



HOUSATONIC
COMMUNITY COLLEGE

*Advanced Manufacturing
Technology Center*

Course Title: Blueprint Reading I

Course number: MFG 124

Credits: 2

Course description: An initial course in Blueprint Reading, this is the study of orthographic projection. Topics include, lines and their uses, auxiliary views, sectional views, basic and special dimensioning, dimensioning practices for holes, chamfers, angle, tapers, keyways diameters, radii, and geometric tolerancing.

Course Objectives: At the conclusion of this course students will be able to...

1. Understand lines and their uses in orthographic projections
2. Understand auxiliary and sectional views
3. Be able read and use dimensioning on drawings
4. Understand geometric dimensioning and tolerancing and surface texture requirements

Course Content: Students will learn to...

- Distinguish the family of lines
- Use Principles of Orthographic Projection
- Work with auxiliary view
- Work with sectional views
- Work with dimensioning plans and special dimensions
- Understand and demonstrate dimensioning practices
- Geometric dimensioning and tolerancing and surface texture
- Create drawings using Special Dimensions