

Credit Recovery Geometry

In this Credit Recovery class, the student can build upon previous learning to earn that credit without having to repeat the entire course. This class allows the student to assess current understanding of required content, using built-in assessments. Assessment results steer the student to the lessons needed to complete the required learning and succeed on final content assessments. The student is thereby able to master required content standards in less time than it would take to repeat lessons unnecessarily in a full course. This Geometry course provides an excellent opportunity to develop new mathematical skills and to increase the level of sophistication in thinking that will help you to be successful in future math and science courses.

Course Outline

Semester 1

Lesson 1: Definitions, Logic and Proofs

- Vocabulary
- Points, Lines and Planes
- Segments
- Angles
- Logic
- Proofs

Lesson 2: Parallel Lines and Congruent Triangles

- Vocabulary
- Parallel Lines
- Slope
- Distance
- Triangles
- Congruent Triangles

Lesson 3: Triangles and Quadrilaterals

- Vocabulary
- Right Triangles
- Inequalities and Indirect Proofs
- Triangles and Inequalities
- Parallelograms
- Quadrilaterals
- Trapezoids

Semester I Exam

Semester II

Lesson 4: Proportions and Trigonometry

- Vocabulary
- Ratios, Proportions and Similarities
- Triangle Similarities
- Fractals
- Geometric Mean
- Pythagorean Theorem
- Special Right Triangles
- Trigonometry

Lesson 5: Circles, Polygons, Area and Volume

- Circles
- Tangents, Secants and Chords
- Polygons
- Areas of Quadrilaterals
- Areas of Regular Polygons and Circles
- Three Dimensional Figures and Surface Area

Volume
Congruent and Similar Solids
Lesson 6: Coordinate Applications and Mapping
Vocabulary
Linear Equations
Coordinate Proofs
Vectors and 3D Space
Locus
Mappings
Reflections and Translations
Rotations and Dilations
Semester II Exam