

TIDEWATER COMMUNITY COLLEGE

Official Course Outline

Course Prefix/Number/Title: ARC 121 Architectural Drafting I

Credit Hours: 3 **Lecture Hours:** 2 **Lab Hours:** 3 **Total Contact Hours:** 5

Pre-requisites: None **Co-requisites:** None

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 materials and the organization of architectural working drawings.

Course Objectives: The course covers principles of residential design and construction, common residential construction materials, components, and systems as related to wood frame structures. Concepts, practices, and drafting techniques needed for producing architectural working drawings are covered as well.

Upon successful completion of this course, the student will be able to:

- Define and describe architectural terms and symbols, and their use in residential construction documentation.
- Produce a set of residential construction drawings to include site plan, floor plans, elevations, sections, wall sections, schedules, details, foundation and framing plans.
- Apply problem-solving skills related to architectural design and construction.
- Find and utilize various reference materials, building codes and other available resources.

Course Content:

- Residential Architecture – Past and Present
- Planning Individual Rooms
- Getting Started on the Plan
- Footing, Foundation and Basement Construction
- Methods of House Construction
- The Working Drawings and Specifications
- Designing the Exterior
- Wall Sections and Details
- Site Plan
- Door & Window Schedules
- Electrical Features
- Plumbing

Textbook: Osamu A. Wakita, Richard M. Linde. The Professional Practice of Architectural Working Drawings. Wiley; 3rd ed., 2002. ISBN-13: 978-0471395404