

## 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.