MATH 0990

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

Review of basic math principles including addition, subtraction, multiplication, fractions, and decimals. The course will also include a review of geometry and introduce basic algebraic concepts including signed numbers, equations and graphing.

General Education Requirements: N/A
Semesters Offered: Fall, Spring
Credit/Time Requirement: Credit: 4; Lecture: 5; Lab: 0
Clock/Hour Requirements: 0
Offered for Non-Credit: No
Prerequisites: Permission from Student Support Services required.

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 which will then lead to one of three different general education math classes including MATH 1030, MATH 1040, or MATH 1050.

Student Learning Outcomes:

Students will:learn basic operations on the real number system,understand the concept of a variable and be able to simplify or evaluate basic polynomial expressions,learn to manipulate and solve linear and quadratic equations,become prepared to continue to the next appropriate math class,understand graphing concepts and be able to graph linear functions,and become familiar with practical applications in the realm of mathematics.

Content:

Content consists of: arithmetic with signed numbers, properties of numbers, fractions, decimals, percents, ratios, proportions, an introduction to algebra including: equations and inequalities, exponents, polynomials, factoring, graphing and application problems

General Education Outcomes:

6) Apply computational skills to a variety of contexts.

In this course students are taught how to perform quantitative calculations. Homework exercises and exam problems assess the competency of student skills variety of theoretical and applied situations.

Key Performance Indicators:

In class: Students will be assessed by homework(10-25%), quizzes(5-25%), and exams(40-70%).Out of class: Success rate in their next math experience.

Representative Text and/or Supplies:

Latest edition of a pre-algebra book.

Optimum Class Size: 25
Maximum Class Size: 25

Signatures:

I hereby submit this course syllabus:

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Jonathan Bodrero, M.S., 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:

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

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)