

Math

MAT 101

Contemporary Mathematics..... 3.00 credits

This course will focus on the application of mathematics to today's world. Topics include street networks, producing and describing data, number and bar codes, weighted voting and apportionment, social choices and linear programming applications. Recommended Prerequisite(s): High school Algebra (2 years) or MAT 100 (may be taken concurrently).

MAT 103

College Algebra..... 3.00 credits

This course will focus on a study of the fundamentals of college level algebra. Topics include: algebraic expressions, equations and inequalities, function theory, linear and quadratic functions, polynomials, rational and radical expressions, quadratic equations and inequalities, exponentials and logarithms, and the Conic Sections. Recommended Prerequisite(s): High school Algebra (2 years) or MAT 100 with a final grade of B or above.

MAT 105

Statistics..... 3.00 credits

This course will focus on the fundamentals of modern statistics. Topics include: basic concepts of descriptive statistics, inferences about the mean, proportion, differences in means and differences in proportions; the binomial distribution, confidence intervals, and hypothesis testing. Other topics in this course include an introduction to probability and bivariate data, including linear correlation and regression. This course is an Open Educational Resource (OER) Course. Recommended Prerequisite(s): High school Algebra (2 years) or MAT 100 (may be taken concurrently).

MAT 115

Logic..... 3.00 credits

This course will focus on a study of formal and informal logic, deductive and inductive reasoning, hypothetical reasoning, valid argument forms, symbolic logic, sentential and predicate language, statement logic, tautologies, and the use of validity/invalidity in logic. Emphasis is placed on the proper uses of logic for problem-solving techniques.