



## Internet Academy Syllabi

MA8320-GEOMETRY 1-1

<b>Course Basics</b>			
<b>District Course Code:</b>	<b>Grade Level:</b>	<b>Credit Value:</b>	<b>NCAA Approved:</b>
MA8320	9, 10, 11, 12	.5	Yes
<b>State Course Code:</b>	<b>Course Length:</b>	<b>Course Time:</b>	<b>FWPS Standards (link)</b>
02072	18 Academic Weeks	67 Minutes per day OR 5 hours 33 minutes each week	<a href="https://bit.ly/2o29kWC">https://bit.ly/2o29kWC</a>
<b>Prerequisites: Algebra 1</b>			
<p><b>Required Materials:</b> Internet access, computer, modern OS/software/web browser, headphones with microphone, webcam preferred, - <i>if not built into computer</i>, Access to a printer/scanner is necessary for written assignments.</p> <p>This course uses the Apex online course textbook. All materials will be included online. However, the course requires notebook, 3 ring binder, scientific calculator, graph paper, ruler, compass, straightedge and protractor.</p>			
<p><b>Course Description:</b></p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them.</p>			

<b>Instructor Information</b>	
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## Internet Academy Syllabi

Expected Learning Outcomes	
<b>In this course, students will</b>	<ul style="list-style-type: none"><li>• Experiment with transformations in the plane</li><li>• Understand congruence in terms of rigid motions</li><li>• Prove geometric theorems</li><li>• Make geometric constructions</li><li>• Understand similarity in terms of similarity transformations</li><li>• Prove theorems involving similarity.</li><li>• Define trigonometric ratios and solve problems involving right triangles</li><li>• Apply trigonometry to general triangles</li><li>• Understand and apply theorems about circles</li><li>• Find arc lengths and area of sectors of circles</li><li>• Translate between the geometric description and the equation for a conic section</li><li>• Use coordinates to prove simple geometric theorems algebraically</li><li>• Explain volume formulas and use them to solve problems</li><li>• Visualize relationships between two-dimensional and three-dimensional objects</li><li>• Apply geometric concepts in modeling situations</li><li>• Interpret categorical and Quantitative data</li><li>• Make inferences and justifying conclusions</li><li>• Understand conditional probability and the rules of probability</li><li>• Use probability to make decisions</li><li>• Solve real-world problems given geometric information</li></ul>
<b>Standards Alignment</b>	See Course Learning Plan Contract (LPC)
<b>Assessment Methods</b>	<p><i>Formative Assessments:</i> Students take quizzes in Apex as formative assessments. The student will complete formative assessments in the means of quizzes within the online Apex textbook. Students will have up to three attempts to successfully meet the 70% or better score needed to advance to the next activity. Should the student not meet the requirement within the three attempts, the student will notify the teacher and together they will work on assisting the student to meet the requirement and move forward.</p> <p><i>Summative Assessments:</i> Checkpoints in course where students must show their mastery of concepts and skills. These summative assessments will be found within the student's math course within the iA Campus.</p> <p><b>Retake Policy:</b> Students will have multiple opportunities to achieve mastery of each priority standard. These opportunities include re-taking portions of tests.</p>
<b>Grading Methods</b>	All summative assessments will be graded according to the corresponding rubric or teacher directions. Only summative assessment scores will calculate towards a student's final grade. Each summative assessment is linked to a FWPS Priority Standard (PS).
<b>Grading Scale</b>	A = 90%-100% B = 89%-80% C = 79%-70% P = 60%-70% F = 59%-0%



## Internet Academy Syllabi

Student Expectations	
<b>Weekly Work Completion</b>	Students will submit original work in all classes each week.
<b>Original Work Submissions</b>	Students will only submit their original work. If a student uses outside sources in the creation of their original work, citations must be present in the format requested by their teacher.
<b>Weekly Communication</b>	Students will communicate weekly with their teachers regarding their academic progress.
<b>Functioning Technology/ Required Materials</b>	Students will always have constant and consistent access the functioning hardware, software, technology, and required materials necessary to complete their coursework in all classes.

iA Policies Required for Enrollment	
<b>Academic Integrity</b>	<p>Academic integrity is essential to learning. Students are expected to complete their own work. Copying, plagiarizing, cheating, or other methods of intentional deception are prohibited and could result in the student's removal from the class or iA entirely.</p> <p>IA Policy-</p> <p><u>1st Offense</u>: The student will be contacted by the teacher via phone call, the student 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.</p> <p><u>2nd Offense</u>: The student and parents will be contacted by the teacher directly and the student will have to complete the plagiarized assignment without plagiarism before moving on in the course. iA Administration will be made aware.</p> <p><u>3rd Offense</u>: The student will be withdrawn from the course or iA depending on the severity and/or frequency of the plagiarism.</p>
<b>WAC (Weekly Academic Contact)</b>	<p>Washington State law requires students to make Weekly Academic Contact (WAC). WAC is any type of contact or communication students have with teachers that is academic in nature. Students have a variety of ways to meet this requirement. They include: replying to iA Connect teacher's contact request (email/quiz); submitting an assignment; emailing teachers about class in iA Campus or Synergy; attending a virtual session or teacher's online office hours; sending the teacher a school related text message (if available); meeting a teacher or administrator on campus, in person. Students must contact iA Connect teachers each week with an attendance check-in. Additionally, class teachers expect weekly assessment submissions.</p> <p>Withdrawal for lack of Weekly Academic Contact (WAC) for 20 consecutive school days:</p> <p>After 10-15 days without WAC, iA Connect teacher checks with class teachers to see whether WAC has been made in at least one class. If WAC has been made, 'clock' resets. If no WAC has been</p>



## Internet Academy Syllabi

	<p>made, iA Connect teacher will send student and family a warning email and will call home. If no WAC by 20 days, iA Connect teacher checks to see one last time with class teachers. If there's been nothing, Admin will withdraw the student; the student may not re-enroll until the following school year.</p>
<b>MAP (Monthly Academic Progress)</b>	<p>State law also requires enrolled students to maintain monthly forward progress toward completing classes with success. Students are expected to complete one monthly module of at-standard work or have completed the teacher-prescribed plan as assigned by the certificated teacher of that course. If the assigned at-standard work is submitted, the student will be considered on pace (OP). If the assigned work is not submitted and/or is not at standard, the student will be considered behind pace (BP).</p> <p>An overall Monthly Academic Progress (MAP) score will be emailed to every student and family once a month by the iA Connect teacher to communicate overall progress towards mastery and passing of the courses; law requires BP students to reply with confirmation of the MAP report and iA teachers to document that reply. If students don't immediately reply, teachers are obligated to keep trying for a reply through additional emails or phone calls. Replies must be from the student; parent replies are not sufficient.</p> <p>Students are either On Pace (OP) or Behind Pace (BP). If a student is considered OP (by the individual teachers in individual courses) in 50% or more of their courses, they will be considered OP overall. If a student is considered behind pace (by the individual teachers in individual courses) in more than 50% of their courses they will be considered BP overall. If a student is determined to be BP for consecutive months, the iA Connect teacher will send escalating intervention plans each month by email.</p> <p>BP1 means one month behind pace; intervention typically is new work pace plan. BP2 means two months behind pace; intervention is typically a new work pace plan and directed teacher contact. BP3 means three months behind pace; course reduction or withdrawal from iA. BP4 means complete withdrawal from iA. Students withdrawn from iA at BP4 may not re-enroll until the following school year.</p>
<b>Email/Software Agreements</b>	<p>Students agree to maintain constant and consistent access to the technology and software needed to complete their iA courses. If the student cannot maintain constant and consistent access to needed technology they will be withdrawn from iA.</p>
<b>Professional Discretion</b>	<p>Teachers reserve the right to make adjustments to the course, content, pacing, and expectations at any time. Students and parents will be notified via email of any changes made after the course has started.</p>