Course Descriptions from Other Schools

New Trier - Algebra 1 - Elementary algebra focuses on the structure of the real number system. The solution of equations, inequalities, and systems of equations and inequalities is presented. Graphing, both as a means of **displaying data and analyzing data in one and two dimensions**, is an integral part of these courses. A sound foundation in arithmetic and prealgebra skills is essential for success in these courses.

Glenbrook North and South - Geometry - Geometry 163 is a plane geometry course with applications in three dimensions. This course is designed to develop critical thinking through analytic reasoning and an understanding and appreciation of geometric relationships. The course focuses on topics such as parallel and perpendicular lines, congruence and similarity, right triangles and trigonometric ratios, properties, perimeter and area (of two-dimensional objects) as well as surface area and volume (of three-dimensional solids). An in-depth study of the properties of circles is also part of this course. Formal deductive proof and using inductive reasoning to make conjectures are emphasized. Students discover geometric relationships through manipulative tools and technology explorations. **In every unit of study, the application of algebra skills is stressed.**

Course Descriptions from Other Schools

Stevenson - Algebra 2 - This course is designed to engage students in the practice of mathematics by developing an understanding of mathematical relationships, functions, and models, **both in and out of context**, with an emphasis on problem solving. Algebraic topics will be developed and valued conceptually leading to procedural fluency. Students will utilize concepts, skills, representations, and techniques that address many different types of functions, including quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions. **This course also uses statistical models to analyze relationships represented by data**. Successful completion of this course will prepare students for entry into AMDM or Precalculus.