

Department: Mathematics

Course No: MATH 1060Q [109Q]

Title: Precalculus

Credits: 3

Contact: David Gross

WQ: Q

Catalog Copy: Either semester. Three credits. Recommended Preparation: MATH 1010, 1011 or the equivalent. Not open for credit to students who have passed MATH 1120, 1125, or 1131. Students may not receive credit for this course and MATH 1040. Preparation for calculus. Review of algebra. Functions and their applications; in particular, polynomials, rational functions, exponentials, logarithms, and trigonometric functions.

Course Information:

a: The course objectives are to introduce students to the algebra and trigonometry concepts needed in calculus as well as the manipulation skills necessary in the study of calculus.

b: the format will be fairly typical: some exams, a final, quizzes and possible projects (graded or nongraded).

c: A review of algebra, simultaneous and quadratic equations, logarithms, the trigonometric functions, solution of triangles, trigonometric equations.

Q Criteria : The course include mathematics at or above the basic algebra level as an integral part of the course which is used throughout the course.

The course included the use of basic algebraic concepts such as: formulas and functions, linear and quadratic equations and their graphs, systems of equations, polynomials, fractional expressions, exponents, powers and roots, problem solving and word problems.

The course require the student to understand and carry out actual mathematical manipulations and use them in order to draw conclusions.

Role of Grad Students: This course will typically be taught by graduate student assistants under the supervision of a faculty coordinator.