

Expectations and Outcomes

Grade Level/Course: 10-12

Content Area: Tech Ed

Unit Title	Guarantees
Module 1 Small Homes	<ul style="list-style-type: none"> • Students will learn basics of building code and design small homes that comply to code. • Sustainable design will be introduced • Building Information Modeling systems introduced. • Water explored as a finite commodity • Site Selection will be explored for strengths and weaknesses.
Module 2 Sustainable Home	<ul style="list-style-type: none"> • A sustainable home will be designed for a specific location. • Students will explore and select Energy Star Appliances, window U-values, rain catchment systems, living roofs, renewable power sources, and low impact building materials. • Students will estimate a cost of material and a cost of construction of this home in the location of their choosing. • Students will work with the mechanical and electrical system design in Revit
Module 3 - Sustainable School Design	<ul style="list-style-type: none"> • Students will explore facets of design for schools that could save long term operational costs like heating and water usage. • Student will explore how spaces affect students and their behaviors.