Course Outline

COURSE: DRLT 205  DIVISION: 50  ALSO LISTED AS:  

TERM EFFECTIVE: Fall 2016  Inactive Course  

SHORT TITLE: MATHEMATICS REVIEW  

LONG TITLE: Mathematics Review  

<table>
<thead>
<tr>
<th>Units</th>
<th>Number of Weeks</th>
<th>Type</th>
<th>Contact Hours/Week</th>
<th>Total Contact Hours</th>
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<td>2</td>
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<td>Lecture</td>
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<td></td>
<td></td>
<td>Lab</td>
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<td></td>
<td>Other</td>
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<td></td>
<td></td>
<td>Total</td>
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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  

12/5/2016
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
12/5/2016
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 %

12/5/2016
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: 10 Verified 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
12/5/2016
Sports/Physical Education Course: N
Taxonomy of Program: 095280