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

|  |  |  |  |
| --- | --- | --- | --- |
| **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



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

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

The Kansas State Department of Education does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to any group officially affiliated with the Boy Scouts of America and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: KSDE General Counsel, Office of General Counsel, KSDE, Landon State Office Building, 900 S.W. Jackson, Suite 102, Topeka, KS 66612, (785) 296-3201.