GAVILAN COLLEGE
5055 Santa Teresa Blvd
Gilroy, CA 95023

Course Outline

COURSE: DRLT 205 DIVISION: 50 ALSO LISTED AS:

TERM EFFECTIVE: Fall 2016 **Inactive Course**

SHORT TITLE: MATHEMATICS REVIEW

LONG TITLE: Mathematics Review

Units	Number of Weeks	Type	Contact Hours/Week	Total Contact Hours
2	1	Lecture:	32	32
		Lab:	4	4
		Other:	0	0
		Total:	36	36

COURSE DESCRIPTION:

This course covers mathematics applications to drywall and lathing trades with specific focus on mathematical processes related to construction. Basic topics include whole numbers, fractions, decimal fractions, ratios, proportions, percentages, areas and volumes. This course has the option of a letter grade or pass/no pass.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: C - Credit - Degree Non Applicable

GRADING MODES
- L - Standard Letter Grade
- P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:
- 02 - Lecture and/or discussion
- 03 - Lecture/Laboratory
- 04 - Laboratory/Studio/Activity

STUDENT LEARNING OUTCOMES:

1. Apply mathematics such as addition, subtraction, multiplication, and division

with whole numbers, decimals, and fractions used on construction projects.

Measure: Quizzes, exams, performance testing

PLO: 1

ILO: 7, 1, 2, 3, 6

GE-LO:

Year assessed or anticipated year of assessment: 2014

2. calculate perimeter measurements, arc measurements, volume measurements, and weights.

Measure: research paper, exams and performance testing

PLO: 1

ILO: 7, 2, 3, 6

GE-LO:

Year assessed or anticipated year of assessment: 2014

PROGRAM LEARNING OUTCOMES:

1. Attain journey level skills needed to be successful in residential and commercial construction.

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

Inactive Course: 11/28/2016

Out-of-class assignments: For each topic, the student will read chapters and do the homework assignments at the end of the those chapters. 4 Hours

The value of whole numbers

Adding and subtracting whole numbers

Multiplying and dividing whole numbers

SLO: The student will mathematically construct, calculate and use whole numbers taken from blueprints and building.

Assignments: Read the chapters covered in the lecture and answer the study guide question on the assigned subject. Locate and read in the text or online regarding using whole numbers.

6 Hours

The value of fractions

Multiplying and dividing fractions

SLO: The student will mathematically construct, calculate and use fractions taken from blueprints and building.

Assignments: Read the chapters covered in the lecture and answer the study guide question on the assigned subject. Locate and read in the text or online regarding applications of fractions for Drywall/Lathers installment.

6 Hours

The value, adding and subtracting decimal fractions

Multiplying and dividing decimal fractions

SLO: The student will mathematically construct, calculate and use decimal fractions taken from blueprints and building.

Assignments: Read the chapters covered in the lecture and answer the study guide question on the assigned subject. Locate and read in the text or online regarding applications of decimal fractions for Drywall/Lathers installment.

9 Hours

Equations, ratios and proportions

The value of percentages

SLO: The student will mathematically construct, calculate and use equations, ratios, proportions and percentages taken from blueprints and building.

Assignments: Read the chapters covered in the lecture and answer the study guide question on the assigned subject. Locate and read in the text or online regarding applications of equations, ratios, proportions and percentages for Drywall/Lathers installment.

9 Hours

Perimeters and areas of plane figures

Surface area and volume of solids

SLO: The student will mathematically construct, calculate and use perimeters and areas of plane figures taken from blueprints and building. The student will mathematically construct, calculate and use surface area and volume of solids taken from blueprints and building.

Assignments: Read the chapters covered in the lecture and answer the study guide question on the assigned subject. Locate and read in the text or online regarding applications of perimeters and areas of plane figures, and surface area and volume of solids for Drywall/Lathers installment.

2 Hours

Final examination and term projects

METHODS OF INSTRUCTION:

A. Lecture and discussion
B. Visual aids
C. Demonstrations
D. Group hands-on exercise
E. Individual hands-on exercise
F. One-on-one hands-on instruction

METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 10 % to 30 %

Written Homework

Reading Reports

Lab Reports

Essay Exams

Term or Other Papers

If this is a degree applicable course, but substantial writing assignments are NOT appropriate, indicate reason:

Course primarily involves skill demonstration or problem solving

CATEGORY 2 - The problem-solving assignments required:

Percent range of total grade: 10 % to 40 %

Homework Problems

Field Work

Lab Reports

Quizzes

Exams

CATEGORY 3 - The types of skill demonstrations required:

Percent range of total grade: 20 % to 70 %

Class Performance/s

Field Work
Performance Exams
CATEGORY 4 - The types of objective examinations used in the course:
Percent range of total grade: 10 % to 30 %

Multiple Choice
True/False
Matching Items
Completion

REPRESENTATIVE TEXTBOOKS:

Required:

CTCNC. Construction Math, Discrimination in the Workplace. U.S.A.: CTCNC, Textbooks are used in the classroom only. This is a standard textbook used in the Industry. Or other appropriate college level text.

Reading level of text, Grade: 10Verified by: dvt

ARTICULATION and CERTIFICATE INFORMATION

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

SUPPLEMENTAL DATA:

Basic Skills: N
Classification: Y
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department:
CSU Crosswalk Course Number:
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: A
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000507779