# PreCalculus

## Course Information
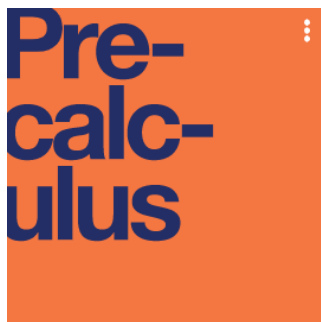
**Instructor** - Renae Feathers

**Credit** = 1 credit

**Cost per year** - $250

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

**Prerequisite** - 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! If you prefer, you can also purchase a print version, using the link above (Click "Order a Print Copy"). Please do not order directly from Amazon as the material cannot be controlled for quality and/or accuracy.

ISBN-10 (Print-hardcover): ISBN-13: 978-1-711494-00-5
ISBN-10 (Print-softcover): ISBN-13: 978-1-711493-99-2
ISBN-10 (Digital): ISBN-13: 978-1-951693-39-8

★ TI-83+ Graphing Calculator (or similar 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.

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 selected topics from Chapters 1-11, which include a study of a myriad of different functions: linear, polynomial, rational, exponential, logarithmic, periodic, and trigonometric. Trigonometric identities, equations, and more advanced applications of trigonometry, including polar coordinates and complex numbers will also be studied, as well as a selection of topics in analytic geometry, sequences, probabilities, and counting theories.

 A test at the end of each section (smaller chapters may be combined into one test), plus 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. Quizzes based on 3-5 questions taken directly from previous week's homework will be given in class weekly.

## Student Expectations

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 4+ hours per week.