

Course Syllabus Report



MA832O Geometry 1-1

Meets Graduation Requirements: Yes

Details

Description

Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include reasoning, proof, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and applications of probability. This course supports all students as they develop computational fluency and deepen conceptual understanding. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas.

Ale Course Essential Learnings:

- Experiment with transformations in the plane
- Understand congruence in terms of rigid motions
- Prove geometric theorems
- Make geometric constructions
- Understand similarity in terms of similarity transformations
- Prove theorems involving similarity.
- Define trigonometric ratios and solve problems involving right triangles
- Apply trigonometry to general triangles
- Translate between the geometric description and the equation for a conic section
- Use coordinates to prove simple geometric theorems algebraically
- Solve real-world problems given geometric information

Default Ale Certificated Teacher: Kim Franett Fergus

Ale Course is Active: 1

Ale Course is Parent Template: 0

State Course Codes:MAT072 (Geometry)

Ale Course Type:NCAA Approved

State Subject Area:Mathematics

SIS Course Code: MA832O

Ale Course Grading Scale: Official Grades are accessed through StudentVUE/ParentVUE A 3.50-4.00 B 2.75-3.49 C 2.00-2.74 F 1.99 or below

Ale Course Available Credits: .5 credit

Ale Course Prerequisites: Algebra 1

Ale Course Texts:

Ale Course Additional Resources: Khan Academy IXL.com CK-12.org

Instructional Materials needed: Internet access, computer, modern OS/software/web browser, headphones with microphone, webcam preferred, - if not built into computer, Access to a printer/scanner is necessary for written assignments. This course uses the Apex online course textbook. All materials will be included online. However, the course requires notebook, a 3 ring binder, scientific calculator, graph paper, ruler, compass, straightedge and protractor.

Average Number Of Hours Of Study Per Week: 5.00

Syllabus

Ale Course Syllabus:

Objectives

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- Experiment with transformations in the plane
- Understand congruence in terms of rigid motions
- Prove geometric theorems
- Make geometric constructions
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- Prove theorems involving similarity.
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- Solve real-world problems given geometric information

Ale Course Standards:

Course is aligned with current Federal Way Public Schools Priority Standards and Washington state standards.

Ale Course Learning Requirements:

Weekly Work Completion: Scholars will submit original work in all classes each week.

Original Work Submissions: Scholars will only submit their original work. If a scholar uses outside sources in the creation of their original work, citations must be present in the format requested by their teacher.

Weekly Communication: Scholars will communicate weekly with their teachers regarding their academic progress.

Functioning Technology/Required Materials: Scholars will always have constant and consistent access to the functioning hardware, software, technology, and required materials necessary to complete their coursework in all classes.

Academic Integrity: Academic integrity is essential to learning. scholars are expected to complete their own work. Copying, plagiarizing, cheating, or other methods of intentional deception are prohibited and could result in the scholar's removal from the class or iA entirely.

IA Policy
1st Offense: The scholar will be contacted by the teacher via phone call, the scholar will be made aware of the plagiarism and examples of how this can be avoided will be discussed. Direct instruction on plagiarism will be delivered by the teacher. iA Administration and other teachers will be made aware of the plagiarism. The work must be redone without plagiarism.
2nd Offense: The scholar and parents will be contacted by the teacher directly and the scholar will have to complete the plagiarized assignment without plagiarism before moving on in the course. iA Administration will be made aware.
3rd Offense: The scholar will be withdrawn from the course or iA depending on the severity and/or frequency of the plagiarism.

WAC (Weekly Academic Contact): State regulations require scholars in online programs to have weekly academic contact with each teacher. This occurs by engaging with the curriculum and online instruction, submitting assignments to make progress in learning, and

successfully completing courses. Scholars have multiple opportunities and methods to achieve weekly academic contact and receive teacher assistance and feedback: email, message, live online sessions, assignments, phone, and/or face-to-face meetings by appointment when applicable and in accordance with social distancing guidelines.

In accordance with new state law the iA Weekly Academic Contact policies are changing. To ensure the success of all iA scholars, Weekly Academic Contact is required to remain enrolled at iA.

1st week missed WAC= Notification of missed WAC that informs scholars and parents of the consequences of additional missed WAC. (Step 1)

2nd consecutive or 3rd cumulative week of missed WAC= The scholar and parent must conference with a designee to discuss the missed contact, administer a “screener”, and develop a data-based interventions plan. (Step 2)

5th consecutive OR 6 cumulative of missed WAC= BECCA petition will be filed. (Step 3)

Ale Course Academic Goals:

Activities

Ale Course Learning Activities:

Activity Selections

- Text Books and/or Work Books.
- Activities.
- Discussion.
- Skill Drills.
- Internet Research.
- Performances
- Supplemental Materials.

Evaluation

Ale Course Evaluation Methods:

MPR

(Monthly Progress Review)

Each month teachers decide whether a scholar is making Satisfactory or Unsatisfactory progress in each course. Then the

homeroom/advisory teacher will determine if scholar is overall Satisfactory or Unsatisfactory for the month.

Secondary (6-12) - to be overall SATISFACTORY for the month, a scholar must be passing half or more of their courses.

Three consecutive months of Unsatisfactory Progress will result in a course reduction - which may affect graduation for high school scholars.

Four consecutive months of Unsatisfactory progress will result in complete withdrawal from iA. Scholars withdrawn from iA for Unsatisfactory progress may not re-enroll until the following school year.

Timelines:

September Timeline:

Complete all lessons and assignments in the September module on your "modules" page in Canvas.

October Timeline:

Complete all lessons and assignments in the October module on your "modules" page in Canvas.

November Timeline:

Complete all lessons and assignments in the November module on your "modules" page in Canvas.

December Timeline:

Complete all lessons and assignments in the December module on your "modules" page in Canvas.

January Timeline:

Complete all lessons and assignments in the January module on your "modules" page in Canvas.

February Timeline:

Complete all lessons and assignments in the February module on your "modules" page in Canvas.

March Timeline:

Complete all lessons and assignments in the March module on your "modules" page in Canvas.

April Timeline:

Complete all lessons and assignments in the April module on your "modules" page in Canvas.

May Timeline:

Complete all lessons and assignments in the May module on your "modules" page in Canvas.

June Timeline:

Complete all lessons and assignments in the June module on your "modules" page in Canvas.