

Syllabus for UW XMA093

Intermediate Algebra

NOTE: This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

Course Description

Emphasizes algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations and inequalities. Introduction to functions, their graphs, and analytic geometry.

Prerequisite(s)

Grade of C or better in MA091 or placement into MA093

Course Outcomes

Upon completing this course, you will be able to do the following:

- Understand how the order of operations utilized in arithmetic extends to algebraic expressions.
- Extend the rules of integer exponents to rational exponents and learn to apply these in simplifying algebraic expressions.
- Formulate simple real-world applications in one or more variables and solve them algebraically and/or graphically.
- Explore various forms of linear equations, their graphs and the interpretation of their parameters.
- Become familiar with a variety of factorization techniques and their use in solving equations involving polynomials, rational expressions and radicals.
- Work in the rectangular/Cartesian coordinate system with linear equations and other equations. Use the algebraic skills learned to solve real world applications problems.
- Where appropriate, use scientific/graphing calculator to explore and answer various algebraic questions.
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Course Requirements/Components

You will be graded on your completion of quizzes, discussions, exercises, and two exams.

Grading

Your final grade will be based on your performance on quizzes, online homework problem sets, discussions, and two exams.

Grade	Percentage Range
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	60% - 66%
F	59% and under

Assignment	Percent
Quizzes (5)	20%
Discussions (7)	10%
Online Homework	20%
Midterm Exam	25%
Final Exam	25%
Total Points	100%