Course Prefix and Number: ARC 122  
Credits: 3

Course Title: Architectural Drafting II

Course Description: Introduces techniques of architectural drafting, including lettering, dimensioning, and symbols. Requires production of plans, sections, and elevations of a simple building. Studies use of common reference material and the organization of architectural working drawings. Requires development of a limited set of working drawings, including a site plan, related details and pictorial drawings. Part II of II. Credit will not be awarded for both ARC 122 and ARC 124. Prerequisites: ARC121 and DRF 231 or instructor's approval. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose: Research and design a residential structure via computer-assisted-design means. Said design should be compliant with the various code requirements that govern residential construction in Virginia and also exhibit a fundamental understanding of construction principles and practices associated with typical residential construction. Students will produce a "complete" set of drawings (exclusive of mechanical/electrical plans) suitable for submission, capable of passing the review of a building official. Course required for the Contemporary Technology for Design and Building Construction Management tracks of the Architectural and Engineering Technology AAS degree.

Course Prerequisites and Co-requisites:
Prerequisites: ARC121 and DRF 231 or instructor’s approval

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Develop a design for a residential detached dwelling including necessary structural components;
b. Generate a complete set of working drawings that would support construction of the design and approval by a building official; and

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Upon completing the course, the student will be able to
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c. Conduct a code analysis of the hypothetical project and insure all legal aspects of the project have been addressed and satisfied.

Major Topics to Be Included and/or Drawings Required:

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a. Concept/research narrative with Bubble Diagram
b. Floor plan(s) for each floor
c. Foundation/basement plan
d. Elevations
e. Transverse Section
f. Site plan
g. Details to support the design/reference to material specifications
h. Door, window and finish schedules

Date Created/Updated (Month, Day, and Year): January 19, 2019