Washtenaw Community College Comprehensive Report

CON 255 Construction Concrete and Masonry
Effective Term: Fall 2012

Course Cover

Division: Vocational Technologies
Department: Construction Institute
Discipline: Residential Construction Technology
Course Number: 255
Org Number: 14725
Full Course Title: Construction Concrete and Masonry
Transcript Title: Construction Conc. and Masonry
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Three Year Review / Assessment Report
Change Information:
- **Course title**
- **Course description**
- **Distribution of contact hours**
- **Pre-requisite, co-requisite, or enrollment restrictions**
- **Outcomes/Assessment**
- **Objectives/Evaluation**

Rationale: Advisory board recommendations.
Proposed Start Semester: Fall 2012
Course Description: This course covers concrete and masonry finishes for homes and light industrial buildings to include foundations, slabs, brick, block and stone. Construction theory in class is included to support lab activities on and offsite. Students will discuss layout techniques, materials required, and proper safety regulations for completing concrete and masonry projects per industry standards. This course was previously Residential Construction Concrete and Exterior Finishes.

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

College-level Reading & Writing

College-Level Math

Level 3

Requisites

Prerequisite
CON 104 minimum grade "C"

General Education

Request Course Transfer

Proposed For:
Central Michigan University
Eastern Michigan University
Ferris State University

Student Learning Outcomes

1. Identify and install concrete forms used for light framed construction.
   Assessment 1
   Assessment Tool: Exam
   Assessment Date: Fall 2015
   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: Department faculty
   Assessment 2
   Assessment Tool: Lab Projects
   Assessment Date: Fall 2015
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 80% 0f students will score 80% or higher.
   Who will score and analyze the data: Department faculty

2. Pour and finish concrete projects used in light frame construction.
   Assessment 1
   Assessment Tool: Lab Projects
   Assessment Date: Fall 2015
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 80% 0f students will score 80% or higher.
   Who will score and analyze the data: Department faculty
   Assessment 2
   Assessment Tool: Exam
   Assessment Date: Fall 2015
   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: Department faculty

3. Identify and install masonry systems used in light framed construction.
   Assessment 1
   Assessment Tool: Lab Projects
   Assessment Date: Fall 2015
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All
   Number students to be assessed: All
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 80% 0f students will score 80% or higher.
   Who will score and analyze the data: Department faculty
   Assessment 2
   Assessment Tool: Exam
   Assessment Date: Fall 2015
   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: Department faculty

Course Objectives

1. Recognise concrete form materials used in light frame construction.
   Matched Outcomes
   1. Identify and install concrete forms used for light framed construction.
2. Install concrete forms using proper materials, methods and safety regulations.
   Matched Outcomes
   1. Identify and install concrete forms used for light framed construction.
3. Diagnose problems that may arise when concrete forms are installed incorrectly.
   Matched Outcomes
   1. Identify and install concrete forms used for light framed construction.
4. Recognize concrete compositions used in light frame construction.
   Matched Outcomes
   2. Pour and finish concrete projects used in light frame construction.
5. Pour concrete using proper materials, methods and safety regulations.
   Matched Outcomes
   2. Pour and finish concrete projects used in light frame construction.
6. Finish concrete using proper methods and safety regulations.
   Matched Outcomes
   2. Pour and finish concrete projects used in light frame construction.
7. Diagnose problems that may arise when concrete is installed incorrectly.
   Matched Outcomes
   2. Pour and finish concrete projects used in light frame construction.
8. Recognise various materials, tools, and equipment used for interior and exterior masonry projects.
   Matched Outcomes
9. Diagnose problems that may arise when masonry is installed incorrectly.
   Matched Outcomes
10. Safely install brick within industry standards.
    Matched Outcomes
11. Safely install block within industry standards.
    Matched Outcomes
12. Safely install stone within industry standards.
    Matched Outcomes

New Resources for Course

student hand tools

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom

Reviewer	Action	Date
Faculty Preparer:		
Cristy Lindemann	*Faculty Preparer*	*Feb 16, 2012*
Department Chair/Area Director:		
Cristy Lindemann	*Recommend Approval*	*Feb 16, 2012*
Dean:		
Ross Gordon	*Recommend Approval*	*Feb 17, 2012*
Vice President for Instruction:		
Stuart Blacklaw	*Approve*	*Apr 05, 2012*