Course Outline

COURSE: CARP 205  DIVISION: 50  ALSO LISTED AS:

TERM EFFECTIVE: Fall 2016  Inactive Course

SHORT TITLE: BLUEPRINT READING

LONG TITLE: Blueprint Reading-Basic, Fringe Benefits Presentation

<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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<tr>
<td>2.5</td>
<td>1</td>
<td>Lecture: 30</td>
<td>30</td>
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<td></td>
<td></td>
<td>Lab: 6</td>
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<td>Other: 0</td>
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<td>Total: 36</td>
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COURSE DESCRIPTION:

This course is an introduction to residential blueprints. Topics include conventions, lines, symbols, measurements, and specifications used for residential construction.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: C - Credit - Degree Non Applicable

GRADING MODES

L - Standard Letter Grade

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. The student will compare, evaluate, and contrast different types of lines.

Measure: Quizzes, Written Exams

PLO: 2

ILO: 2, 3, 7

12/5/2016 1
2. The student will inspect and evaluate constructions drawings.

Measure: Reading Reports, Quizzes, Written Exams

PLO: 2

ILO: 2, 3, 7

GE-LO:

Year assessed or anticipated year of assessment: 2012-13

PROGRAM LEARNING OUTCOMES:

1. Demonstrate journey level skills, including those skills necessary to build all concrete infrastructures that comprise the California transportation system.

2. Locate on the blueprints and in the specifications, the information needed to construct various types of structures and assemble its various components.


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 homework assignments at the end of those chapters.

10.0 lec/2 lab

CONTENT

A. Drawing types
   1. Pictorial
   2. Isometric
   3. Orthographic
      a. Plans
      b. Elevations
      c. Sections
      d. Details

SLO: The student will compare, evaluate, and contrast drawing types.

B. Alphabet of lines
   1. Object line
   2. Hidden line
   3. Centerline
   4. Dimension
   5. Break line
   6. Leader
   7. Cutting plane

SLO: The student will compare, evaluate, and contrast different types of lines.

Mid-term exam

C. Symbols
D. Abbreviations
E. Scale
   1. Scale drawings
2. Architect’s scale
3. Engineer’s scale
SLO: The student will interpret and select architectural conventions, lines, symbols, abbreviations, and scales.

Assignments: Read the chapters covered in the lecture and do the homework exercises at the end of the chapters. Answer the study guide questions on the assigned subject.

Describe the different types of drawings, their use, and their advantages and disadvantages. Interpret architectural conventions, lines, symbols, and abbreviations.

9 lec/2 lab hours
F. Specifications
G. Building codes, zoning, and permits
SLO: The student will interpret building specifications and analyze building codes, zoning and permits.
H. Construction drawings
   1. Plans
      a. Plot plan
      b. Foundation plans
      c. Floor plans
      d. Roof plans
   2. Exterior elevations
   3. Room finish schedules
   4. Interior finish
   5. Door and window schedules
   6. General notes
SLO: The student will inspect and evaluate construction drawings.

Assignments: Read the chapters covered in the lecture and do the homework exercises at the end of the chapters. Answer the study guide questions on the assigned subject.

Describe the relationship between a series of orthographic projections. Interpret specifications. Describe the function of scale. Use an Architect’s scale.

9 lec/2 lab hours
I. Plumbing and electrical plans
SLO: The student will inspect and evaluate plumbing plans.
J. Material estimating
   1. Approximate estimate
   2. Detailed estimate
K. Metrics in construction
SLO: The student will contrast and create different methods of estimation and use of metrics.

Assignments: Read the chapters covered in the lecture and do the homework exercises at the end of the chapters. Answer the study guide questions on the assigned subject.

Describe how construction drawings are organized. Extract trade specific information. Use the blueprints to produce a material list. Apply metric measurements in construction.

2.0 Hours

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

12/5/2016
METHODS OF EVALUATION:
The types of writing assignments required:
Written homework
Reading reports
Lab reports
Essay exams
The problem-solving assignments required:
Homework problems
Field work
Lab reports
Quizzes
Exams
The types of skill demonstrations required:
Class performance
Field work
Performance exams
The types of objective examinations used in the course:
Multiple choice
True/false
Matching items
Completion
Other category:
None
The basis for assigning students grades in the course:
Writing assignments: 10% - 30%
Problem-solving demonstrations: 10% - 40%
Skill demonstrations: 10% - 50%
Objective examinations: 10% - 30%
Other methods of evaluation: 0% - 0%

REPRESENTATIVE TEXTBOOKS:
Required:
Reading level of text, Grade: 10
Verified by: publisher/dvt

ARTICULATION and CERTIFICATE INFORMATION
Associate Degree:
CSU GE:
IGETC:
CSU TRANSFER:
    Not Transferable
UC TRANSFER:
    Not Transferable

SUPPLEMENTAL DATA:
12/5/2016
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: CCC000500338
Sports/Physical Education Course: N
Taxonomy of Program: 095210