



Syllabus

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Tips for Success

If you're new to online courses, or if you just need a quick refresher, be sure to take a look at the Student and Parent Handbook.

Prerequisites

Seventh-grade math (MATH 31 and MATH 33, or their seventh-grade equivalents).

Course Learning Outcomes

After you have successfully completed this course, you should be able to do the following:

- Solve diverse types of equations using properties of equality, the distributive property, and like terms; write equations with one variable to represent real-world situations.
- Write linear equations given graphs, tables, or points; find the slope and constant rate of change; and determine if a linear equation is proportional.
- Write equations and solve systems of equations by using graphing, substitution, elimination, and algebraic methods.
- Identify and represent functions; identify the type of function; construct functions in different representations, including graphs, equations, and numeric and verbal forms; identify different parts of a function and compare different functions with each other as they apply in everyday situations; and interpret functions to give them meaning.

- Work with exponents, their expressions, and rules of use; identify how exponents can be helpful in expressing very large or small quantities; and perform operations with numbers expressed in scientific notation.
- Use the number system to work with and compare rational and irrational numbers; determine the value of numbers; use rational approximations for irrational numbers; and identify the meaning and properties of roots.

Course Materials

Textbook

McGraw-Hill. *Glencoe Math, Your Common Core Edition*. Course 3, vol. 1. 1st ed. Columbus, OH: McGraw-Hill, 2013. (ISBN-13: 978-0-07-661530-8).

Calculator

Texas Instruments Explorer 30 (TI-30) or other graphing calculator with similar capabilities.

Assignments

You will complete these assignments during the course.

Self Checks

Complete all Self Check questions at the end of each lesson. Although these are not graded, it is essential that you practice the skills you will be learning.

Unit Reviews

Complete the reviews at the end of each unit. You can consider these assignments practice quizzes that will help you to make sure you are ready to complete the unit quiz.

Unit Quizzes

Complete all six units and the required unit quiz for each.

Exams

You will complete one final exam for this course. The comprehensive final examination consists of 50 questions from the six units. A calculator is allowed as long as no notes are stored in it.

Grading

Your grade in this course will be based on these assignments and exams:

ASSIGNMENT OR EXAM	GRADING	PERCENT OF TOTAL GRADE
6 Unit Quizzes	Computer	60%
1 Final Exam	Computer	40%

Grade Scale

Your letter grade is calculated according to these percentages.

A	100% – 93%
A-	92% – 90%
B+	89% – 87%
B	86% – 83%
B-	82% – 80%
C+	79% – 77%
C	76% – 73%
C-	72% – 70%
D+	69% – 67%
D	66% – 63%
D-	62% – 60%
E (fail)	59% – 0%