

# Advanced Geometry

This course includes emphasis on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. In addition, students begin the study of the Unit Circle. Students will use a variety of applications and problem-solving techniques including Algebraic skills. The intent of this course is to provide students with many opportunities to explore, conjecture, reason logically, formulate and solve problems, and communicate mathematically. Graphing utilities, computers, dynamic geometry software, and other appropriate technology tools will be used to assist in teaching and learning. Students taking this course are expected to continue their studies with an Advanced Algebra II course. This course has an associated Standards of Learning (SOL) test. Students will participate in these tests only when they have not yet earned sufficient credit for graduation and/or satisfied federal testing requirements.

**Credits** 1

**Grades**

8, 9, 10

**Course Designation**

Weighted (0.5W)

**Schools**

Battlefield High School

Colgan High School

Forest Park High School

Freedom High School

Gainesville High School

Hylton High School

Osborn Park High School

Patriot High School

Woodbridge High School

**Prerequisites**

[Advanced Algebra 1](#) or [Algebra 1](#) (with teacher recommendation)