

Hawai'i APSI 2026 Agenda

Date: 20-23 July, 2026
Time: 8:00 am-4:00 pm
Farrington High School



Theme:

Sharing the spirit of aloha!

(The Aloha Spirit - Compassion and kindness to all with whom we cross paths in our everyday lives)

AP[®] Precalculus Course Description:

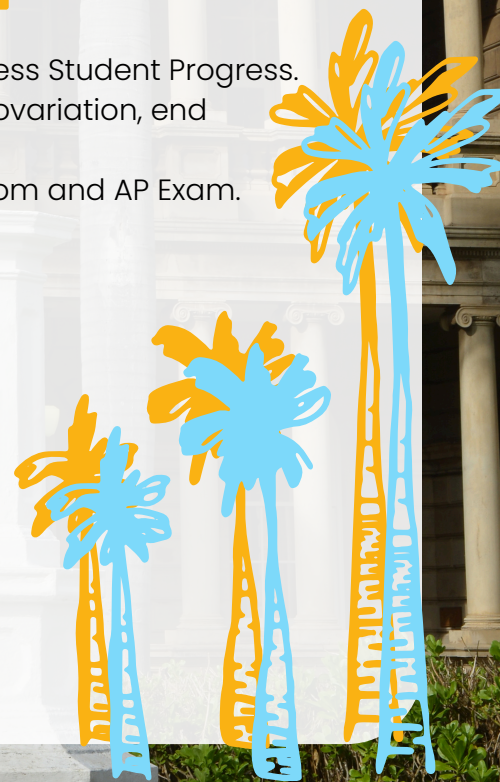
This course is for teachers preparing to teach the new AP Precalculus program. A discussion regarding course purpose and philosophy will help guide our week's work. We will fully debrief the new Course and Exam Description (CED), review content and pedagogy in course topics, and explore the AP exam question format, AP resources, supplementary materials, both in print and online, use of technology, and classroom activities to maximize learning. The primary content focus will be on the 3 assessed units, which include: Unit 1: Polynomials and Rational Functions, Unit 2: Exponential and Logarithmic Functions and Unit 3: Trigonometric and Polar Functions. Participants are asked to bring a graphing calculator and/or a laptop to use DESMOS.

The following are some of the goals for the week:

- Understand the Course, Plan the Course, Teach the Course, Assess Student Progress.
- Explore major themes of the course such as: rates of change, covariation, end behavior of functions, modeling.
- Acquaint yourself with the Course Exam Description, AP Classroom and AP Exam.
- Gain and share teaching resources.

Expected outcomes for the 4 days:

- Understand the AP Precalculus course.
- Formulate a plan to teach and assess.
- Review topics in context.
- Network with other teachers.



What should participants bring to the workshop?

- A graphing calculator and/or a laptop to use DESMOS.
- Paper/notebook and writing utensils
- Pocket folders for handouts

Agenda for Days 1-4

This schedule may change in accordance with the participant's needs as determined with the pre-survey and during the workshop.

Day 1

- Introductions and Welcome
- Course Prerequisites/"Honors Precalculus"
- Mathematical Practices in AP Precalculus
- Graphing Calculator/Technology Use
- Course Exam Description (CED): Course at Glance/Units at Glance/Unit Guides
- Textbooks/AP Course Audit/AP Central/Resources/Exam Format/Instructional Strategies
- Concepts/topics throughout the course: input/output, end behavior, functions, transformations, asymptotes, modeling, covariation, algebraic manipulation
- **Unit 1: Polynomial and Rational Functions:** Rates of change, inc/dec/concavity, points of inflection activity, odd/even, relative vs absolute extrema, real and imaginary zeros, rational functions, transformations, regression clinic, chapter 1 summative, "quick hit multiple choice."

Day 2

- **Unit 2: Exponential and Logarithmic Functions:** Population growth activities, exponential regression, linear vs exponential, composition of functions, inverse functions, exponential and logarithmic equations and inequalities, logarithmic regression, semi-log plots discovery activity; "quick hit multiple choice."
- AP Precalculus Exam Overview/Sample FRQ 1 and 2

Day 3

- **Unit 3: Trigonometry:** Basic Trig concepts and prerequisites including period, sine and cosine, trig modeling and problem-solving AP style, tangent, secant, cosecant, cotangent, inverse trig functions, trig inequalities, "quick hit multiple choice."
- AP Precalculus Exam Overview/Sample FRQ 3 and 4

Day 4



- **Unit 3: Polar:** Plotting polar coordinates, polar to rectangular, complex form of a trig number, rates of change and distance from origin, "quick hit multiple choice."
- AP Precalculus 2026 Exam Debriefing/Sample Multiple Choice
- Unit 4 Overview
- Pacing
- AP Classroom/Progress Checks/Scoring FRQ/Instructional Progress Reports/Equity Access
- Sample full Multiple Choice/Global Review/FRQ 2024-2026
- Closing Ceremonies