

## Washtenaw Community College Comprehensive Report

### CON 104 Construction Framing I Effective Term: Winter 2020

#### Course Cover

**Division:** Advanced Technologies and Public Service Careers  
**Department:** Heating, Ventilation and A/C  
**Discipline:** Residential Construction Technology  
**Course Number:** 104  
**Org Number:** 14750  
**Full Course Title:** Construction Framing I  
**Transcript Title:** Construction Framing I  
**Is Consultation with other department(s) required:** No  
**Publish in the Following:** College Catalog , Time Schedule , Web Page  
**Reason for Submission:** Course Change  
**Change Information:**  
     **Pre-requisite, co-requisite, or enrollment restrictions**  
     **Outcomes/Assessment**

**Rationale:** This course change will enable students to enroll in this class and a college reading or writing class at the same time.

**Proposed Start Semester:** Fall 2019

**Course Description:** This course covers light frame construction for homes and light industrial buildings. Construction theory in class is included to support lab activities on and offsite. Students will discuss layout techniques, materials required, and proper safety for deck and platform structures, demolition of existing systems, foundation systems and rough stair systems.

#### Course Credit Hours

**Variable hours:** No

**Credits:** 3

**Lecture Hours: Instructor:** 15 **Student:** 15

**Lab: Instructor:** 60 **Student:** 60

**Clinical: Instructor:** 0 **Student:** 0

**Total Contact Hours: Instructor:** 75 **Student:** 75

**Repeatable for Credit:** NO

**Grading Methods:** Letter Grades

Audit

**Are lectures, labs, or clinicals offered as separate sections?:** NO (same sections)

#### College-Level Reading and Writing

Reduced Reading/Writing Scores

#### College-Level Math

Level 1

#### Requisites

**Prerequisite**

CON 108 minimum grade "C"

**Prerequisite**

Reading Level 5; Writing Level 3

**General Education****Degree Attributes**

Below College Level Pre-Reqs  
Statewide articulation approved

**Request Course Transfer****Proposed For:**

Central Michigan University  
Eastern Michigan University  
Ferris State University

**Student Learning Outcomes**

1. Construct a light frame or residential platform.

**Assessment 1**

Assessment Tool: Construction project

Assessment Date: Winter 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmental rubric will be used to score the data.

Standard of success to be used for this assessment: 80% of the students will score 80% or higher on the construction project.

Who will score and analyze the data: Departmental faculty

2. Identify light frame and residential foundation system components.

**Assessment 1**

Assessment Tool: Exam

Assessment Date: Winter 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

3. Identify light frame or residential platform components.

**Assessment 1**

Assessment Tool: Exam

Assessment Date: Winter 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

4. Perform calculations needed to construct a rough stair stringer per industry standards.

**Assessment 1**

Assessment Tool: Construction project

Assessment Date: Winter 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmental rubric will be used to score the data.

Standard of success to be used for this assessment: 80% of the students will score 80% or higher on the construction project.

Who will score and analyze the data: Departmental faculty

### **Assessment 2**

Assessment Tool: Exam

Assessment Date: Winter 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

5. List the construction tasks from start to platform completion.

### **Assessment 1**

Assessment Tool: Exam

Assessment Date: Winter 2020

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

## **Course Objectives**

1. Recognize materials used for construction platforms and decks.
2. Construct a platform using proper materials, layout and safety regulations.
3. Comprehension of required industry standards for platforms and decks.
4. Differentiate between various foundation systems.
5. Identify required tasks to perform for each foundation system.
6. Construct and disassemble foundation system.
7. Recognize various parts of stair systems.
8. Calculate a stair rise and run.
9. Build a stair system safely and within industry standards.
10. Recognize tasks required in the construction process.
11. Determine permits required for a light frame/residential project.
12. Determine which contract documents are required.
13. Differentiate between Michigan Residential and Commercial Building Codes.
14. Apply construction terminology related to excavation.
15. Identify the steps in and labor needs required for an excavations.

## **New Resources for Course**

Student hand tools

## **Course Textbooks/Resources**

Textbooks

Manuals

Periodicals

Software

## **Equipment/Facilities**

## Level III classroom

<b><u>Reviewer</u></b>	<b><u>Action</u></b>	<b><u>Date</u></b>
<b>Faculty Preparer:</b> <i>Cristy Lindemann</i>	<i>Faculty Preparer</i>	<i>May 28, 2019</i>
<b>Department Chair/Area Director:</b> <i>Robert Carter</i>	<i>Recommend Approval</i>	<i>Jun 17, 2019</i>
<b>Dean:</b> <i>Brandon Tucker</i>	<i>Recommend Approval</i>	<i>Jun 18, 2019</i>
<b>Curriculum Committee Chair:</b> <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Nov 12, 2019</i>
<b>Assessment Committee Chair:</b> <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Dec 17, 2019</i>
<b>Vice President for Instruction:</b> <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Dec 18, 2019</i>