Intermediate Algebra



PREPARING FOR THE COURSE

Outline of Intermediate Algebra

Course Description

This course covers the general principles of intermediate algebra and directly builds upon the materials learned in Beginning Algebra I and II. The course expands upon working with functions and rational expressions. The course introduces logarithmic functions, imaginary numbers and piecewise functions.

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. Hybrid classes require more studying on your own.

Topics Covered and Required Pre-req skills

Торіс	Pre-req required
Exponents and Scientific Notation	Algebra I Exponents
Factoring Polynomials	Algebra I Polynomials
Working with Rational Expressions	Basic Math Fractions
Graphing and Solving Quadratics Equations	Algebra I Intro to Graphing
Radical Expressions	Basic math Use of the Square Root Operator

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 your Beginning Algebra I and II: If you have old math books, revisit: factoring quadratics, the quadratic equation, working with roots and radicals, working with functions, graphing equations in the form of y=mx+b, and exponents.

ADDITIONAL RESOURCES

ONLINE INTERMEDIATE ALGEBRA MATERIALS:

HTTPS://WWW.KHANACADEMY.ORG/MATH/ALGEBRA2

(NOTE: CONIC SECTIONS AND MATRIXES WILL MOST LIKELY NOT BE COVERED IN INTERMEDIATE ALGEBRA)

ONLINE ALGEBRA I AND II REVIEW:

HTTPS://WWW.KHANACADEMY.ORG/MATH/ALGEBRA/INT RODUCTION-TO-ALGEBRA

(Relevant topics: Multiplying and Factoring Expressions, Quadratic Equations, Functions)

Training Fund Tutoring:

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