

MA8330/ Geometry 1-2 Syllabus

Course Title----- Geometry 1-2
 Course Number----- MA8330
 Grades:----- 09-12
 High School Credit Value:----- 0.5
 Prerequisites:----- Successful completion of first year Algebra
 and semester one of Geometry.

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

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

{ Course Description }

In Geometry II students will continue their application of geometric reasoning and proofs by studying polygons, circles, solids and composite figures and apply those properties to find area, perimeter, volume, and surface area. Students will understand and apply the concepts of geometric transformation. Students will explore how increasing side length affects volume. Students will apply concepts of special geometric relations to solve problems including using geometric mean, Pythagorean Theorem, right triangles, basic trigonometry (sine, cosine and tangent). Students will experience and apply further development of various geometric concepts through hands-on activities covering geometric constructions, an introduction to non-Euclidean geometry, and geometric art.

This course, along with the first semester, prepares students for the WA state EOC test meets 0.5 credits of the 2.0 mathematics credits required by the state for graduation. 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 compass, straightedge and protractor.
- A headset with microphone is 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.

Common Core	Description of Standard	Semester 1	Semester 2
G.CO.	Congruence	1,2,3, 4,5	1, 4
G.SRT	Similarity, Right Triangles, and Trigonometry	4, 5,6	1, 4,6
G.C	Circles		2,3
G.GPE	Expressing Geometric Properties with Equations		5
G.GMD.1	Geometric Measurement and Dimension		2, 3, 4, 5,6

Course Outline

This is a guideline to pace students through the course for a 17- and 12-week Learning Plan Contract (LPC).

		17 week LPC	12 week LPC
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Unit 1	Polygons	2 week	1 week
Unit 2	Area of Polygons and Circles	2 weeks	2 weeks
Unit 3	Circles	2 weeks	2 weeks
Unit 4	Transformations	2 weeks	1 week
Unit 5	Surface Area and Volume	2 weeks	2 weeks
Unit 6	Angles of Elevations and Depression and Vectors	2 weeks	2 weeks
Unit 7	Constructions, Non-Euclidean Geometry and Art	2 weeks	1 week
Unit 8	Semester Wrap-up and final	2 days	2 days

Course Work

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

Students begin by logging into their iA Campus Course pages (UNITS tab) and follow the Getting Started (GS) instructions and complete the GS assignment. This will introduce Odyssey, our 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 the GS is completed, students will:

- Log into Odyssey and follow the green arrow to complete the next lesson.
- As students work on the assigned lessons, scores of at least 70% must be earned to progress to the next lesson.
- Each Chapter concludes with a Chapter test which may only be taken once.
- Students then submit a summative test, Checkpoint, in the iA Campus page.

The same procedure is followed for the remaining Chapters.

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.

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 2 will be calculated from:

- Checkpoints, Unit reflections, and other assignments posted by the teacher in the iA Campus.
- A cumulative Midterm and Final exam.

Revision Policy

Students will be given three attempts to achieve mastery (70%) of each Odyssey 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.* The teacher will review the problem and the student's solution to determine if full or partial credit should be given.

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.

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