



Sage Creek High School
Course Syllabus

Pre-Calculus Honors

2025-2026

Assignment Values

Classwork/Homework	10%
Quizzes	20%
Tests	50%
Final Exam	20%

- Approximately 45 minutes of homework will be assigned daily and will be graded about once a week for completion, accuracy, and corrections.
- Late homework is not accepted unless due to an absence. Quizzes or tests that are missed due to an absence must be made up outside of class time within twice the number of days as the number of days absent. All quizzes and tests are required to be done in person on a school-issued chromebook.
- Retakes of quizzes or tests are not offered. However, no student will be given a score of less than 30% on any attempted assessment. In addition to being worth 20% of the overall course grade, the final exam can 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

- All assignments including relevant links, notes, video lessons, and any worksheets for each lesson and unit will be posted on Google Classroom.
- Grades will be updated on Aeries on a weekly basis.
- Both students and parents should use Gmail to communicate with their teacher from home.

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.

Academic Assistance

To make up work due to an absence, students should refer to the assignment sheet, Google Classroom, or a friend to find out the notes and assignment(s) that were missed. Students will have as many days as they were absent to make up the work. Credentialed teachers are available for tutoring - check the schedule. Please note that all coaches have agreed to allow students to attend tutoring when needed (except for game days).

Pre-Calculus Honors A Pacing Guide: Topics & Objectives

Unit	# of Days	Chapter / Section	Topics
1	~12	1.1 – 1.6 2.1 – 2.5 +other supplemental material	Functions and Change Functions and notation Rate of change and linear functions Fitting linear functions to data Input/output and domain/range Piecewise functions Composite and inverse functions Concavity
2	~8	3.1, 3.2 +other supplemental material	Quadratic Functions Solving and graphing quadratics Applications
3	~14	4.1 – 4.5 5.1 – 5.3 +other supplemental material	Exponential and Logarithmic Functions Solving and graphing exponentials Exponential vs. linear functions Applications to compound interest The number e Properties of logarithms Logarithms and exponential models The logarithmic function
4	~14	11.1 – 11.6 10.1 – 10.3 +other supplemental materials	Compositions, Inverses, and Combinations of Functions; Polynomial and Rational Functions Power, polynomial, and rational functions Short-run and long-run behaviors Comparing power, exponential, and log functions Composition and combinations of functions Inverse functions
5	~9	13.1 – 13.4 +other supplemental materials	Sequences and Series Sequences Arithmetic series Finite and infinite geometric series

Pre-Calculus Honors B Pacing Guide: Topics & Objectives

Unit	# of Days	Chapter / Section	Topics
1	~15	7.2, 7.4-7.6 +other supplemental material	Intro to Trigonometry Radian and degree measures Solving right triangles and special right triangles Unit circle Reference angles and co-terminal angles Sine, cosine, and tangent functions Inverse trig functions Non-right triangles Solving trig equations
2	~17	6.1-6.5 7.1, 7.3, 7.4 8.2-8.4 +other supplemental material	Graphs of the Trigonometric Functions Periodic functions Graphs of sine, cosine, and tangent Sinusoidal functions and graphs Transformations of graphs (shifting, reflecting, stretching/compressing) Graphs of reciprocal trig functions Graphs of inverse trig functions Inverse trig functions and solving trig equations Trig identities
3	~13	8.3 9.1-9.2 +other supplemental material	Trigonometric Identities Identities, expressions, and equations Trig functions and relationships Sum and difference formulas Double-angle and half-angle identities Simplifying, solving, evaluating, and proving trig equations/expressions
4	~8	8.5-8.6 +other supplemental materials	Polar Coordinates and Parametric Equations Polar coordinates Complex numbers Parametric equations Implicit vs. explicit equations Circles, ellipses, hyperbolas