Intermediate Algebra [Math 098]



[Outline of the Course]

Course Description

This course covers the general principles of intermediate algebra and directly builds upon the materials learned in Algebra I and II (Math 084 and 085). 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.

Topics Covered and Required Prerequisite skills

Торіс	Prereq required
Solving Quadratic	Algebra I and II Working
Equations	with Polynomials
	(focus on trinomials)
Complex Numbers	Algebra II Roots and
	Radicals
Working with	Algebra II Intro to
Rational Expressions	Functions
and Functions	
Functions and	Algebra I Intro to
Transformations	Graphing
(focus on parabolas)	
Exponent and Logs	Algebra I Exponents
	1

[PREPARING FOR THE COURSE]

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

Prepare a notebook: Prepare a binder to keep all your returned math homework and quizzes in. The final is most likely comprehensive; having all 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. Note that the Training Fund usually does not reimburse calculator purchase.

Brush up on your Algebra I and II: If you have old algebra books revisit: factoring quadratics, the quadratic equation, working with roots and radicals, working with functions, graphing equations of the form 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 MATH 098)

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/