**Career and Technical Education**

**Drafting II-Architecture Honors**

**Crosswalk**

| Essential Standards # | Expectations of Standard Course | Expectations of Honors Course | Pacing Guide |
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| **A** | **LEADERSHIP DEVELOPMENT** |  |  |
| **D201.00** | **Demonstrate job seeking and interview skills.** |  |  |
| *D201.01* | *Identify jobs and job ethics associated with architectural drafting.* | ***Identify jobs and job seeking skills associated with the architectural field. Create a resume, cover letter and thank you letter for a job associated with architecture design.*** | ***3 Days*** |
| *D201.02* | *Participate in a job interview.* | ***Demonstrate appropriate job interview skills gestures and dress code.*** | ***1 Day*** |
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| **B.** | **CAD** |  |  |
| **D202.00** | **Utilize Computer Aided Drafting (CAD) skills to produce drawings.** |  |  |
| D202.01 | *Identify common terms and definitions relating to Computer Aided Drafting.* | ***Identify common terms and definitions relating to CAD. Explain the advantages and disadvantages of the use of CAD.*** | ***1 Day*** |
| D202.02 | *Construct architectural drawings using CAD.* | **Construct floor plans and elevations using 2-D and 3-D CAD commands.** | **3 Days** |
| D202.03 | *Critique CAD drawings.* | **Present and critique CAD floor plans.** | **1 Day** |
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| **C.** | **FLOOR PLANS** |  |  |
| **D203.00** | **Draw floor plans** |  |  |
| D203.01 | *Identify terms and definitions related to single-level residential space planning.* | ***Identify terms and definitions related to single level residential planning and explain the role and purpose of each term or concept.*** | *2 Days* |
| D203.02 | *Analyze accepted principles of single-view residential space planning.* | ***Research Zoning laws, Building codes and accepted principles for residential space planning.***  | *3 Days* |
| D203.03 | *Determine door and window types.* | **Determine and apply appropriate doors and windows to a floor plan and identify the function of each.** | **2 Days** |
| D203.04 | *Identify floor plan symbols.* | ***Construct a floor plan and apply correct floor plan symbols to represent, cabinets, countertops, appliances and plumbing fixtures.*** | *4 Days* |
| D203.05 | *Identify terms and symbols used to indicate electrical fixtures.* | ***Identify and explain electrical symbols on an electrical plan.*** | *1 Day* |
| D203.06 | *Demonstrate the rules and standards for electrical fixture placement.* | ***Create and explain an electrical plan for a one and or two story residential or commercial building.*** | *2 Days* |
| D203.07 | *Demonstrate the steps in drawing, dimensioning, and annotating a single-level floor plan.* | ***Apply steps in drawing a floor to design, draw and dimension a single level and or multi-level floor plan.*** | *4 days* |
| D203.08 | *Draw a single-level residential floor plan.* | ***Design, draw, model, present and critique a single-level or multi-level residential floor plan.*** | *10 Days* |
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| **D.** | **FOUNDATION PLANS** |  |  |
| **D204.00** | **Draw foundation plans.** |  |  |
| D204.01 | *Identify terminology related to foundation plans.* | ***Identify and explain the purpose and appropriate applications of various foundation plans.*** | *2 Days* |
| D204.02 | *Identify common foundation systems.* | ***Identify, draw, label and model common foundation systems.*** | *2 Days* |
| D204.03 | *Explain footing and foundation wall construction.* | **Demonstrate and explain calculations to determine the size of a footing and foundation wall system. Determine and demonstrate appropriate structural methods and construction.** | **1 Day** |
| D204.04 | *Explain the purpose of a foundation plan and describe its features* | **Explain the purpose of a foundation plan and the function of each component.** | **1 Day** |
| D204.05 | *Draw a foundation plan.* | **Design and draw a foundation plan and model its construction.** | **3 Days** |
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| **E.** | **BASIC ROOF DESIGN** |  |  |
| **D205.00** | **Draw roof plans.** |  |  |
| D205.01 | *Identify terms and definitions related to roof plans.* | **Identify terms related to roof plans and explain the function of each component. Draw and model various roof types.** | **2 Days** |
| D205.02 | *Apply concepts of roof construction.* | ***Draw and label the various components of roof construction. Calculate and demonstrate the roof slope.*** | ***1 Day*** |
| D205.03 | *Draw roof plans.* | ***Design and draw and dimension a roof plan, model its components .*** | ***3 Days*** |
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| **F.** | **SECTIONS AND DETAILS** |  |  |
| **D206.00** | **Draw wall sections and details.** |  |  |
| D206.01 | *Identify terms and definitions related to wall sections and details.* | **Research terms and definitions related to wall sections and details and explain the function of each component.** | **3 Days** |
| D206.02 | *Apply concepts of wood sill and floor construction.* | **Identify the structural components of wood sill and floor construction, explain the purpose of each and model a wood sill floor construction.** | **1 Day** |
| D206.03 | *Apply concepts of wood frame wall construction.* | **Identify the various components of a wood frame wall, explain the purpose of each and model the construction of a wood framing wall system.** | **1 Day** |
| D206.04 | *Analyze insulation and vapor barrier materials and construction* | **Analyze, identify and explain various vapor barrier materials and construction.** | **1 Day** |
| D206.05 | *Determine the purpose and features of a wall section.* | **Explain the purpose of a wall section and determine the features to e shown and explain the construction details shown on a wall section.** | **1 Day** |
| D206.06 | *Draw typical wall sections.* | **Draw, label, dimension and model a typical wall section.** | **5 Days** |
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| ***G.*** | ***EXTERIOR ELEVATIONS*** |  |  |
| **D207.00** | **Draw exterior elevations.** |  |  |
| D207.01 | *Identify terms and definitions related to exterior elevations.* | **Research and compile relevant examples and identify terms and definitions related to exterior elevations.**  | **2 Days** |
| D207.02 | *Demonstrate the purpose and features of an exterior elevation.* | **Describe and demonstrate techniques to create exterior elevations. Explain its features and purpose of exterior elevations.** | **1 Day** |
| D207.03 | *Draw exterior elevations.* | **Design, draw, label, model, present and critique exterior elevations** | **4 Days** |
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