

## MA8320/ Geometry 1-1 Syllabus

Course Title----- Geometry 1-1  
Course Number----- MA8320  
Grades:----- 09-12  
High School Credit Value:----- 0.5  
Prerequisites:----- Successful completion of first year  
Algebra.

Course Length:----- Regular courses: 17 weeks  
CR: 9-17 weeks.

Course Time:----- Regular courses: 17 week schedule: 75 - 90  
minutes per school day (6-7.5 hours per  
week)  
Credit Retrieval: 75 - 90 minutes per  
school day (6-7.5 hours per week) until  
course completion.

### { Course Description }

In Geometry 1 students will be introduced to the building blocks of Geometry including lines, planes, points, angles, triangles, and some Euclidean constructions. Students will be introduced to the basic processes and elements of geometric reasoning and logic including conjectures, inductive reasoning, deductive reasoning, theorems, conditionals and biconditionals. Students will apply properties, postulates and theorems find missing measures, measures of similar figures, and for direct and indirect proof proofs.

This course fulfills 0.5 credits of the 2.0 mathematics credits required by WA state for high school graduation and combined with the second semester course, prepares students for the WA state Geometry EOC test.

Please check with your district for more specific requirements.

#### **Course Materials:**

- The necessary computer components as defined at the iA and Odyssey websites.
- Speakers to access the audio of the text.
- A printer for the worksheets.
- A notebook or binder to take and organize notes.
- A straightedge and compass.
- A headset with microphone is strongly recommended for communicating in the online office.

#### **State Alignments**

Washington State Standards guided the design of the course. Learning expectations are found within the course itself.

**Our Geometry course addresses the following Common Core State Standards.**

CCSS		iA Campus unit
<b>G.CO</b>	Congruence	1, 2, 3, 4, 5
<b>G.SRT</b>	Similarity, Right Triangles and Trigonometry	4, 5, 6
<b>G.C</b>	Circles	Second Semester
<b>G.GPE</b>	Expressing Geometric Properties with Equations	3
<b>G.GMD</b>	Geometric Measurement and Dimension	1

**Course Outline**

This is a GENERAL guideline help students through the course in 17 or 12-week Learning Plan Contracts (LPC).

		17 week LPC	12 week LPC
Unit 1	Introduction to Geometry	2 weeks	1 week
Unit 2	Reasoning and Proofs	3 weeks	2 weeks
Unit 3	Lines and Angles	3 weeks	2 weeks
Unit 4	Triangles I	3 weeks	2 weeks
Unit 5	Triangles II	3 weeks	2 weeks
Unit 6	Special Right Triangles and Trig.	2 weeks	2 weeks
Unit 7	Semester Wrap-up	1 week	1 week

**Course Work**

The majority of the instruction and formative work is done in **Odyssey**, our interactive online textbook. Summative assignments are submitted as assessments in the iA Campus learning system.

Students begin by opening the the Units tab in the iA Campus Geometry Course pages. Start at the top and follow the instructions in the Getting Started(GS) folder. Students will be introduced to the Odyssey online curricula and perform a system check to be sure their

computer has all the required add-ons needed to run the lessons. *It is the responsibility of user to install any add-ons suggested and/or to remove any program that will affect the use of the online curriculum.*

After completion of the GS assignment, students will be ready to begin work in Odyssey!

- o First, login to unit one in the iA Campus and follow the instructions to complete work in Odyssey. In Odyssey, follow the flashing green arrow to identify the next lesson.
- o As students then work on the assigned Odyssey lessons, scores of at least 75% must be earned to progress. Three attempts are allowed on each quiz. *Please contact the teacher for help before making the third attempt.*
- o Each Odyssey Chapter concludes with a Chapter test which may only be taken once.
- o Students must remember to login to the iA Campus and submit summative assessments.
- o The same procedure is followed for the remaining Chapters.
- o The course concludes with a cumulative final.

Math is like sports or music, you can understand what to do, but if you don't practice, your skills will be weak. You may need to do all the practice problems available.

When completing work in the iA Campus we recommend working in a writing program, such as Word, on your home computer, saving, and then cutting and pasting your work into the assessment text boxes. Plagiarized assignments will receive no credit. Students who work consistently over the semester complete class are most likely to successfully complete the course, earning the credit.

Students can contact the course instructor in several ways including: email, online live chat, online live office hours, by telephone, through assignment pages in class, and by appointment, coming to our campus in Federal Way.

### **Grading**

**Final grades for Geometry 1 will be calculated from the summative Checkpoints, Unit reflections, and other assignments posted by the teacher in the iA Campus.**

### **Revision Policy**

**Students will be given three attempts to achieve mastery (70%) of each quiz. Quiz scores between 70 and 80% on may be retaken with teacher approval.**

**Chapter tests, and the final exam cannot be retaken.**

**Please be aware that the program can mark a quiz answer incorrect when it is correct. When this occurs, it is the student's responsibility to communicate to the teacher. Be detailed when explaining the mathematical steps used to compute the answer. Regular communication with your teacher is an important part of this class.**

**Occupational Credit:**

**This course may qualify for \*occupational credit. Please consult your school counselor for further clarification.**

**\*Please note that FLA901 (Sign Language) does not qualify for occupational credit.**

Copyright Internet Academy (iAcademy.org), Federal Way School District, WA