

## 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:	• CADD1400 • DET1106
Corequisites:	
Pre/Corequisites <sup>*</sup> :	
Competencies:	<ol> <li>Analyze top-down, bottom-up and middle-out assembly configurations.</li> <li>Utilize advanced part modeling tools for feature generation.</li> <li>Demonstrate design intent concepts and techniques.</li> <li>Utilize and appropriately apply assembly constraints to control degrees of freedom in assemblies.</li> <li>Manipulate sheet metal fabrication standards and default settings to reflect industry standards.</li> <li>Utilize sheet metal tools to create folded sheet metal parts and flat patterns.</li> <li>Manipulate and utilize the assembly environment to create exploded assembly models and animations.</li> <li>Identify and properly apply balloon callouts on assembly drawings.</li> <li>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.