MATH 0990

Division: Natural Science and Mathematics
Department: Mathematics
Course: MATH 0990
Title: Beginning Algebra
Catalog Description:

This course is a review of math principles including order of operations withfractions, exponents, linear equations and inequalities in one and twovariables, application problems, polynomials, factoring, and radicals. Thiscourse 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: 4; Lecture: 4; Lab: 0
Clock/Hour Requirements: 0
Offered for Non-Credit: No
Prerequisites: An ACT of 15-17 or appropriate Accuplacer score. (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 C ommunity 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 ofoperations with fractions, exponents, linear equations and inequalitiesin oneand 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 15-30%

Quizzes 0-20%

Group Projects 0-15%

Chapter / Midterm Exams 30-60%

Comprehensive Final Exam* 15-25%

*A minimum score of 70% on the final exam is required in order to earn a grade of C or higher in Math 0990. Students must earn a grade of C or higher in order to advance to MATH 1010.

Representative Text and/or Supplies:

A representative example would be: "Beginning Algebra" by Lial and Miller, current edition, published by Pe arson.

Optimum Class Size: 25
Maximum Class Size: 36

Signatures:

I hereby submit this course syllabus:

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Omel Contreras, M.A., Assistant Professor

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

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Kari Arnoldsen, PhD, Professor, Chair

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

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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)