



Course Syllabus

Course Title: Geometry AB

School Year: 2024-2025

Semester(s): 1 and 2

Grade Level(s): 9, 10, 11, 12

Course Day(s) and Times: Tuesdays and Thursdays, 3:00 pm - 4:00 pm PST

Teacher Information

- **Name:** Clayton Lutz
- **Email:** clay.lutz@brancheslearning.org
- **Office Hours:** By appointment only
- **Branches Learning Main Office Number:** (323) 955-0114

Class Materials - <https://brancheslearning.org/product/geometry/#Materials>

Course Description

Geometry is a year-long course that will challenge students to develop critical thinking and creative problem-solving skills while meeting geometry standards. Students develop analytic and logical thinking skills. Key concepts include but are not limited to, constructions, transformations, parallel and perpendicular lines, right triangles, trigonometry ratios, theorems, perimeter, area, and volume. Students will demonstrate their understanding of concepts by modeling real-world examples.

Course Units

Unit 1: Basics of Geometry

Unit 2: Reasoning and Proofs

Unit 3: Parallel and Perpendicular Lines

Unit 4: Transformations

Unit 5: Congruent Triangles

Unit 6: Relationships Within Triangles

Unit 7: Quadrilaterals and Other Polygons

Unit 8: Similarity

Unit 9: Right Triangles and Trigonometry

Unit 10: Circles

Unit 11: Circumference, Area, and Volume

Unit 12: Probability



Course Expectations

To experience the most success in this course, please review the assignments and reading before attending class. There will be opportunities to ask questions in class and through the email stated above. Attend class from a quiet place free of distractions for the meeting time. Have your materials ready, camera on, and be on time. There is an expectation that all participants will treat others politely, professionally and ask for help. There is a zero tolerance policy for plagiarism including AI works.

Grading Scale

High School, Grades 9-12

- A = 90% -100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = 0%-59%

Final grades are determined by the quality and completion of assignments, attendance, and participation.

Important Branches Learning Policy Information

Camera Policy

Branches Learning requires students to keep their cameras on during live classes unless otherwise instructed by the teacher. Exceptions can be made in rare circumstances if the course teacher, supervising teacher (HST), and the parent all approve a camera waiver.

Headset Policy

Students attending live classes from a shared space must have a headset with a microphone to ensure the class is not disrupted by background noise.

Attendance Policy

Absences must be reported to the course instructor via email or sent to info@brancheslearning.org. Class recordings are available upon requests.

Attendance and participation are part of the final grade. Students who miss more than 40% of live classes may fail the course. Exceptions may be made if a pre-approved plan is in place.

Late Work

Assignments turned in after the due date will result in a lower grade unless pre-approved by the instructor.