

Course Outline

COURSE: MATH 412 **DIVISION:** 10 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2021 **CURRICULUM APPROVAL DATE:** 06/8/2021

SHORT TITLE: MATH REFRESHER

LONG TITLE: Math Refresher

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
.5	18	Lecture:	.5	9
		Lab:	0	0
		Other:	0	0
		Total:	.5	9

COURSE DESCRIPTION:

A developmental intensive math course designed to be a refresher for students who wish to review basic math concepts before enrolling in transfer level Math courses. The primary focus is on operations with whole numbers, fractions, decimals and percentages. This is a pass/no pass course. Units earned in this class do not count toward the associate degree and/or certain certificate requirements.

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

05 - Hybrid

71 - Dist. Ed Internet Simultaneous

72 - Dist. Ed Internet Delayed

STUDENT LEARNING OUTCOMES:

By the end of this course, a student should:

1. Perform basic operations with whole numbers, fractions, decimals, and signed numbers without the use of a calculator
2. Utilize math specific study skills and test taking strategies
3. Solve basic percentage problems using proportions and equations

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Curriculum Approval Date: 06/8/2021

1 hours

Content: operations with whole numbers

Student Performance Objectives (SPO): The student will be able to add, subtract, divide, and multiply whole numbers w/o using the calculator.

Out-of-Class Assignments: HW handout - order of operations on whole numbers

2 hours

Content: Operations with Fractions

Student Performance Objectives (SPO):

Student will demonstrate the ability to complete basic operations with fractions

Out-of-Class Assignments: HW assignment - operations on fractions + order of operations

2 Hours

Content: Signed numbers.

Student Performance Objectives (SPO): Student will be able to complete basic operations with positive and negative numbers

Out-of-Class Assignments: Handout - operations on real numbers

1 Hours

Content: Operations with decimals.

Student Performance Objectives (SPO): student will be able to complete basic operations with decimals

Out-of-Class Assignments: Handout - order of operations with decimals

2 Hours

Content: Percents

Student Performance Objectives (SPO): Student will be able to convert percent to decimal and fraction and vice versa + solve basic application problems involving percents

Out-of-Class Assignments: HW assignment - conversion with percents , decimals and fractions

1 Hour Final Test

METHODS OF INSTRUCTION:

Lectures, group work

OUT OF CLASS ASSIGNMENTS:

Required Outside Hours: 4

Assignment Description:

Homeworks Assignment: Order of operations on whole numbers

Required Outside Hours: 4

Assignment Description:

HW assignment - operations on fractions + order of operations

Required Outside Hours: 4

Assignment Description:

HW assignment - conversion with percents , decimals and fractions

Required Outside Hours: 6

Assignment Description:

HW assignment- operations on real numbers

METHODS OF EVALUATION:

Skill demonstrations

Percent of total grade: 90.00 %

Percent range of total grade: 90 % to 100 % Class Performance/s Performance Exams

Objective examinations

Percent of total grade: 10.00 %

Percent range of total grade: 0 % to 10 % Multiple Choice True/False Completion

REPRESENTATIVE TEXTBOOKS:

Alan Tussy. Basic Mathematics for College Students. Brooks Cole,2019.

ISBN: 1337618403

Reading Level of Text, Grade: 12 Verified by: K. 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:

Minimum Hours:

Course Control Number: CCC000571985

Sports/Physical Education Course: N

Taxonomy of Program: 170100