through Fort Scott Community College is available)

This course is a college-prep, pre-calculus course which studies the concepts that grow out of algebra. Areas included are linear relations and functions, high degree equations, trigonometry, matrices and vectors, sequences and series, polar coordinates and complex numbers, exponential and logarithmic functions, conic sections, and the concepts of a limit.

PHMA401 Calculus**Level: 12****Prerequisite: College Algebra****Credit: 1 unit**

This course is a fourth year, college-prep calculus course, which contains an intensive review of the topics from algebra, trigonometry, and analytical geometry. These skills are necessary for success in calculus and contain an in-depth coverage of all the topics normally taught in the first two semesters of a three-semester calculus course.