

Excel Academy

**Course Syllabus**

**Our Mission:**

EXCEL Academy’s mission is to serve a diverse range of high school students looking for an accelerated or non-traditional path towards success. Through the use of data-driven research, EXCEL Academy provides high educational standards and accountability in order to prepare students for both graduation and post-secondary readiness.

**All EAHS graduates will demonstrate characteristics within the following areas:**

* ***Key Cognitive Strategies*** – Students will demonstrate skills involving problem solving, research, interpretation, and reasoning. All with precision and accuracy.
* ***Key Content Knowledge*** – Students will demonstrate key foundational content and “big ideas” from all core subjects.
* ***Academic Behaviors*** – Students will learn to time manage, possess study skills, set goals, have self-awareness and persistence.
* ***Contextual Skills and Awareness*** – Students will be aware of all essential process in order to navigate within college systems. (Admission requirements, affording college, college types and missions, college culture, exposure to college professors)

**Course Title: Geometry**

**Teacher’s Name: Mary Jane Sliter, MaryJane\_Sliter@dpsk12.org,**

**Textbooks/Materials Used**: DISCOVERING GEOMETRY/ ACCELERATED MATH

**Course Emphasis:** Understanding Geometric language and concepts in order to prepare for standardized tests and Advanced Algebra

**Course Expectations:** ALL EAHS students are expected to conform to all policies and standards found within the Excel Academy student handbook.

|  |  |
| --- | --- |
| Classroom Supplies | Provided: Calculator, compass, protractor, paper, pencils, computer, etc.  Students provide: positive attitude and willingness to learn. |
| Standards Addressed  Common Core or Colorado Content Standards | ELG.MA.HS.G.1: Experiment with transformations in the plane.  ELG.MA.HS.G.2: Understand congruence in terms of rigid motions.  ELG.MA.HS.G.3: Prove geometric theorems.  ELG.MA.HS.G.4: Make geometric constructions.  ELG.MA.HS.G.5: Understand similarity in terms of similarity transformations.  ELG.MA.HS.G.6: Prove theorems involving similarity.  ELG.MA.HS.G.7: Define trigonometric ratios and solve problems involving right triangles.  ELG.MA.HS.G.9: Understand and apply theorems about circles.  ELG.MA.HS.G.10: Find arc lengths and areas of sectors of circles.  ELG.MA.HS.G.11: Translate between the geometric description and the equation for a conic section.  ELG.MA.HS.G.12: Use coordinates to prove simple geometric theorems algebraically.  ELG.MA.HS.G.13: Explain volume formulas and use them to solve problems.  ELG.MA.HS.G.14: Visualize relationships between two-dimensional and three-dimensional objects.  ELG.MA.HS.G.15: Apply geometric concepts in modeling situations. |
| Grade Scale | 90% - 100% = A  80% - 89% = B  70% - 79% = C  60% - 69% = D |
| Excel Behavior Expectiatons | P Prompt  P Polite  P Prepared  P Participate  P Pride |
| Support | Make-up Work can be turned in up until the 7th week of the 9 weeks. Any additional content area support students must talk with their teacher. |
| Parent Communication | Parents will be contacted by phone and/or e-mail. |

**Course Calendar**

Sessions

Week (1) …………………………………………...Unit 1 - Introduction to Geometry

CLO - Students will experiment with transformations in a plane by gaining an understanding of key geometric concepts and using those concepts to solve problems.

Week (2) ………………………….………………...Unit 1 - Introduction to Geometry

CLO - Students will use coordinates to prove simple geometric theorems algebraically by exploring midpoints and solving midpoint problems.

Week (3) …………………...……............................Unit 1 - Introduction to Geometry

CLO - Students will use coordinates to prove simple geometric theorems algebraically by exploring midpoints and solving midpoint problems.

CLO - Students will experiment with transformations in a plane and use coordinates to prove simple geometric theorems algebraically by completing Interim 1

Week (4) ………………………………............................…. Unit 2 Triangles

CLO - Students will prove geometric theorems about triangles.

Week (5) ……………………………………………… ……..Unit 2 Triangles

CLO - Students will prove geometric theorems about triangles.

Week (6) ………………………………………………………...Unit 3 Quadrilaterals

CLO - Students will prove geometric theorems about quadrilaterals.

Week (7) ………………………………………………………..Unit 3 Quadrilaterals

CLO - Students will prove geometric theorems about quadrilaterals.

Week (8) ………………………………………………………. Unit 3 Quadrilaterals.

CLO - Students will prove geometric theorems about quadrilaterals.

CLO - Students will prepare for the Final by participating in the review.

Week (9) ……………………………………………………………Final - Units:1- 3

CLO – Students will show their understanding of Geometry Semester 1 by completing the Final.

**Detach below and return with your parent/guardian signatures by: \_\_\_\_\_\_\_\_ (date)**

**- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -**

**I acknowledge receiving a copy of the Course Syllabus for \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (course)**

**Class Period \_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_**

**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(Print) (Sign)**

**Parent Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Print) (Sign)**