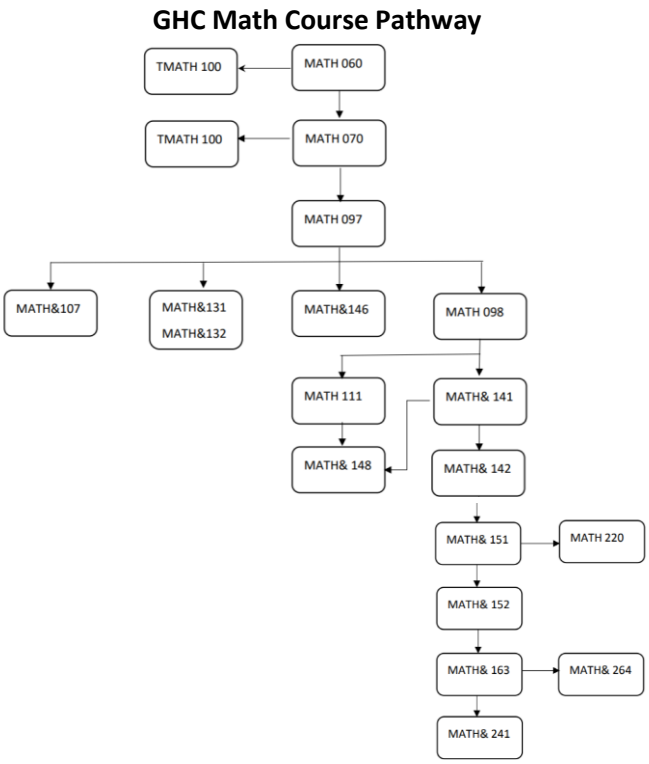

Course Topics:

MATH 60: Fundamentals of Arithmetic. Topics include: estimation, order of operations, whole numbers, fractions, decimals, ratios, proportions, percent applications, measurement applications including calculating the perimeter and area of geometric objects. Problem solving strategies will be stressed.

MATH 70: Beginning Algebra. Topics include fractions, percents, real number arithmetic, exponents, order of operations, algebraic expressions, solving linear equations and inequalities with one variable, graphing linear equations, working with units and formulas.

MATH 97: Elementary Algebra. Topics covered include: review of basic algebra; ratios and proportions; systems of linear equations and inequalities; linear functions; polynomials; quadratic functions; and exponential functions. Applications are drawn from personal finance, business, social sciences and the sciences.

MATH 98: Intermediate Algebra. Topics include: factoring; rational expressions and equations; power and radical expressions and equations; quadratic equations and functions; graphing lines and parabolas; solving basic applications.

TMATH 100: Vocational Math. Content includes: powers and roots, signed numbers, formula manipulations, plane and solid geometry, trigonometry and specialized formulas. [Vocational students in Auto, Carpentry, Diesel and Welding.]

TMATH 101: Vocational Math. Topics include: linear and exponential functions, financial mathematics, and descriptive statistics. [Vocational students in Human Services, Criminal Justice, etc.]

Math& 107: Math and Society. Topics include: percents, index numbers and the CPI, financial math, probability, statistical reasoning, measures of central tendency and variation, the normal distribution and exponential growth and decay. [Humanities]

MATH 111: Finite Math. Topics covered include: linear, quadratic, exponential and logarithmic functions; systems of linear equations and inequalities with solution by simplex methods; and financial math. Applications are drawn from business, economics, and the management and social sciences. [Business Majors]

MATH& 131: Math for Elementary Ed. Majors. Focuses on a deeper understanding of problem solving techniques, place value, numeration and computation, fractions, decimals, percents, ratios and proportional reasoning, and number theory to improve students' ability to teach this material.

MATH& 141: Precalculus 1. Content includes: the definition of a function; linear functions; graphs of functions; inverse functions; quadratic functions; exponential functions; logarithmic functions; and triangle trigonometry. Applications from science and engineering. [Science, Engineering, Math and general transfer students.]

MATH& 142: Precalculus 2. Content includes: a review of right triangle trigonometry; trigonometric functions; inverse trigonometric functions; trigonometric identities; polar coordinates; vectors; polynomial functions; rational functions; parametric equations; and conic sections. [Science, Engineering, Math and general transfer students.]

MATH& 146: Statistics. Content includes: the graphical display of data; the numerical summary of data; the basics of surveys and experiments; basic probability theory; the central limit theorem; sampling distributions; confidence intervals; hypothesis tests; the t-distribution; correlation; and linear regression. Applications are drawn from business, the social sciences and the natural sciences. [Business, Nursing, Science and Social Science Majors.]

MATH& 148: Business Calculus. Content includes: differentiation, applications of derivatives, anti-differentiation, basic differential equations, integration, and partial derivatives. Applications are drawn from business, economics, and the management and social sciences. [Business majors.]

MATH& 151: Calculus 1. Content includes: limits; differentiation of elementary functions; implicit differentiation; related rates; analysis of extreme values and curvature of functions; applied optimization; antiderivatives; and an intro to definite integrals. Applications from the natural and social sciences, and engineering. [Science, Engineering and Math Majors.]

MATH& 152: Calculus 2. Content includes: definite integrals; the fundamental theorem of calculus; techniques of integration; numerical integration; applications including volumes, work, and differential equations; Taylor polynomials; and power series. Applications from the natural and social sciences, and engineering. [Science, Engineering and Math Majors.]