

## DET2200 - Advanced Modeling with SolidWorks

Credits:	3 (2/1/0)
Description:	This course covers advanced part modeling, assembly modeling, sheet metal, weldments and presentation files in the latest version of the SolidWorks software package.
Prerequisites:	<ul style="list-style-type: none"><li>• CADD1400</li><li>• DET1106</li></ul>
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"><li>1. Analyze top-down, bottom-up and middle-out assembly configurations.</li><li>2. Utilize advanced part modeling tools for feature generation.</li><li>3. Demonstrate design intent concepts and techniques.</li><li>4. Utilize and appropriately apply assembly constraints to control degrees of freedom in assemblies.</li><li>5. Manipulate sheet metal fabrication standards and default settings to reflect industry standards.</li><li>6. Utilize sheet metal tools to create folded sheet metal parts and flat patterns.</li><li>7. Manipulate and utilize the assembly environment to create exploded assembly models and animations.</li><li>8. Identify and properly apply balloon callouts on assembly drawings.</li><li>9. Manipulate settings for a bill of material in assembly drawings and utilize them to generate accurate parts lists.</li></ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.