DET1105 - Mechanical Drawing II

Credits:	4 (2/2/0)
Description:	In this course, students utilize design software and descriptive geometry to create, modify, detail and print orthographic, section, detail and auxiliary views. Industry standards will be incorporated into the design process, focusing on accurate view representation, dimensioning and annotation practices.
Prerequisites:	• DET1104
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Utilize geometric construction tools and techniques to produce multiview drawings. 2. Format drawing settings to accurately represent part drawing space, line types, colors, scale and units. 3. Utilize ribbons, commandline interface, command shortcuts and context-sensitive menus to produce multiview drawings. 4. Apply appropriate modifying tools and techniques to create accurate drawing geometry. 5. Analyze, manipulate and apply accurate text styles, dimension styles and leader styles, using industry standard dimensioning techniques and dimension terminology. 6. Calculate dimension and line type scale factors for appropriate annotation and line type representation. 7. Analyze and apply industry standard hatching techniques to appropriate drawing geometry. 8. Create drawing layouts by calculating view and sheet scale factors for plotting drawing geometry. 9. Create functional block geometry and attribute definitions related to drawing geometry and required tables or annotations. 10. Utilize tool palettes to share drawing geometry, blocks and annotation controls between drawings and sheet sets. 11. Generate attribute-driven tables and title blocks for inch and metric drawings.
MnTC goal areas:	None

**Can be taking as a Prerequisite or Corequisite.*