

**Union County Educational Services Commission
High School Course Syllabus**

Title: Trigonometry

Timeline: Full Year; 5 Credits

Course Description:

Trigonometry will develop the students' mathematical concepts, improve logical thinking, and help to promote success. The laws of sines and cosines will be studied and applied to real life situations. Students will study relations, functions, trigonometric graphs and their properties and transformations using angular and radian measures. There is an emphasis on solving trigonometric equations and proving trigonometric identities. Students will use graphing calculators in activities that are appropriate to the topics being studied.

Scope and Sequence:

- I. Trigonometry with Right Triangles
- II. Trigonometry with General Triangles
- III. Circles: Sine, Cosine, and Tangent
- IV. Graphs of Trigonometric Functions
- V. Trigonometric Equations and Identities

Curriculum Alignment:

New Jersey Student Learning Standards - Mathematics
Standards for Mathematical Content and Practice

Grading Procedures:

Do Now	10%
Participation	20%
Class Assignments	50%
Assessments	20%

Adoption Date: