

The following learning targets represent the major concepts studied and assessed in this course. Updated 2022 - 2023

Semester 1

Unit 1: Engineering Careers and Lettering:

- Careers in Engineering
- Conducting Research and Compare Data
- Engineering Lettering

Unit 2: Hand Sketching:

- Hand Sketching
- Scaling Drawings
- Isometric Drawing

Unit 3: Multiview Drawings:

- Multiview Drawings

Unit 4: AutoCAD Drawing:

- Autodesk Inventor

Semester 2

Unit 5: Multiview Projects in AutoCAD and Inventor:

- Semester AutoCAD/ Inventor Project

Unit 6: Dimensioned Sheet Drawings:

- Basic Dimensioning
- Inventor Title Blocks
- Sheet Drawings

Unit 7-8: Auxiliary and Section Views:

- Creating Auxiliary Views
- Creating Section Views
- Printing Auxiliary and Section Views in Inventor

Unit 9: 3D Printing:

- Creating Solutions to Problems
- 3D Printing using Inventor

Unit 10: Working Drawings:

- Explosion Views
- Mechanical Assemblies
- Complete Working Drawings
- Design Challenges