

## Washtenaw Community College Comprehensive Report

### CON 108 Introduction to Construction Technology Effective Term: Fall 2019

#### Course Cover

**Division:** Advanced Technologies and Public Service Careers  
**Department:** Heating, Ventilation and A/C  
**Discipline:** Residential Construction Technology  
**Course Number:** 108  
**Org Number:** 14750  
**Full Course Title:** Introduction to Construction Technology  
**Transcript Title:** Intro to Construction Tech  
**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 is an introductory course for students with little or no prior construction training. Students will be introduced to construction terminology, materials, tool usage and methods of measurement. Students will become familiar with construction safety requirements and proper handling of materials, tools and equipment used at all levels of construction projects. Students with acceptable experience or training should contact instructor for an override into the next course in sequence.

#### Course Credit Hours

**Variable hours:** No

**Credits:** 2

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

**Lab: Instructor:** 30 **Student:** 30

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

**Total Contact Hours: Instructor:** 45 **Student:** 45

**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**

Reading Level 5; Writing Level 3

## **General Education**

### **Degree Attributes**

Statewide articulation approved

## **Request Course Transfer**

### **Proposed For:**

Central Michigan University

Eastern Michigan University

Ferris State University

## **Student Learning Outcomes**

1. Determine appropriate materials for specific construction project.

### **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

### **Assessment 2**

Assessment Tool: Lab exercises

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

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

Who will score and analyze the data: Departmental faculty

2. Determine material size and quantity for specific construction project.

### **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

### **Assessment 2**

Assessment Tool: Lab exercises

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

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

Who will score and analyze the data: Departmental faculty

3. Determine specific tools and equipment required for a construction project.

**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

**Assessment 2**

Assessment Tool: Lab exercises

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

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

Who will score and analyze the data: Departmental faculty

4. Inspect and use tools and equipment safely and correctly per project specifications.

**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

**Assessment 2**

Assessment Tool: Lab exercises

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

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. Complete project within set parameters and specifications using proper materials, tools and equipment.

**Assessment 1**

Assessment Tool: Lab Exercises

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

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

Who will score and analyze the data: Departmental faculty

**Course Objectives**

1. Recognize various materials used for construction projects.
2. Determine which material is best used for a certain project by researching manufacturers' recommendations.
3. Determine method of using materials for a certain project using manufacturers' specifications.
4. Calculate material quantity using manufacturers' recommendations for installation requirements.
5. Determine material size required using manufacturers' recommendations and efficient carpenters' practice.
6. Recognize various tools and equipment used for construction projects.
7. Determine which tool and/or equipment is best used for a certain project by researching manufacturers' recommendations.
8. Determine method of using tools and or equipment for a certain project using manufacturers' specifications.
9. Inspect tools and equipment before each use, per manufacturers' and MIOSHA safety regulations.
10. Use tools and equipment properly per manufacturers' recommendations and MIOSHA safety regulations.
11. Perform tasks required of project using tools and equipment in an efficient and craftsman-like manner.
12. Complete a project within the timeline given.
13. Complete a project that meets industry standards.

**New Resources for Course**

Tools required

**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>Aug 14, 2019</i>
<b>Assessment Committee Chair:</b> <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Aug 29, 2019</i>
<b>Vice President for Instruction:</b> <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Sep 04, 2019</i>