

## Expectations and Outcomes

Grade Level/Course: 9-12

Content Area: Tech Ed

Unit Title	Guarantees
Unit 1 - Measuring, Fractions, and Conversions	<ul style="list-style-type: none"> <li>• Students will be able to convert between feet &amp; inches and add and subtract fractions.</li> </ul>
Unit 2 - Views of Drafting	<ul style="list-style-type: none"> <li>• Student will understand orthographic and isometric views</li> </ul>
Unit 3 - Hand Drafting	<ul style="list-style-type: none"> <li>• Student will be able to draw a basic blueprint in ¼" architectural scale.</li> <li>• Students will learn the basic types of buildings and construction materials</li> </ul>
Unit 4 - Sketch up - Dream house Sketch	<ul style="list-style-type: none"> <li>• Students will explore and create a basic house exterior using Sketch up and import objects from the sketch up warehouse.</li> </ul>
Unit 5 - Revit Introduction	<ul style="list-style-type: none"> <li>• Students will explore the features of Revit including foundations, walls, windows, components and roofs.</li> </ul>
Unit 6 - Revit Cabin Design	<ul style="list-style-type: none"> <li>• Students will build on their knowledge of Revit drafting their earlier hand drafted cabin.</li> <li>• Students will transfer this file into Sketch up and create a walk-through of the Cabin.</li> </ul>
Unit 7 - Dream House	<ul style="list-style-type: none"> <li>• Students will design their dream home ensuring their design fits to building codes and design requirements.</li> </ul>
Unit 8 - Sustainable Home	<ul style="list-style-type: none"> <li>• Students will incorporate sustainable features such as passive solar, pv solar, low water landscaping, geothermal heating systems, wall composition to a home.</li> </ul>