

**Department:** Mathematics

**Course No:** MATH 2010/2011Q [247Q]

**Title:** Fundamentals of Algebra and Geometry

**Credits:** 3

**Contact:** David Gross

**WQ:** Q

**Catalog Copy:** Either semester. Three credits each semester. Prerequisite: PSYC 1100 and three credits of Mathematics other than MATH 1010. Not open for credit to students who have passed MATH 2110, 2410, 220, 2130, 2143. This course may not be counted in any of the major groups described in the Mathematics Department listing. The development of the number systems with applications to elementary number theory and analytic geometry. This course is intended only for students in elementary education, specifically those in pre-teaching elementary and in the NEAG School of Education.

**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:** none