# Architecture Design Course No. 21103 Credit: 1.0

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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: **Technical level:** architectural drafting courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from architectural applications. These courses are intended to help students develop general drafting skills but place a particular emphasis on interior and exterior residential (and light commercial) design, site orientation, floor plans, electrical plans, design sketches, and presentation drawings. In addition, students may prepare scale models.

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 0: The following competency is to be taught within ALL technical level courses offered in your school’s approved pathway

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 0.1 | Demonstrate an understanding of industry standards for personal safety including the safe use of tools, equipment, and hazardous materials.  |  |

## Benchmark 1: Architectural applications.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Identify historical styles of architecture and types of structural designs. |  |
| 1.2 | Design a functional structure suitable for a particular site. |  |
| 1.3 | Calculate/estimate building costs for a particular structure and develop brief specifications for the project. |  |
| 1.4 | Produce a floor plan with all walls, doors, windows and stairs properly identified.  |  |
| 1.5 | Draw plumbing and electrical layers. |  |
| 1.6 | Draw a foundation plan for a single-family dwelling. |  |
| 1.7 | Draw elevations and pictorial presentations e.g. exterior, interior, etc.  |  |
| 1.8 | Dimension and draw wall section with all components identified. |  |
| 1.9 | Develop Plot Plan with house, out buildings, trees, utility supply lines and communications supply lines identified. |  |
| 1.10 | Demonstrate the ability to 3D model a structure using different mediums in design. |  |
| 1.11 | Draw a roof framing plan for a single-family dwelling. |  |

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

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

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