



Nebraska Career Pathways Project

SKILLED AND TECHNICAL SCIENCES

**Architecture and Construction Cluster Technical Knowledge and Skills  
High School/College Architectural Drafting Student Checklist**

				STUDENT:	DATE:
<b>2</b>	<b>1</b>	<b>N</b>	<b>CODE</b>	<b>N = Not Exposed to Performance Element, 1 = Progressing with Performance Element, 2 = Mastery of Performance Element</b>	
<b>2</b>	<b>1</b>	<b>N</b>	<b>CODE</b>	<b>Demonstrate understanding of terms and principles used in the architectural profession (AD.TP)</b>	
			<b>AD.TP.1</b>	<i>Define and use terms commonly used in the architectural profession</i>	
<b>2</b>	<b>1</b>	<b>N</b>	<b>CODE</b>	<b>Explain the application of geometric objects to building materials (AD.GO)</b>	
			<b>AD.GO.1</b>	<i>Define the characteristics of an equilateral triangle and its application to architecture</i>	
			<b>AD.GO.2</b>	<i>Define the characteristics of an isosceles triangle and its application to architecture</i>	
			<b>AD.GO.3</b>	<i>Define the characteristics of a square and its application to architecture</i>	
			<b>AD.GO.4</b>	<i>Define the characteristics of a parallelogram and its application to architecture</i>	
			<b>AD.GO.5</b>	<i>Define the characteristics of an equilateral triangle and its application to architecture</i>	
			<b>AD.GO.6</b>	<i>Define the characteristics of a hexagon and its application to architecture</i>	
			<b>AD.GO.7</b>	<i>Define the characteristics of an octagon and its application to architecture</i>	
			<b>AD.GO.8</b>	<i>Define the characteristics of a circle and its application to architecture</i>	
<b>2</b>	<b>1</b>	<b>N</b>	<b>CODE</b>	<b>Interpret and apply conventional General Drafting Standards to architectural drafting situations (AD.DS)</b>	
			<b>AD.DS.1</b>	<i>Define function of each line in the Alphabet of Lines</i>	
			<b>AD.DS.2</b>	<i>Explain the graphical characteristics of visible/object lines</i>	
			<b>AD.DS.3</b>	<i>Explain the graphical characteristics of hidden lines</i>	
			<b>AD.DS.4</b>	<i>Explain the graphical characteristics of section lines</i>	
			<b>AD.DS.5</b>	<i>Explain orthographic elevation projection</i>	
			<b>AD.DS.6</b>	<i>Explain the terms and definitions used in detail drawings, working drawings and drafting</i>	

			<b>AD.DS.7</b>	<i>Define and describe the components that comprise architectural drawings</i>
			<b>AD.DS.8</b>	<i>Define and describe the components that comprise architectural construction (working) drawings</i>
<b>2</b>	<b>1</b>	<b>N</b>	<b>CODE</b>	<b>Develop a set of working drawings using competencies identified for drafting certification by the American Design Drafting Association (AD.WD)</b>
			<b>AD.WD.1</b>	<i>Produce multi-view drawings with lines, curves, surfaces, holes, fillets, rounds, chamfers, run outs and ellipses</i>
			<b>AD.WD.2</b>	<i>Use standard drafting techniques to create section views to improve the visualization of new designs</i>
			<b>AD.WD.3</b>	<i>Clarify multi-view drawings and facilitate the dimensioning of drawings</i>
			<b>AD.WD.4</b>	<i>Summarize and apply the principles and procedures for adding size information to a drawing according to standard dimensioning practices</i>
			<b>AD.WD.5</b>	<i>Draw and label site plans, floor plans, foundation plans, plumbing plans, mechanical plans, electrical plans and landscaping plans with elevations, sections, details, schedules and necessary multi-views</i>