

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

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
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:

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:

Alan Tussy. Developmental Mathematics for College Students. Brooks Cole, 2013. Or other appropriate college level text.

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