Course Outline

COURSE: MATH 413  DIVISION: 10  ALSO LISTED AS:

TERM EFFECTIVE: Spring 2017  CURRICULUM APPROVAL DATE: 03/28/2016

SHORT TITLE: MATH IMMERSION BASIC LEVEL 1

LONG TITLE: Math Immersion Review - Basic Concepts Level 1

Units  Number of Weeks  Type  Contact Hours/Week  Total Contact Hours
1 TO 2  18  Lecture: 1 TO 2  18 TO 36
         Lab: 0          0
         Other: 0         0
         Total: 1 TO 2    18 TO 36

COURSE DESCRIPTION:

A remedial mathematics course designed for those students who need to learn, or re-learn, the fundamental concepts of math. The primary focus is on operations with whole numbers, fractions, decimals, percentage and real life problems. This is a pass/no pass course. Units earned in this course do not count toward the associate degree and/or certain certificate requirements. This class is an intense preparation for Math 402, Math 430 or Math 411 and Math 235.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: C - Credit - Degree Non Applicable

GRADING MODES
P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:
02 - Lecture and/or discussion

STUDENT LEARNING OUTCOMES:
1. Perform Basic operations with whole numbers, fractions, decimals and signed numbers w/o the use of a calculator.
Measure: Homework assignment, exam
PLO:

4/18/2016
ILO: 2,1,6
GE-LO:
Year assessed or anticipated year of assessment: Spring 2018
2. Solve basic percentage problems using a variety of strategies.
Measure: HW, exam
PLO:
ILO: 1,2,3
GE-LO:
Year assessed or anticipated year of assessment: Spring 2018
3. Formulate and solve word problems using a variety of strategies
Measure: Homework assignment, exam
PLO:
ILO: 2,1
GE-LO:
Year assessed or anticipated year of assessment: Spring 2018
4. Identify and discriminate algebraic structures
Measure: class report, exam
PLO:
ILO: 1,2,6
GE-LO:
Year assessed or anticipated year of assessment: Spring 2018

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Curriculum Approval Date: 03/28/2016
1 unit Class
Pre - Test 1 hours Signed numbers - 6.5 hours
Classwork/Homework
Complete problems on operations with signed numbers including the order of operations problems.
Performance Objective
Students will demonstrate the ability to perform operations with signed numbers.
Fractions - 7.5 hours
Classwork/Homework
Students will be able to complete basic operations with signed fractions and solve linear equations involving fractions.
Performance Objective:
Students will demonstrate ability to simplify fractions, find the LCD of fractions, and perform basic operations with fractions w/o calculator, and solve equations involving fractions + related application problems.
Solving word problems - 1 hour
Classwork/Homework
Performance Objective:
Students will be able to identify and apply general strategies complete computations for application problems.
Final Exam - 2 hours.
2 Unit Class
Covers all the topics of 1 unit Class +
Simplifying Algebraic Expressions - 3.5 hours.
Classwork/Homework
Performance Objective -
Students will be able to identify like terms, combine them, and use the distributive property.

**Linear Equations/Applications - 7.5 hours**

**Performance Objective**
Students will be able to apply Multiplication and Addition Properties of Equality to solution of Linear Equations. Students will be able to formulate, analyze, and solve real life problems.

**Algebraic Structures - 2.5 hours**

**Classwork/Homework**

**Performance Objective:**
Students will be able to identify and discriminate different algebraic structures, i.e. difference of two squares from the square of the difference.

**Naming Algebraic Structures - 3.5 hours**

**Performance Objective**
Students will be able to use the algebraic and symbolic language to express and name the algebraic structures.

**Final Exam - 2 hours**

**METHODS OF INSTRUCTION:**
Lectures, group work

**METHODS OF EVALUATION:**

**Category 1** - The types of writing assignments required:
Percent range of total grade: 0 % to%

**Category 2** - The problem-solving assignments required:
Percent range of total grade: 90 % to 100 %

Homework Problems

Exams

**Category 3** - The types of skill demonstrations required:
Percent range of total grade: 0 % to %

**Category 4** - The types of objective examinations used in the course:
Percent range of total grade: 0 % to %

**REPRESENTATIVE TEXTBOOKS:**

Required:

Reading level of text, Grade: 12th  Verified by: Ken Wagman

**ARTICULATION and CERTIFICATE INFORMATION**

Associate Degree:
CSU GE:
IGETC:  
CSU TRANSFER:  
    Not Transferable  
UC TRANSFER:  
    Not Transferable  

SUPPLEMENTAL DATA:  
Basic Skills: B  
Classification: Y  
Noncredit Category: Y  
Cooperative Education:  
Program Status: 2 Stand-alone  
Special Class Status: N  
CAN:  
CAN Sequence:  
CSU Crosswalk Course Department:  
CSU Crosswalk Course Number:  
Prior to College Level: C  
Non Credit Enhanced Funding: N  
Funding Agency Code: Y  
In-Service: N  
Occupational Course: E  
Maximum Hours: 2  
Minimum Hours: 1  
Course Control Number: CCC000560330  
Sports/Physical Education Course: N  
Taxonomy of Program: 170100