

West Virginia University at Parkersburg  
Uniform Course Syllabus

Name of Course: Microstation

Course No. Dra 220

Department: Drafting

Division: Technology

I. Course Objectives

General Objectives

To assure anyone wishing to create technical drawings the means of and the knowledge of the language of visual communication and the skills to produce them. Microstation software and its language are learned.

Specific Objectives

1. To be able to discuss the history of CAD/CAM
2. To understand computer terminology in relation to CAD.
3. To Identify the types of plotters, storage devices and input devices available.
4. To identify the graphic applications using CAD.
5. To be able to draw orthographic views on the system.
6. To be able to draw multi-color views using layers using Microstation
7. Use accuracy and neatness, and speed in producing all required drawings.
8. To be able to draw pictorial, electrical, electronic, metal and mining, petrochemical and architectural drawings.

I. Topics to be Studied

1. Drawing setup and saving
2. Display options and shapes
3. Text options
4. Dimensioning options
5. Plotting
6. Modifying commands
7. Section views
8. Isometric Drawings
9. Attributes

II. Special Projects to be Included in Course

1. Drawings using absolute, relative and polar coordinates
2. Orthographic three-view instrumental drawings
3. Drawing using array and mirror
4. Section drawings
5. Isometric drawings
6. Working drawing

### III. Methods of Student Evaluation

1. Chapter readings
2. Drawing Projects listed above

### IV. Assessment of Outcomes

Ninety-five percent of the class will be expected to complete all of the course assignments. Sixty percent of the class should make a B or better.

### V. Other Information

#### Instructional Procedures

Lectures and demonstrations will be combined with student drawing assignments. Visuals will be utilized to facilitate the student's understanding of the drawings and the course objectives. All drawing will be drawn using hand-drafting instruments.

#### Primary Text:

Harnessing Microstation / J Krishnan et al.

#### Course Description

An introductory course in computer-aided drafting (CAD), Computers are used to create technical drawings. Computer terminology along with Bentley Corporation's software Microstation are used. Drawings include orthographic, pictorial, electronic, petrochemical, metal and mining, and architectural.

**Updated 2003**