North Carolina CTE

IC62 Drafting II - Architectural: Grades 9-12

Understand Architectural Styles and Industry Terms. 1.00	**1** Understand various architectural styles. 1.01
	2 Understand terms related to selected styles of residential architecture and create a collection of illustrations or a presentation that demonstrates the various elements of residential styles. 1.02
	3 Understand architectural industry terms. 1.03
Apply procedures to create Floor Plans. 2.00	**1** Apply terms and definitions and accepted principles related to single-level residential space planning. 2.01
	2 Apply residential door and window types, symbols for doors, windows and room identification. 2.02
	3 Apply terms and definitions related to single-level residential space planning. 2.03
	4 Apply accepted principles of single-view residential space planning. 2.04
	5 Apply door and window types. 2.05
	6 Apply floor plan symbols. 2.06
	7 Apply procedures to draw a single-level residential floor plan using 3D CAD, BIM software, for example: Revit Architecture. 2.07
	8 Apply procedures to annotate a single-level residential floor plan using 3D CAD, BIM software, for example: Revit Architecture. 2.08
Apply procedures to create Foundation plans and Levels of a Building. 3.00	**1** Apply terminology related to common foundation plans. 3.01
	2 Apply footing and foundation wall construction types. 3.02
	3 Apply the purpose of a foundation plan and describe its features. 3.03
	4 Apply concepts of wood sill and floor construction. 3.04
	5 Apply procedures to draw a foundation plan using 3D CAD, BIM software. 3.05

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Apply procedures to create Simple Roof and Floor System Designs. 4.00	1 **Understand terms and definitions related to roof plans.** 4.01
	2 **Understand concepts of roof construction including roof types: gable, hip, roof slope.** 4.02
	3 **Understand concepts of floor systems.** 4.03
	4 **Apply procedures to draw roof and floor systems using 3D CAD, BIM software.** 4.04
Apply procedures for drawing View types. 5.00	1 **Apply terms and definitions related to construction drawing view types: Plan views, Section views, Elevation views, 3D Views, and Detail views.** 5.01
	2 **Apply terms and definitions related to wall sections and details.** 5.02
	3 **Apply concepts of wood frame wall construction.** 5.03
	4 **Apply the purpose and features of a wall section, noting insulation and vapor barrier materials and construction.** 5.04
	5 **Apply terms, purpose, features and definitions related to exterior elevations and building sections.** 5.05
	6 **Apply procedures to draw typical wall sections using 3D CAD, BIM software.** 5.06
	7 **Apply procedures to draw exterior elevations and building sections using 3D CAD, BIM software.** 5.07
Apply Procedures to Complete a Residential Construction Documents (CD) Set. 6.00	1 **Apply key components/sheets needed, sheet numbering, naming conventions for a CD set.** 6.01
	2 **Apply schedules and labels used in CD Set.** 6.02
	3 **Apply CAD printing and set up.** 6.03
	4 **Apply procedures to complete a residential Construction Documents Set using 3D CAD, BIM software.** 6.04