

MA908O/ PreCalc/Trig 1 Syllabus

Course Title-----	PreCalc/Trig 1
Course Number-----	MA908O
Grades:-----	09-12
High School Credit Value:-----	0.5
Prerequisites:-----	Successful completion of both year one and two of 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 }

This course is designed to go through the topics of Trigonometry and the related real world applications of trigonometric topics. After students complete this course they will have an understanding of how trigonometry is used in day to day life and how it relates to other mathematical topics. After completing the course, students will be able to: understand the major trigonometric topics, identify how the major trigonometric topics relate to real world situations, apply trigonometry to various problems, and explain how trigonometry is used within the greater context of mathematics.

The course focuses on the mastery of critical skills and the understanding of key concepts through Compass Learning Odyssey online interactive lessons and in discussions with the teacher. Upon logging into the program, students work and complete lessons followed by taking a quiz and / or unit test online, as well as a cumulative test of understanding of content to the point of completion in the class.

This course helps meet the state minimum requirements of 3.0 Mathematics credits. Please check with your district for more specific requirements. Both semesters of Pre-Calculus cover content in Federal Way Power Standards.

Course Materials:

- notebook
- calculator

State Alignments

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

This course follows the College Readiness Standards for Washington State. Please use link to view standards:

<http://transitionmathproject.org/standards/doc/2010-crs-16feb10-revisions.pdf>

Course Outline

Getting Started	Getting Started Assignment
Functions and Graphs	Parent Functions and Transformations
Functions and Graphs	Properties of Functions
Functions and Graphs	Limits and Continuity
Functions and Graphs	Inverse Functions
Functions and Graphs	Piecewise Functions
Chapter Test: Functions and Graphs	Chapter Test: Functions and Graphs
Lines and Rates of Change	Linear Functions
Lines and Rates of Change	Rates of Change
Chapter Test: Lines and Rates of Change	Chapter Test: Lines and Rates of Change
Sequences and Series	Sequences and Series
Sequences and Series	Limits of Sequences and Series

Course Work

Course Work

Begin by clicking on Unit 1. When you click on a unit, you will be taken through an introduction and then begin the sections of the unit. In each section there will be lessons which will include examples and rules. Throughout each section there will be many quizzes, which will allow you to practice the skills taught and get

immediate feedback on the solutions. (These will not count for points towards your course grade, they are meant so that you can practice the skills as many times as you need.) The lesson pages will direct you on when it is time to complete an activity, homework assignment, quiz, or exam. Checkpoints are required weekly and are included in your final grade.

Quizzes & Checkpoints

Regular course quizzes are given at the end of each lesson in Compass Learning Odyssey. The quizzes assess what you have learned in that unit. If you have studied the material in the unit, done the practice problems you should be able to successfully complete the quizzes. Quizzes must be taken in one sitting. Checkpoints are required weekly. They are factored into the final grade and are used to measure progress.

Exams

Each semester will not have a Final Exam. All exams in Compass Learning Odyssey can be corrected to improve

your grade. This will be done through email. The student is responsible to email the teacher that they will want to correct problems and then they will decide what needs to be done to show mastery.

Notebook

This course uses a lot of formulas and techniques which may be hard to store in your memory permanently. You are encouraged to keep a notebook where you can keep formulas and perhaps examples of different types of problems. You will find it useful when preparing for quizzes and exams and you may use your notebook on quizzes and tests.

Grading

Students will be graded on homework, quizzes and exams. All work will be completed through the Aventa program.

Revision Policy

Students will have the opportunity to view the lesson and take the practice problems and quizzes as many times as is necessary. The quizzes and exams may only be

taken one time.

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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