

Precalculus (Honors)

Highland Academy, 2017-2018

Purpose

Precalculus continues the exploration of functions that was begun in Algebra II. Its purpose is to equip the learner with the mathematical tools and conceptual understanding needed for calculus and some college science classes.

General Course Topics

Functions and Graphing
Polynomials and Rational Functions
Exponents and Logarithms
Trigonometric Functions and their Application
Systems and Matrices
Analytic Geometry
Series, Sequences, Probability and Statistics
Limits, Derivatives and Integrals

Assessment

All classwork will be viewed in the light of the teacher's expectations, which will be clearly communicated for each assignment. Exceptional scores require exceptional performance.

This is how much each type of learning assessment counts:

- Tests: 30%--given after each chapter. They will consist mainly of problems, as well as some T/F or multiple choice concept questions.
- Quizzes: 30%--given at any time over whatever we've been doing recently. Quizzes will occur a couple times for every chapter. They will usually consist of working a few problems.
- Homework: 40%--given in association with the problem sets in the textbook.

Assessing Student Work

Unless another scoring rubric is specified, the following will be used to assess student work:

- Quizzes and Homework with 10 or more questions: scores will be determined by taking the percent correct
- Tests: scores will be determined by taking the percent correct and adding to this an adjustment based on the performance of the entire class on a given test. The adjustment will be an offset sufficient for all students whose percent is 1 standard deviation above the mean (or greater) to receive a score in the coveted 90-100 range. This same adjustment will be applied to all students' percents. The instructor reserves the right to limit the adjustment to 15 points added to the students' percents. For classes involving small numbers of students, this offset might be a judgment call by the instructor, based upon previous scores of larger classes over similar material.
- Quizzes and Homework with less than 10 items: scores will represent a percent of the teacher's expectations. Scores will be separated by increments of 5 points: 5 points off for each minor mistake; 10 points off for each major mistake.

100% fully met or exceeded teacher's expectations

95% a minor mistake

90% 2 minor mistakes or a single significant mistake, and so on

0% assignment not turned in or made up

Letter grades will be issued according to the following scale: A: 93-100 A-: 90-92

B+: 87-89	B: 83-86	B-: 80-82
C+: 77-79	C: 73-76	C-: 70-72
D+: 67-69	D: 63-66	D-: 60-62
F: < 60		

Late Work

Tests, Quizzes, and Homework are to be made up as soon as possible after returning from an absence. The general rule will be for the quiz, test, or homework assignment to be completed within the number of days missed, from the time of returning to class. (Example: Johnny is out of class on Thursday and Friday, missing a quiz. Johnny returns to class on Monday. Johnny will have two days, for the two days missed, to make up the quiz for full credit. Johnny will need to take the quiz before class Wednesday or receive 20 points out of the 100% trimmed off of his score for each day thereafter that he waits. After 5 school days from this deadline, no credit will be given for taking the quiz.)

For late work that is submitted, unrelated to an absence, 20 points out of the 100% will be trimmed off of the score for each day late after the due date.

Exceptions might be made to this late work policy for catastrophic illnesses and for other extreme circumstances. These circumstances will be determined by the instructor and principal.

Behavioral Expectations

- interact orderly and courteously; speak one at a time.
- treat the building and equipment with care.
- come to class with what you need -- pencil, notebook, textbook.
- absences and tardies will be handled according to the school policy.
- no food, drink or gum.
- visits to the restroom will be allowed if they don't become excessive. What constitutes excessive will be a judgment call of the instructor. (These visits are for emergencies.)
- it is THE STUDENT'S RESPONSIBILITY to find out what was missed when absent by looking at the assignment web page, by asking the teacher or by asking a classmate.
- class time is to be used for working on Precalculus tasks.