

PreCalculus

Course Information

Instructor - Renae Feathers

Credit = 1 credit

Cost per year - \$250

Cost breakdown per semester - \$125 (includes supply fees)

Pre-requisite - Algebra 2 (including Trigonometry), Geometry

Required Textbook/Materials:

Precalculus - Jay Abramson from OpenStax. <https://openstax.org/details/books/precalculus>



Good news: your textbook for this class is available for free online, in web view and PDF format! You can also purchase a print version, if you prefer, via the campus bookstore or Amazon using the link above (click “Order a Print Copy”). Please do not order directly from Amazon as the material cannot controlled for quality and/or accuracy.

ISBN-10 (Print-hardcover): 1-938168-34-8

ISBN-10 (Digital): 1-947172-06-9

TI-83+ Graphing Calculator
Graph paper

Course Description

OpenStax’s Precalculus textbook was written to increase student access to high-quality learning materials, maintaining the highest standards of academic rigor at little to no cost. is a college-prep course

The textbook is comprehensive and covers more ground than a typical two-semester college-level precalculus course. Therefore, as a college-prep high school course, we will not cover all of the material presented within this text. We will cover topics from Chapters 1-9, which include a study of a myriad of different functions: linear, polynomial, rational, exponential, logarithmic, periodic, and trigonometric. Trigonometric identities and equations and more advanced applications of trigonometry, including polar coordinates and complex numbers will also be studied, as well as selection of topics in analytic geometry, sequences, probabilities, and counting theories. The content is organized by clearly-defined learning objectives and includes worked examples that demonstrate problem-solving approaches in an accessible way.

A test at the end of each section, plus a midterm and a final will be given each semester for the parent to proctor at home. Homework is graded based on a rubric that gives points based on: 1)

showing work; 2) on-time submission; 3) work graded AND corrected; 4) 3-5 question weekly homework quiz taken directly from problems assigned in homework.

Student Expectations

Students are expected to read the lesson in the textbook prior to class to familiarize themselves with the content. In addition, students are expected to actively participate and complete assignments in a timely manner (which includes having assignments graded **and corrected** before submitting). Students will also be expected to thoroughly review any content that could not be covered during class time to ensure understanding, and ask questions as needed. As this is a college prep course, average homework time is 1+ hour per lesson.