GAVILAN COLLEGE
5055 Santa Teresa Blvd
Gilroy, CA 95023

# Course Outline

**COURSE:** MATH 413 DIVISION: 10 ALSO LISTED AS:

TERM EFFECTIVE: Fall 2021 CURRICULUM APPROVAL DATE: 3/08/2022

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 Prealgebra, Elementary and Intermediate Algebra.

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 w/o the use of a calculator.
2. Solve basic percentage problems using a variety of strategies.
3. Formulate and solve word problems using a variety of strategies
4. Identify and discriminate algebraic structures

**COURSE OBJECTIVES:**

By the end of this course, a student should:

1. 1-unit class: Solve operations with signed numbers including the order of operations problems.
2. 1-unit class: Solve basic operations with signed fractions and solve linear equations involving fractions.
3. 1-unit class: Identify and apply general strategies complete computations for application problems.
4. 2-unit class: Identify like terms, combine them, and use the distributive property.
5. 2-unit class: Apply multiplication and addition properties of equality to solution of linear equations.
6. 2-unit class: Identify and discriminate different algebraic structures, e.g. difference of two squares from the square of the difference.
7. 2-unit class: Use the algebraic and symbolic language to express and name the algebraic structures.

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

Curriculum Approval Date: 3/08/2022

1-unit class

1 hour

Pre-Test

6.5 hours

Operations with signed numbers, order of operations

7.5 hours

Operations with signed fractions and solve linear equations involving fractions.

1 hour

Solving word problems: general strategies and computations

2 hours

Final Exam

2-unit class

All the topics of 1-unit class plus:

3.5 hours

Simplifying algebraic expressions: like terms, the distributive property

6.5 hours

Linear equations/Applications: multiplication and addition properties of equality

2.5 hours

Algebraic structures

3.5 hours

Naming algebraic structures

2 hours

Final Exam

**METHODS OF INSTRUCTION:**

Lectures, group work

**OUT OF CLASS ASSIGNMENTS:**

Required Outside Hours 36

Assignment Description

1 unit

1. Analyze and study pertinent text material, solved examples and lecture notes.
2. Apply principles and skills covered in class by solving regularly-assigned homework problems.
3. Regularly synthesize course materials in preparation for exams.

Required Outside Hours 72

Assignment Description

2 units

1. Analyze and study pertinent text material, solved examples and lecture notes.
2. Apply principles and skills covered in class by solving regularly-assigned homework problems.
3. Regularly synthesize course materials in preparation for exams

**METHODS OF EVALUATION:**

Problem-solving assignments
Evaluation Percent 50
Evaluation Description
Percent range of total grade: 30-70% Homework Problems

Objective examinations
Evaluation Percent 50
Evaluation Description
Percent range of total grade: 30-70% Exams

**REPRESENTATIVE TEXTBOOKS:**

Basic Mathematics for College Students, 6e, Alan Tussy, David Gustafson, Diane Koenig, Cengage Learning, 2019.

ISBN: 9780357687574 (eText); 1337618403 (hardcover)

12 Grade 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:
Minimum Hours:
Course Control Number: CCC000560330
Sports/Physical Education Course: N
Taxonomy of Program: 170100