

## CADD1114 - Introduction to Solids and Parametric Modeling

Credits:	4 (2/2/0)
Description:	This course is an introduction to solid modeling and model derived drawing layouts using the latest versions of the AutoCAD, Inventor and SolidWorks drawing software.
Prerequisites:	<ul style="list-style-type: none"> <li>• CADD1102</li> <li>• MCDD1102</li> </ul>
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"> <li>1. Analyze static solid and parametric solid models.</li> <li>2. Analyze design intent for solid models.</li> <li>3. Apply XY drawing plane and dynamic UCS rules.</li> <li>4. Utilize Boolean commands and solids editing tools.</li> <li>5. Generate drawing layouts from solid models.</li> <li>6. Demonstrate file management for dwg, ipt, iam, idw, ipn, and sldprt files.</li> <li>7. Analyze sketch creation modes for parametric and non-parametric softwares.</li> <li>8. Analyze part creation modes.</li> <li>9. Apply feature creation and application techniques.</li> <li>10. Utilize browser panel functions.</li> <li>11. Utilize multiple design environments for part and assembly modeling.</li> <li>12. Utilize material applications for mass properties generation.</li> <li>13. Apply file associativity and bi-directional associativity to model and assembly geometry.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.