

Outline of Beginning Algebra I Course Description

This course covers the general principles of beginning algebra and directly builds upon the materials learned in Basic Math / Pre-Algebra. The course expands upon the student's ability to work with expressions by introducing variables. The student will also be introduced to: exponents, polynomials, solving one and two variable linear equations, and straight line graphing. There is also a strong emphasis in solving problems with application in a real-world scenario.

Course Mechanics:

- -3-5 hours of lecture a week (or 5 hours of online video)
- Weekly or every other week quizzes
- 1-3 midterms (online or in class)
- -One final (almost always in class)

A typical student should expect to spend about 3-5 hours in class (or watching online videos) and an additional 10-15 doing homework and studying **per** week.

Topics Covered and Required Prereq skills

Topic	Pre-req required
Use of variables in expressions	Pre-Algebra
involving adding, subtraction,	Order of Operations
multiplication and division.	•
	Pre-Algebra
Operations with integers and rationales.	Order of Operations, Fractions
	Pre-Algebra
Graphing functions.	Fractions
Solving linear equations in	Pre-Algebra
one/two variable(s).	Order of Operations

PREPARING FOR THE COURSE

The following things can be done to help prepare for the course.

Prepare a notebook: Prepare a binder for keeping all of your returned math homework and quizzes. The final is most likely comprehensive; having all of your completed and graded work neatly grouped by topic will help a lot with studying for the final.

Purchase a scientific calculator: If you do not already own a scientific calculator, purchase one that allows you to see and edit your previous entry. Some calculators that can do this are: TI-30X IIS and the TI-83 both from Texas Instruments.

Brush up on Pre-algebra (Basic Math): If you have old math books, revisit: Order of Operations, Negative Numbers, Fractions, and Factors and Multiples.

ADDITIONAL RESOURCES

ONLINE ALGEBRA I MATERIALS:

HTTPS://WWW.KHANACADEMY.ORG/MATH/ALGEBRA

ONLINE PRE-ALGEBRA REVIEW:

HTTPS://www.khanacademy.org/math/pre-algebra (Relevant topics: Arithmetic Properties, Fractions, Factors and Multiples, Negative Numbers)

Beginning Algebra I (Math 081) Pretest http://www.seattlecentral.edu/learn/math/place ment/AreYourReadyFor084.PDF Online test that looks at how much material was

Training Fund Tutoring:

retained from math 081.

Both online and in-person group tutoring is available by request check out: http://healthcareerfund.org/tutoring/