

## **MATH**

### **GEOMETRY**

**9**      **1 credit**              **2 semesters (full year)**              **\$3.00**

This course is designed for the student who has successfully completed the first year of college-prep algebra in eighth grade. Students learn to value the need to think logically and to present ideas in a logical order. Proofs are introduced in a variety of formats including two-column, paragraph, and indirect forms. Algebra concepts are reviewed to help students strengthen their skills. Algebra integration within coordinate geometry topics and probability and statistics connections are used throughout the course. Students will use the tools of geometry for reasoning and proofs. Parallel and perpendicular lines, congruent triangles, and relationships within triangles will be presented as well as various aspects of quadrilaterals including area and similarity. Surface area, volume, right triangle trigonometry, circles, and transformations topics are also discussed. A scientific or graphing calculator is strongly recommended for this course.

### **MATH I**

**9**      **1 credit**              **2 semesters (full year)**              **\$3.00**

The critical areas in this course deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Mathematics I uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. A scientific or graphing calculator is strongly recommended for this course.

### **FRESHMAN MATH**

**9**      **1 credit**              **2 semesters (full year)**              **\$3.00**

This course is designed to be taken in conjunction with Math I. The purpose of this class is to provide additional time and support for students in Math I so that they will be able to successfully demonstrate the skills and knowledge correlated with concepts such as number and quantity, algebra, functions, geometry, modeling and probability and statistics. In addition, intervention will be provided on pre-algebra topics to supplement needed support skills related to the high level of rigor required in Math I. A scientific or graphing calculator is strongly recommended for this course.

