



Sage Creek High School
Course Syllabus

Pre-Calculus A

2025-2026

Course Title

This Course Satisfies the UC/CSU a-g Requirement:

Pre-Calculus A

"c" – Mathematics or "g" – College Prep Elective

Purpose of the Course

At Sage Creek, Pre-Calculus-A (College Algebra) is part one of a two trimester math course paired with Pre-Calculus-B (Trigonometry). It is designed to develop students' ability to apply deductive reasoning in problem solving situations and prepare students for an introductory college-level mathematics course. Topics include equations and inequalities, functions and their graphs, polynomial and rational functions, and exponential and logarithmic functions.

Prerequisite: Algebra 2 (Required)

Course Materials

The textbook used for this course is *College Algebra, fifth edition* by Larson and Hostetler. For this course, students will need to bring a well-organized notebook with dividers, lined paper, pencils with erasers, and a scientific calculator (TI-30XS, TI-30XIIS, or similar online version recommended). In addition, we will draw on resources from Apex, Desmos, Khan Academy, and other math-related websites. Usernames should generally be created as Last name, First name.

Grading Scale

97-100%	A+	77-79%	C+
93-96%	A	73-76%	C
90-92%	A-	70-72%	C-
87-89%	B+	67-69%	D+
83-86%	B	63-66%	D
80-82%	B-	60-62%	D-
		0-59%	F

* Grades are rounded to the nearest percent at trimester end.

Assignment Values

Classwork/Homework	15%
Quizzes	25%
Exams	45%
Final	15%

- Homework will be graded based on completion, accuracy, and corrections. For college preparatory classes, approximately 30 minutes of homework will be assigned daily.
- Quizzes or tests that are missed due to an absence must be made up during tutoring before or after school within twice the number of days as the number of days absent.
- Retakes of quizzes or tests are not offered, nor are test corrections for additional credit. However, no student will be given a score of less than 30% on any attempted assessment (unless credit has been lost due to academic dishonesty).
- In addition to being worth 15% of the overall course grade, the final exam may also be used to replace the lowest test score except for a zero due to academic dishonesty.
- Students who wish to transfer from honors-level to college preparatory math can do so within the first four weeks of the course and will be given a 10% increase in their overall transfer grade.

Communication

- Detailed assignment sheets with links; notes; video lessons; and any worksheets for each unit are available on Google Classroom.
- All students should be signed up to send and receive text messages through Remind.com. This is the primary means of communication between students and the teacher.
- Grades will be posted on Aeries on a weekly basis.

Student Expectations

Build **E**mpower **S**how Spirit **T**railblaze
Together, we are being our Bobcat **B.E.S.T.**

To avoid being marked tardy, students are expected to be in their assigned seat with their materials out by the time the bell rings, and immediately begin correcting their homework with a pen using the solutions that are made available. Students must get a tardy pass if entering the classroom after the bell rings.

High school students may not use cell phones, smart watches, pagers, or other mobile communication devices during instructional time. Mobile communication devices shall be turned off and kept out of sight during instructional time. *Instructional time* is defined as any scheduled class period and any other time during the school day when students are expected to be engaged in a learning activity.

Pre-Calculus-A Pacing Guide: Sections & Topics

Unit	# of Days	Chapter/Section	Topics
1	~16	Chapter 1/Sections 1.1-1.5, 1.7	Equations and Inequalities • Graphs of Equations • Linear Equations • Modeling • Quadratic Equations • Complex Numbers • Inequalities • Absolute Value
2	~16	Chapter 2/Sections 2.1-2.6	Functions and their graphs • Linear Equations in Two Variables • Functions • Analyzing Graphs of Functions • Shifting/Reflecting/and Stretching Graphs • Combinations of Functions • Inverse Functions
3	~11	Chapter 3/Sections 3.1-3.5	Polynomial and rational functions • Quadratic Functions • Polynomial Functions of Higher Degree • Polynomial and Synthetic Division • Zeros of Polynomial Functions • Mathematical Modeling
4	~8	Chapter 5/Sections 5.1-5.4	Exponential and logarithmic functions • Exponential Functions and Their Graphs • Logarithmic Functions and Their Graphs • Properties of Logarithms • Exponential and Logarithmic Equations/Models