



# Course Curriculum Outline

## Technology and Information Tech

Course Name: Introduction to CAD (1 Semester)

Grade Level(s): 9-12

Course Description:

### Wisconsin State Standards for Technology and Engineering

Learning Priority	Major Topics
<b>Develop original solutions, products and services to meet a given need</b>	<ul style="list-style-type: none"><li>• Develop original ways to solve a problem</li><li>• Design a product or service that could fulfill a human need or desire</li></ul>
<b>Develop effective resolutions for a given problem, decision or opportunity using available information.</b>	<ul style="list-style-type: none"><li>• Determine the best resolution for a problem, decision or opportunity based on given criteria</li></ul>
<b>Design solutions based on gathered information</b>	<ul style="list-style-type: none"><li>• Refine a design by using prototypes and modeling to ensure quality, efficiency and productivity of the final product</li><li>• Develop and produce a product or system using a design process</li></ul>
<b>Evaluate completed solutions and provide</b>	<ul style="list-style-type: none"><li>• Evaluate the design solution using conceptual, physical and mathematical models at various intervals of the design process in order to check for proper design and not areas where improvements are needed.</li></ul>
<b>Describe and apply engineering design</b>	<ul style="list-style-type: none"><li>• A prototype is a working model used to test a design concept by making actual observations and necessary adjustments.</li></ul>
<b>Demonstrate the variety of building phases, systems, and techniques used in architecture and construction</b>	<ul style="list-style-type: none"><li>• Develop plans by using processes common to the industry</li></ul>

Textbook/Other Resources: Exploring Drafting