# Drafting and Print Reading Course No. 21102 Credit: 0.5

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| **Student name:** |  | **Graduation Date:** |  |

Pathways and CIP Codes: **Construction and Design (46.0000) - Design Strand**; Fashion, Apparel, Interior Design (19.0999)

Course Description: **Introductory leve**l general courses, usually offered as a sequence of courses, introduce students to the technical craft of drawing illustrations to represent and/or analyze design specifications and then refine the skills necessary for this craft. Drafting—General courses use exercises from a variety of applications to provide students with the knowledge and experience to develop the ability to perform freehand sketching, lettering, geometric construction, and multi-view projections and to produce various types of drawings (working, detail, assembly, schematic, perspective, and so on). Computer-aided drafting (CAD) systems (if available) are typically introduced and used to fulfill course objectives.

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Identification and knowledge

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Identify types of architectural, mechanical, and schematic drawings |  |
| 1.2 | Identify different views utilized in print reading. |  |
| 1.3 | Display knowledge of careers in drafting. |  |
| 1.4 | Display knowledge of drafting standards (line styles, dimensions, sheet layout, etc.). |  |
| 1.5 | Display knowledge of drafting symbols. |  |
| 1.6 | Interpret work from multi-view drawings. |  |
| 1.7 | Interpret size, proportion, and location of features. |  |
| 1.8 | Interpret inch and metric drawings. |  |
| 1.9 | Interpret basic geometric dimension and tolerancing terminology. |  |

## Benchmark 2: Demonstration

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Demonstrate visualization skills in orthographic projection. |  |
| 2.2 | Demonstrate ability to perform manual drafting skills. |  |
| 2.3 | Demonstrate ability to do lettering on a drawing. |  |
| 2.4 | Demonstrate legend and note reading skills. |  |
| 2.5 | Demonstrate ability to perform sketching geometric construction and 2D drafting. |  |
| 2.6 | Demonstrate the ability to dimension a drawing. |  |
| 2.7 | Convert fractions and decimals proficiently. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

(785) 296-4908

[pathwayshelpdesk@ksde.org](mailto:pathwayshelpdesk@ksde.org)



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

[https://www.ksde.org](https://www.ksde.org/)

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