

South King County Tech Prep Consortium
Drafting Competencies
Highline Community College

Draft 126 - COMPUTER AIDED DRAFTING I - 5 cr

The student will be able to produce drawings through the use of a computer and be able to prepare basic computer aided drawings using AutoCAD.

- 1 Identify components and terms of the computer.
- 2 Windows explorer (directory structure, file management, and use of the hard disk.
- 3 Demonstrate a knowledge of basic commands required to operate specific computer software programs such as CAD.
- 4 Produce a border and title block.
- 5 Produce a simple multi-view drawing.
- 6 Use CAD output devices (i.e., printer/plotter) to produce drawings.
- 7 Use CAD modify commands to make drawing changes.
- 8 Select proper drawing scale, views and layout.
- 9 Prepare drawings containing horizontal and vertical surfaces.
- 10 Prepare drawings containing circles and/or arcs.
- 11 Prepare drawings containing inclined and oblique surfaces.
- 12 Prepare drawings containing full sections.
- 13 Apply dimensioning to multiview drawings.
- 14 Prepare simple isometric and oblique drawings.

Draft 224 -Architectural Drafting I - 5 cr

- 1 Demonstrate the knowledge and skills necessary for the preparation of architectural and construction working drawings using primarily computer-aided drafting.
- 2 Create a basic residential building floor plan using CAD
- 3 Create an electrical plan
- 4 Create a roof plan
- 5 Generate front and side elevations based on the floor plan
- 6 Create a framing plan
- 7 Create a foundation plan
- 8 Generate a basic building section
- 9 Create a stair section