

## DET2210 - Advanced Modeling with Inventor

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| Credits:           | 3 (2/1/0)  |
| Description:       | This course covers advanced part modeling, assembly modeling, sheet metal, frame generator and presentation files in the latest version of the Inventor software package.  |
| Prerequisites:     | <ul style="list-style-type: none"> <li>• CADD1410</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 presentation 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.