North Carolina CTE

Drafting II - Architectural (2015): Grades 9, 10, 11, 12

Adopted 2015

Understand Architectural Styles and Industry Terms 1.00	01.	**Understand various architectural styles. Examples include: French Colonial, Prairie, Cape Cod, Craftsman, Dutch Colonial, Contemporary/Modern, Log Cabin, Southern Colonial, Federal, Victorian, Spanish, and Greek Revival ** 1.01
	02.	**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
	03.	**Understand architectural industry terms, such as: - BIM - Sustainable Design - LEED ** 1.03
Apply procedures to create Floor Plans 2.00	01.	**Apply terms and definitions and accepted principles related to single-level residential space planning.** 2.01
	02.	**Apply residential door and window types, symbols for doors, windows and room identification.** 2.02
	03.	**Apply terms and definitions related to single-level residential space planning.** 2.03
	04.	**Apply accepted principles of single-view residential space planning.** 2.04
	05.	**Apply door and window types.** 2.05
	06.	**Apply floor plan symbols.** 2.06
	07.	**Apply procedures to draw a single-level residential floor plan using 3D CAD, BIM software, for example: Revit Architecture.** 2.07
	08.	**Apply procedures to annotate a single-level residential floor plan using 3D CAD, BIM software, for example: Revit Architecture.** 2.08
Apply procedures to cre an Bu	01.	**Apply terminology related to common foundation plans.** 3.01
		Apply footing and foundation wall construction types. 3.02

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	03. Apply the purpose of a foundation plan and describe its features. 3.03
	04. Apply concepts of wood sill and floor construction. 3.04
	05. Apply procedures to draw a foundation plan using 3D CAD, BIM software. 3.05
Apply procedures to create Simple Roof and Floor System Designs 4.00	01. Understand terms and definitions related to roof plans. 4.01
	02. Understand concepts of roof construction including roof types: gable, hip, roof slope. 4.02
	03. Understand concepts of floor systems 4.03
	04. Apply procedures to draw roof and floor systems using 3D CAD, BIM software. 4.04
Apply procedures for drawing View types 5.00	01. Apply terms and definitions related to construction drawing view types: Plan views, Section views, Elevation views, 3D Views, and Detail views 5.01
	02. Apply terms and definitions related to wall sections and details. 5.02
	03. Apply concepts of wood frame wall construction. 5.03
	04. Apply the purpose and features of a wall section, noting insulation and vapor barrier materials and construction. 5.04
	05. Apply terms, purpose, features and definitions related to exterior elevations and building sections. 5.05
	06. Apply procedures to draw typical wall sections using 3D CAD, BIM software. 5.06
	07. 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	01. Apply key components/sheets needed, sheet numbering, naming conventions for a CD set. 6.01
	02. Apply schedules and labels used in CD Set. 6.02
	03. Apply CAD printing and set up. 6.03
	04. Apply procedures to complete a residential Construction Documents Set using 3D CAD, BIM software. 6.04