



## ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 199270

UC TRANSFER:

Not Transferable

PREREQUISITES:

COREQUISITES:

STUDENT LEARNING OUTCOMES:

1. Create working drawings for project in compliance with environmental planning/architectural standards

Measure: Electronic Set of Working Drawings

PLO: 3

ILO: 1.4, 2.2, 3.3, 6.3

GE-LO: B-3

Year Assessed: 2011

2. Develop a design that describes and serves the needs of users

Measure: Class Design Projects

PLO: 2, 4, 1, 3

ILO: 1.1, 1.3 2.1, 2.4. 3.2,

4.1. 5.1, 6.4

GE-LO: A-2, B-8, C-3, E-3, F-1

Year Assessed: 2011

3. Design and prepare presentations of plans that can be used to apply for position or university to meet career objective

Measure: final CGD 30 project portfolio

PLO: 2, 3, 1, 4

ILO: 1.5, 2.6,

3.2, 4.2, 5.1, 6.1

GE-LO: A-1, A-6, B-7, C-1, E-1, F-1

Year Assessed: 2011

TOPICS AND SCOPE:

Curriculum Approval Date: 05/09/2011

11 Hours

CONTENT: Environmental Design and local planning departments.

SPO: Develop, support and present plans.

HOMEWORK: Obtain local building regulations, provide sketches and details of proposed project

14 Hours

CONTENT: Sustainable Practices, Intro to AutoCAD LT or other software for project

SPO: Use LEED specifications, selecting scale, architectural layers, symbols and dimensions.

HOMEWORK: Create sustainable specs for site plan drawn using architectural standards.

11 Hours

CONTENT: Floor Plans, Layers, and Environmental Considerations

SPO: Provide plans to optimize environmental conditions

HOMEWORK: Develop dimensioned and scaled environmental site plan for project.

1 Hours

CONTENT: Foundation and Plumbing Plans

SPO: Use blocks and details on foundation/plumbing plan

HOMEWORK: Create foundation/plumbing plan with footing details use blocks for fixtures.

14 Hours

CONTENT: Title 24 (energy conservation) Electrical Floor Plan, with sections and schedules.

SPO: Create plans that addresses Title 24

HOMEWORK: Produce Floor and Electrical Plan with wall and door/window schedules

10 Hours

CONTENT: Roof and framing plans.

SPO: Develop water resistant roofing & structural plans.

HOMEWORK: Determine roofing materials - use framing tables for developing roofing plan.

12 Hours

CONTENT: Building elevations and finish materials.

SPO: Create elevations and finish schedules.

HOMEWORK: Draft interior and exterior elevations. Provide finish schedules.

5 Hours

CONTENT: Standards for assembling plans into a coherent set

SPO: Create a portfolio section that demonstrates skills in environmental design

HOMEWORK: Create digital set of working drawings using industry standards

2 Hours

Final Exam

#### METHODS OF INSTRUCTION:

Lecture, discussion, field experiences, guest lectures, demonstrations to support independent and group design and research projects reinforced by instructor and peer critiques.

#### METHODS OF EVALUATION:

CATEGORY 1 - The types of writing assignments required:

Percent range of total grade: 10 % to 15 %

Written Homework

Reading Reports

Lab Reports

Other: Written Critiques and Drawing Notes

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 25 %

Homework Problems

Exams

Other: Design Problems

CATEGORY 3 -The types of skill demonstrations required:

Percent range of total grade: 10 % to 25 %

Class Performance/s

Performance Exams

CATEGORY 4 - The types of objective examinations used in the course:

Percent range of total grade: 10 % to 25 %

Multiple Choice

Matching Items

Completion

Other: Applied Skill Example using CAD or other competency

CATEGORY 5 - Any other methods of evaluation:

Percent range of total grade: 40 % to 60 %

Completed set of working drawings for portfolio

#### REPRESENTATIVE TEXTBOOKS:

Required:

Francis D.K Ching, Fundamentals of Graphics Communication, Wiley, 2008, or other appropriate college level text.

ISBN: 978-0470087817

Reading level of text, Grade: 14.2 Verified by: SMOG index at [http://www.online-utility.org/english/readability\\_test\\_and\\_improve.jsp](http://www.online-utility.org/english/readability_test_and_improve.jsp)

Other textbooks or materials to be purchased by the student: Text:

•Architecture: Form, Space & Order by Ching Supplie: USB, pencil & sketch paper

#### SUPPLEMENTAL DATA:

Basic Skills: N

Classification: I

Noncredit Category: Y

Cooperative Education:

Program Status: 1 Program Applicable

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: CGD

CSU Crosswalk Course Number: 30

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: B

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000136321

Sports/Physical Education Course: N

Taxonomy of Program: 095300