Course Information Form (CIF)

Course Code: CCA 212
Course Title: Stairs

Department: Applied Sciences and Technologies
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 46.0201
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 1-2-2
Credit Hour Distribution:

Lecture: 1	Lab: 2	Clinical: 0	**Total: 2**

General Course Information

Catalog Description

Basic theory, calculations, code requirements, safety, proper layout, cutting, and assembly of stairs including open, closed, direction changes, and three step winder.

General Course Objectives

Students will be able to demonstrate the safe construction of different types of stairs according to industry standards.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 098	Placement out of CCS 098	Placement into MAT 060

Prerequisites

Credit in CCA 118 and CCA 119

Methods of Evaluation

The minimum methods of evaluation include: 4 written exams, quizzes, lab exercises, a final written exam, and practical exams.

Instructional Materials and Additional Supplies

Carpentry, Units 63 and 64. Koel, Leonard (2009). Homewood, Illinois: American Technical Publishers.

Course Content

General Learning Outcomes (GLOs)

- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Safety	1. List the safety rules for the construction of a set of stairs. 2. Calculate an acceptable tread cut using safety rules.	2	0	0
Theory	1. Identify the parts of a stair on a drawing. 2. Compute the head room of a given stair from a print. 3. Determine the rough opening for a given stair.	4	0	0
Risers	1. Compute the correct number of risers and exact riser cut for a given stair. 2. List the different types of stringers. 3. Discuss the advantages and disadvantages of the different types of stringers.	4	15	0
Landings	1. Identify the reasons for stair landings. 2. Correctly perform the calculations for locating landings. 3. Demonstrate the construction of various types of stairs according to industry standards. 4. Use appropriate stair-related terminology in verbal and written communications.	3	15	0
Exams	1. Successfully complete the required exams.	2	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
15	30	0