

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

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
2.5	1	Lecture:	30	30
		Lab:	6	6
		Other:	0	0
		Total:	36	36

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

GE-LO:

Year assessed or anticipated year of assessment: 2012-13

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.
3. Perform horizontal layout and vertical layout of wood framed wall components. Install interior and exterior trims and moldings. Construct various types of roofs and stairs.

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

12/5/2016

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 constructions 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

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:

Leonard Koel, CTCNC. Carpentry 6th edition, Residential Blueprint Reading. American Technical Publishers, CTCNC, 2013. Or other appropriate college level text.

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