



MATH 0990

Division: Natural Science and Mathematics

Department: Mathematics

Course: MATH 0990

Title: Beginning Algebra (formerly Pre-Algebra)

Catalog Description:

This course is a review of math principles including order of operations with fractions, exponents, linear equations and inequalities in one and two variables, application problems, polynomials, factoring, and radicals. This course is designed for students who need a condensed review of high school Algebra I. This course prepares students for Math 1010. **Prerequisites: ACT score of 15-17 or an appropriate Accuplacer Score.**

General Education Requirements: N/A

Semesters Offered: Fall, Spring

Credit/Time Requirement: Credit: 3; Lecture: 3; Lab: 0

Clock/Hour Requirements: 0

Offered for Non-Credit: No

Prerequisites: An ACT of 15-17 meets placement requirements. See the advisement center for more information.

Corequisites: None

Justification:

This course is for those students who are unprepared for college level mathematics work. This course is designed to prepare students for MATH 1010. This course is similar to math courses taught at Salt Lake Community College, Weber State University, and Utah Valley University.

Student Learning Outcomes:

At the conclusion of the 0990 course the students will be able to:

1. Simplify algebraic expressions using their knowledge of fractions, exponents, roots, and radicals.
2. Set up and solve a variety of application problems using linear equations, proportions and formulas.
3. Solve and graph a variety of linear equations and inequalities in one and two variables for a desired variable or quantity.
4. Write and manipulate linear equations in two variables.
5. Perform operations with and factor a variety of polynomials.

Content:

Content consists of: order of operations with fractions, exponents, linear equations and inequalities in one and two variables, application problems, polynomials, factoring, and radicals.

General Education Outcomes:

6) Apply computational skills to a variety of contexts.

Upon successful completion of this course, students will be able to perform quantitative calculations. Homework exercises and exam problems assess the competency of student skills in a variety of theoretical and applied situations. Students will receive feedback on corrected homework exercises and exams.

Key Performance Indicators:

Students will be assessed by homework (15%), quizzes (25%), and exams (60%). Percentages are approximate.

Representative Text and/or Supplies:

"Beginning and Intermediate Algebra" by Lial and Miller, current edition, published by Pearson.

Optimum Class Size: 25

Maximum Class Size: 36

Signatures:

I hereby submit this course syllabus:

Jonathan Bodrero, M.S., Assistant Professor

I hereby find this course consistent with the goals and resources of the Mathematics Department:

Kari Arnoldsen, PhD, Professor, Chair

I hereby find this course consistent with the goals and resources of the Natural Science and Mathematics Division:

Dan Black, EdD, Associate Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)