COLLEGE OF THE DESERT

Course Code ARCH-011

Course Outline of Record

1. Course Code: ARCH-011
2. a. Long Course Title: Architectural Blueprint Reading
   b. Short Course Title: ARCH BLUEPRNT READNG
3. a. Catalog Course Description:
   This course is a study of basic information for reading blueprints and construction drawings. It is designed for those who must assimilate information found in working drawings and specifications.
   b. Class Schedule Course Description:
   This course is a study of basic information for reading blueprints and construction drawings.
   c. Semester Cycle (*if applicable*): Fall
   d. Name of Approved Program(s):
   - ARCHITECTURAL TECHNOLOGY AS Degree for Employment Preparation
   - ARCHITECTURAL TECHNOLOGY Certificate of Achievement
4. Total Units: 3.00 Total Semester Hrs: 54.00
   Lecture Units: 3 Semester Lecture Hrs: 54.00
   Lab Units: 0 Semester Lab Hrs: 0
   Class Size Maximum: 28 Allow Audit: Yes
   Repeatability No Repeats Allowed
   Justification 0
5. Prerequisite or Corequisite Courses or Advisories:
   Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm1-A)
   Advisory: DRA 001
   Advisory: RDG 061
6. Textbooks, Required Reading or Software: *(List in APA or MLA format.)*
   a. Huth, Mark W. (2014). *Understanding Construction Drawing* (6th /e). Clifton Park, New York Delmar Cengage Learning. ISBN: 9781285061023
   College Level: Yes
   Flesch-Kincaid reading level: 12
7. Entrance Skills: *Before entering the course students must be able:*

Advisory skills:

a.
Use various reading strategies to prepare, read and comprehend expository text.

- RDG 061 - Use SQ3R &/or SOAR along with outlining, note-taking, mapping summarizing and other strategies to prepare, read, & comprehend expository text.

b.
Read a variety of texts fluently.

- RDG 061 - Read a variety of texts fluently.

c.
Use specific drafting tools

- DRA 001 - Apply basic mechanical and or architectural drafting skills and techniques.
- DRA 001 - Demonstrate the ability to letter and draft in a clear and concise manner.

d.

Apply basic mechanical and or architectural drafting skills and techniques.

- DRA 001 - Use specific drafting tools
- DRA 001 - Identify terms and concepts used such as Plan, Section and Detail.
- DRA 001 - Demonstrate the ability to letter and draft in a clear and concise manner.
- DRA 001 - Define the meaning of basic symbols used in construction documents.

e.

Write organized summaries & reactions that capture main idea and supporting details.

- RDG 061 - Write organized summaries & reactions that capture main idea and supporting details.

f.

Understand multiple word meanings, uses & synonyms.

- RDG 061 - Understand multiple word meanings, uses & synonyms

8. Course Content and Scope:

Lecture:

a. General
i. Abbreviation
ii. Symbols
iii. Definitions
b. Basic Drawing
i. Drafting techniques and methods
ii. Site analysis and space adjacency
iii. The process of conceptual design and graphic representation
iv. Preliminary drawings
v. Design development
c. Codes and Agencies
d. Construction Principles
i. Foundation systems
ii. Wall systems
iii. Roof systems
iv. Details
e. Construction documents
i. Site plan
ii. Floor plans
iii. Reflected Ceiling plan
iv. Roof plan
v. Elevations
vi. Sections
vii. Interior Elevations
viii. Finish, door and window schedules
ix. Structural drawings (foundation and framing plans)
x. Electrical plan
xi. Plumbing plan
xii. Heating and ventilating plan

Lab: *(if the "Lab Hours" is greater than zero this is required)*

9. Course Student Learning Outcomes:

1.

Recognize standards for the organization and coordination of a complete set of working drawings.

2.

Cross-reference plan symbols to the corresponding details in the set of working drawings.

3.
Define basic Architectural terminology, abbreviations, and acronyms commonly used in a set of working drawings.

10. Course Objectives: *Upon completion of this course, students will be able to:*
    a. Demonstrate the ability to recognize the appropriate use of standard conventions and symbols used in the design professions.
    b. Demonstrate the ability to draw appropriate solutions of assigned construction details.
    c. Demonstrate the ability to use the in-class library resources to evaluate the appropriate response to construction details.
    d. Demonstrate an understanding of a complete set of working drawings.
    e. Understand and apply the process and sequence which is used to systematically represent 3-D structures in a 2-D format.
    f. Demonstrate the ability to graphically represent construction details and sections by freehand sketching.

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*
    a. Discussion
    b. Lecture
    c. Participation
    d. Technology-based instruction

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*
    In Class Hours: 54.00
    Outside Class Hours: 108.00
    a. In-class Assignments
       a. Review workbook assignments.
       b. Discuss and review sample plans
    b. Out-of-class Assignments
       a. Workbook assignments: Through use of isometric sketching, the student is made aware of 3-D visualization that is necessary to properly interpret construction drawings. Terminology and language used in construction documents are stressed by using illustrations of construction types to cause the student to associate correct terminology. b. Comprehension of reading assignments c. Successful achievement in examinations as given in the course

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*
    - Written homework
    - True/false/multiple choice examinations
    - Mid-term and final evaluations
    - Student participation/contribution

14. Methods of Evaluating: Additional Assessment Information:

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*
    PO - Career and Technical Education
    Apply critical thinking skills to execute daily duties in their area of employment.
    Apply critical thinking skills to research, evaluate, analyze, and synthesize information.
    Exhibit effective written, oral communication and interpersonal skills.
    IO - Personal and Professional Development
    Value the feedback of others.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year

17. Special Materials and/or Equipment Required of Students:
Architectural Scale

18. Materials Fees: ☐ Required Material?

Material or Item	Cost Per Unit	Total Cost

19. Provide Reasons for the Substantial Modifications or New Course:

Change the advisory and entrance skills to Reading 061 and periodic review.

20. a. Cross-Listed Course *(Enter Course Code)*: *N/A*
b. Replacement Course *(Enter original Course Code)*: *N/A*

21. Grading Method *(choose one)*: Letter Grade Only

22. MIS Course Data Elements
a. Course Control Number [CB00]: CCC000259545
b. T.O.P. Code [CB03]: 20100.00 - Architecture and Architec
c. Credit Status [CB04]: D - Credit - Degree Applicable
d. Course Transfer Status [CB05]: B = Transfer CSU
e. Basic Skills Status [CB08]: 2N = Not basic skills course
f. Vocational Status [CB09]: Possibly Occupational
g. Course Classification [CB11]: Y - Credit Course
h. Special Class Status [CB13]: N - Not Special
i. Course CAN Code [CB14]: *N/A*
j. Course Prior to College Level [CB21]: Y = Not Applicable
k. Course Noncredit Category [CB22]: Y - Not Applicable
l. Funding Agency Category [CB23]: Y = Not Applicable
m. Program Status [CB24]: 1 = Program Applicable
Name of Approved Program *(if program-applicable)*: ARCHITECTURAL TECHNOLOGY,ARCHITECTURAL TECHNOLOGY
Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)

23. Enrollment - Estimate Enrollment
First Year: 20
Third Year: 28

24. Resources - Faculty - Discipline and Other Qualifications:
a. Sufficient Faculty Resources: Yes
b. If No, list number of FTE needed to offer this course: *N/A*

25. Additional Equipment and/or Supplies Needed and Source of Funding.
N/A

26. Additional Construction or Modification of Existing Classroom Space Needed. *(Explain:)*
N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES
Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Donbert M. Bitanga Origination Date 11/06/17