

Course Outline of Record

1. Course Code: ARCH-003A
2.
  - a. Long Course Title: Architectural Practice I
  - b. Short Course Title: ARCH PRACTICE I
3.
  - a. Catalog Course Description:
 

This is an introductory course in wood construction methods and processes. It focuses on the use of drafting tools, office equipment and references to assist in selection and drawing of architectural details, including: foundation, floors, walls and roofs.
  - b. Class Schedule Course Description:
 

This course is an introduction to the fundamentals of working drawings including the basic understanding of the floor plan, roof plan, exterior elevations, building sections and details.
  - c. Semester Cycle (if applicable): Spring
  - d. Name of Approved Program(s):
    - ARCHITECTURAL TECHNOLOGY AS Degree and Transfer Preparation
4. Total Units: 3.00      Total Semester Hrs: 90.00  
 Lecture Units: 2      Semester Lecture Hrs: 36.00  
 Lab Units: 1      Semester Lab Hrs: 54.00  
 Class Size Maximum: 26      Allow Audit: No  
 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)*

 Prerequisite: DRA 001
6. Textbooks, Required Reading or Software: (List in APA or MLA format.)
  - a. Wakita, O./Linde, R (2017). Professional Practice of Architectural Working Drawings (5th/e). Wiley & Sons, Inc.. ISBN: 978-1-118-880  
 College Level: Yes  
 Flesch-Kincaid reading level: 12.5
7. Entrance Skills: *Before entering the course students must be able:*
  - a. Use specific drafting tools
    - DRA 001 - Apply basic mechanical and or architectural drafting skills and techniques.
  - b. 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.
  - c. Identify terms and concepts used such as Plan, Section and Detail.
    - DRA 001 - Apply basic mechanical and or architectural drafting skills and techniques.
    - DRA 001 - Define the meaning of basic symbols used in construction documents.
  - d. Demonstrate the ability to letter and draft in a clear and concise manner.
    - DRA 001 - Use specific drafting tools
    - DRA 001 - Define the meaning of basic symbols used in construction documents.
  - e. Define the meaning of basic symbols used in construction documents.
    - DRA 001 - Apply basic mechanical and or architectural drafting skills and techniques.
    - DRA 001 - Identify terms and concepts used such as Plan, Section and Detail.
8. Course Content and Scope:

Lecture:

- a. Introduction to the principles and practices of architectural detailing.
- b. The essentials: Lettering and Line work (Vocabulary of architectural lines)
- c. Rules of detailing: sequence of construction documents
- d. Introduction to the California Building Code (CBC)
- e. Footing and foundation details: slab, stem wall, foundation walls, retaining walls
- f. Wall framing details: anchor bolts, hold-downs and other connections
- g. Roof and ceiling details and connections
- h. Door and window details
- i. Stair details
- j. Wood beam and girder connections
- k. Development of Design Workbook
- l. Basic sketching techniques to develop appropriate details

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

- a. Drawing of floor plan including all essential labeling, dimensioning and notations.
- b. Drawing of roof plan including basic calculations for amount of roof vents required.
- c. Drawing of exterior elevations including all projections, notations and labeling.
- d. Drawing of building sections and wall detail(s) including all projections, notations and labeling.
- e. Drawing of electrical plan including application of electrical symbols, schematic wiring, electrical load calculations, and basic electrical codes.

9. Course Student Learning Outcomes:

1.

Apply standard conventions used in Architectural working drawings. (Cognitive)

2.

Recognize the basic features of wood frame construction in graphic form. (Affective)

3.

Develop a basic set of plans, elevations, building sections, and details commonly included in Architectural working drawings. (Psychomotor)

10. Course Objectives: *Upon completion of this course, students will be able to:*

- a. Demonstrate advanced proficiency in architectural drafting, and lettering
- b. Demonstrate the ability to recognize the appropriate use of standard conventions and symbols used in the design professions.
- c. Explain the basic features of wood frame construction.
- d. Demonstrate the ability to draw appropriate solutions of assigned construction details
- e. Demonstrate the ability to use the in-class library resources to evaluate the appropriate response to construction details
- f. Develop a Design Notebook as an organizational system for all completed drawings, notes, handouts and other assignments
- g. Demonstrate the ability to lay-out and draw architectural details, and sections at an acceptable level of proficiency
- h. Develop and demonstrate basic sketching skills used to represent the communication link in drawing architectural details

11. Methods of Instruction: (*Integration: Elements should validate parallel course outline elements*)

- a. Demonstration, Repetition/Practice
- b. Discussion
- c. Lecture

Other Methods:

- a. Lecture and overhead projections
- b. Individual student desk critiques
- c. Weekly pin-ups of student's assignments and critique
- d. Demonstrations of acceptable drawing practices by instructor
- e. Classroom discussions and problem solving strategies

ARCH 003A-Architectural Practice I

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*

In Class Hours: 90.00

Outside Class Hours: 72.00

a. In-class Assignments

a. Classroom participation during lectures is expected and required b. View overheads and develop notes for use in assignments c. Semester-long work on various simple working drawings

b. Out-of-class Assignments

a. Respond to desk critiques by demonstrating improvement in assignments b. Demonstrate improved skills based on pin-ups and critiques c. Semester-long work on various simple working drawings

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

- Laboratory projects
- Presentations/student demonstration observations
- Student participation/contribution

14. Methods of Evaluating: Additional Assessment Information:

- a. Written assignments b. Lecture and studio participation c. Weekly drawing assignments d. Research and library skills (critical thinking skills assignments) e. Weekly quizzes f. Mid-term project g. Final project

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*

PO - Career and Technical Education

Fulfill the requirements for an entry- level position in their field.

Apply critical thinking skills to execute daily duties in their area of employment.

Apply critical thinking skills to research, evaluate, analyze, and synthesize information.

Transfer to a higher level learning institution

IO - Aesthetics

Apply and relate theories of aesthetics to everyday life.

Apply imagination to artistic expression.

Value appearance in terms of how pleasing it is in movement, form, and function.

IO - Critical Thinking and Communication

Apply principles of logic to problem solve and reason with a fair and open mind.

16. Comparable Transfer Course

<b>University System</b>	<b>Campus</b>	<b>Course Number</b>	<b>Course Title</b>	<b>Catalog Year</b>
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17. Special Materials and/or Equipment Required of Students:

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18. Materials Fees:  Required Material?

<b>Material or Item</b>	<b>Cost Per Unit</b>	<b>Total Cost</b>
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19. Provide Reasons for the Substantial Modifications or New Course:

Periodic Course Update

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

# ARCH 003A-Architectural Practice I

- a. Course Control Number [CB00]: CCC000271661
- 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]: Clearly 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

Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)

## 23. Enrollment - Estimate Enrollment

First Year: 26

Third Year: 26

## 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 04/22/18