



**Prerequisite:** departmental placement

**Basic Geometry \*481\* Phase 1 SUS/FBF 1206300 [Year]**

This course represents an introduction to the fundamentals of Euclidean Geometry without formal proofs.

**Prerequisite:** 70 or below in Algebra I, Phase 2, *or* successful completion of Algebra I, Phase 1

**Geometry \*482\* Phase 2 \*SUS/FBF 1206310 [Year]**

This course is offered to students who have successfully completed Algebra 1. Topics covered include points, lines and planes, initial postulates and theorems and their respective proofs, angle relationships, parallel and perpendicular lines, congruent triangles, similar polygons, areas, circles, construction, loci, and coordinate geometry.

**Prerequisite:** 98 or better in Algebra I, Phase 1; 83 or better in Algebra I, Phase 2; 82 or less in Algebra I/II Honors, or 82 or less in Algebra II/Trig. Honors

**Geometry Honors \*464\* Phase 3 SUS/FBF 1206320 [Sem]**

This course is offered as the second course in the Honors Program and is intended as a rigorous preparation for the sequential courses. The course is taken as a first semester course and is an in-depth study of plane and coordinate geometry. Geometry Honors also provides an accelerated study of Euclidean Geometry including formal proofs. The objective is to give the student an in-depth study of geometry with emphasis on methods of proofs in the formal language of mathematics.

**Prerequisite:** 83 or better in Alg. I/II Honors or 83 or better in Alg. II with Trigonometry Honors.

**Trigonometry Honors \*465\* Phase 3 SUS/FBF 1211300 [Sem]**

This course is offered as the second course in the honors program, and is intended as a rigorous preparation for the sequential courses. This course is offered in the second semester and is a complete and intensive study of trigonometry necessary to proceed to the next advanced mathematics course.

**Prerequisite:** 83 or better in Alg. I/II Honors.

**Algebra II \*461\* Phase 1 SUS/FBF 1200330 [Year]**

This course is a continuation of the study of Algebra I and includes equations with three variables, determinants, sequences, and series, complex numbers, analytic geometry, exponents, and logarithms.

**Prerequisite:** Successful completion of Informal Geometry, or 72 or lower in Geometry

**Algebra II with Trigonometry \*462\* Phase 2 SUS/FBF 1200330/1211300 [Year]**

The purpose of this course is to continue the study of the structure of Algebra and to provide a foundation for applying these skills to other mathematical fields, including trigonometry. Topics include real numbers, equations and inequalities in one variable, polynomials, systems of linear equations and inequalities, relations and functions, exponents and radicals, quadratic equations and inequalities: in one variable, ration, proportion, variation, verbal problems, and graphing. Students will also be introduced to the study of trigonometry, which will be continued in the next course in the sequence.

**Prerequisite:** 95 or better in Informal Geometry, or 73 or better in Geometry; 73 or less in Geo/Trig Hnrs. if student did not enroll in Alg I/II Honors

**Algebra II/Trigonometry Honors \*463\* Phase 3 SUS/FBF 12000340/121130 [Year]**

This course represents a comprehensive and intensive study of the topics of Algebra II. Topics covered will include: review of Alg. I topics, a study of functions, equations and their graphs, linear systems of equations, matrices, quadratic equations and their graphs, polynomials and their functions; radical, rational, exponential, and logarithmic functions and conic sections.

**Prerequisite:** 95 or better in Algebra I (Ph 2) and teacher recommendation. Departmental placement for incoming students, including freshmen





