

## CADD2214 - Advanced Solids and Parametric Modeling

Credits:	4 (2/2/0)
Description:	This course covers advanced part modeling, assembly modeling, sheet metal and presentation files in the latest versions of the Inventor and SolidWorks drawing software.
Prerequisites:	• CADD1114
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. Analyze middle out assembly configurations.</li> <li>3. Utilize advanced part modeling tools.</li> <li>4. Demonstrate design automation techniques.</li> <li>5. Utilize assembly constraints.</li> <li>6. Manipulate sheet metal fabrication environment.</li> <li>7. Utilize sheet metal tools.</li> <li>8. Demonstrate application techniques for hole tables.</li> <li>9. Demonstrate application techniques for a bill of materials.</li> <li>10. Utilize presentation environment for exploded assembly models.</li> <li>11. Apply motion rules to exploded assembly models.</li> <li>12. Apply iMate rules and constraints to assembly geometry.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.