# CADD1114 - Introduction to Solids and Parametric Modeling

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| 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: | • CADD1102<br>• MCDD1102 |
| Corequisites: | |
| Pre/Corequisites*: | |
| Competencies: | 1. Analyze static solid and parametric solid models.<br>2. Analyze design intent for solid models.<br>3. Apply XY drawing plane and dynamic UCS rules.<br>4. Utilize Boolean commands and solids editing tools.<br>5. Generate drawing layouts from solid models.<br>6. Demonstrate file management for dwg, ipt, iam, idw, ipn, and sldprt files.<br>7. Analyze sketch creation modes for parametric and non-parametric softwares.<br>8. Analyze part creation modes.<br>9. Apply feature creation and application techniques.<br>10. Utilize browser panel functions.<br>11. Utilize multiple design environments for part and assembly modeling.<br>12. Utilize material applications for mass properties generation.<br>13. Apply file associativity and bi-directional associativity to model and assembly geometry. |
| MnTC goal areas: | None |

*Can be taking as a Prerequisite or Corequisite.*