

South King County Tech Prep Consortium  
Drafting Competencies  
Green River Community College

**DRAFTING 101 - TECHNICAL DRAFTING - 4 cr**

**Performance Competencies for Drafting 101.1: The student will be able to produce basic mechanical drawings by mastering the following manual skills:**

1. Use drafting equipment, measuring scales, drawing media, drafting instruments and consumable materials.
2. Apply line styles, weights (Alphabet of Lines).
3. Apply freehand lettering techniques.
4. Apply axonometric sketching techniques.
5. Prepare graphical presentations with balance and layout of simple multi-view sketches.

**Performance Competencies for Drafting 101.2: Given the necessary drawing tools, the student will be able to produce complex drawings using the following:**

1. Identify and use appropriate scales.
2. Use conversion tables for fractions, decimals and metric measurements.
3. Use of reprographics equipment. i.e., blueprint machine (diaz process).
4. Identify and apply line styles, weights (Alphabet of Lines).
5. Prepare title blocks, other drafting formats and revision blocks.
6. Prepare basic geometric construction.
7. Prepare simple multi-view drawings
8. Apply simple dimensioning.

**Performance Competencies for Drafting 101.3: Given the necessary equipment, the student will be able to prepare multi-view drawings.**

1. Select proper drawing scale, views and layout.
2. Prepare drawings containing horizontal and vertical surfaces.
3. Prepare drawings containing circles and arcs.
4. Prepare drawings containing inclined and oblique surfaces.
5. Prepare drawings incorporating partial views.
6. Prepare drawings incorporating removed details and conventional breaks.

**Performance Competencies for Drafting 101.4: Given the necessary equipment, the student will be able to prepare pictorial drawings.**

1. Prepare isometric drawings.

**Performance Competencies for Drafting 101.5: Given the necessary equipment, the student will be able to apply basic dimensions.**

1. Prepare drawings containing linear standard dimensions and notes.
2. Prepare drawings that include circular standard dimensions.
3. Prepare drawings using metric dimensions.

**Performance Competencies for Drafting 101.6: Given the necessary equipment, the student will be able to prepare sectional views.**

1. Prepare drawings containing full sections and half sections.
2. Prepare drawings containing offset sections.
3. Prepare drawings containing revolved sections.
4. Prepare drawings containing removed sections and broken-out sections

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**DRAFTING 110 (USING AUTOCAD) - 4 cr OR**

**DRAFTING 112 (USING KEYCREATOR) - 4 cr**

**INTRODUCTION TO AUTO CAD**

**Performance Competencies for Drafting 110.01/112.01: The student will be able to produce drawings through the use of a computer.**

1. Identify components and terms of the computer.
2. Windows explorer (directory structure, file management, and use of the hard disk.
3. Format a floppy diskette.
4. Demonstrate a knowledge of basic commands required to operate specific computer software programs such as CAD.

**Performance Competencies for Drafting 110.02/112.02: The student will be able to prepare basic computer aided drawings.**

1. Produce a border and title block.
2. Produce a simple multi-view drawing.
3. Produce a simple multi-view drawing with a title block.
4. Use CAD output devices (i.e., printer/plotter) to produce drawings.

**Performance Competencies for Drafting 110.03/112.03: Given the necessary equipment, the student will be able to prepare multi-view drawings.**

1. Select proper drawing scale, views and layout.
2. Prepare drawings containing horizontal and vertical surfaces.
3. Prepare drawings containing circles and/or arcs.
4. Prepare drawings containing inclined and oblique surfaces.

**Performance Competencies for Drafting 110.04/112.04: Given the necessary equipment, the student will be able to prepare sectional views.**

1. Prepare drawings containing full sections.

**DRAFTING 141- ARCHITECTURAL DRAFTING I - 5 cr**

**Credit for the following competencies may be earned ONLY AFTER ALL the competencies for DT101 have been satisfied**

**Performance Competencies for Drafting DT141.01: Given the necessary equipment, the student will be able to prepare construction drawings for a single-story residence.**

1. Prepare floor plan drawings with dimensions.
2. Prepare elevation drawings with dimensions.
3. Prepare wall section drawing with dimensions.
4. Prepare fireplace section drawing with dimensions.
5. Prepare fireplace elevation drawing with dimensions.
6. Prepare plan and elevation drawings of various roof types; i.e, gable, hip, dutch hip, double shed, and flat.
7. Prepare site plan drawings.

**DRAFTING 142-REVIT ARCHITECTURE 1 - 5 cr**

1. Residence: Floor Plan
2. residence: Roof
3. Residence: Floor Systems and Reflected Ceiling Plans
4. Residence: Elevations
5. Residence: Sections
6. Residence: Floor Plan Features
7. Realistic Rendering/Pespectives

Approved 9/30/09