

Washtenaw Community College Comprehensive Report

CMG 225 Construction Builders License Effective Term: Fall 2022

Course Cover

College: Advanced Technologies and Public Service Careers

Division: Advanced Technologies and Public Service Careers

Department: Heating, Ventilation and A/C

Discipline: Construction Management

Course Number: 225

Org Number: 14750

Full Course Title: Construction Builders License

Transcript Title: Construction Builders License

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: New Course

Change Information:

Rationale: CON 220 will be inactivated, so we need a way to offer a course at WCC for students that want a builders license. The State of Michigan requires any person making over 600 dollars a year to have a license. There are many competitors in the field that are not tied to college credit nor can you receive financial aid.

Proposed Start Semester: Fall 2022

Course Description: In this course, students will prepare for and practice taking the State of Michigan Builders License Exam. Topics such as building science, business management, construction law, and construction safety standards will be addressed. Students will estimate building materials and labor needed for a small project. This course contains material previously taught in CON 220.

Course Credit Hours

Variable hours: No

Credits: 4

Lecture Hours: Instructor: 60 **Student:** 60

Lab: Instructor: 0 **Student:** 0

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

Total Contact Hours: Instructor: 60 **Student:** 60

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

No Level Required

Requisites

General Education

Request Course Transfer

Proposed For:

Eastern Michigan University

Student Learning Outcomes

1. Identify the Residential Builder License Certification requirements of the Michigan Department of Licensing and Regulatory Affairs.

Assessment 1

Assessment Tool: Outcome-related exam questions

Assessment Date: Fall 2025

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 75% or higher.

Who will score and analyze the data: Departmental faculty

2. Estimate materials and labor needed for a small construction project.

Assessment 1

Assessment Tool: Outcome-related assignment

Assessment Date: Fall 2025

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Project rubric

Standard of success to be used for this assessment: 80% of students will score 75% or higher.

Who will score and analyze the data: Departmental faculty

3. Recognize the State of Michigan Regulatory and Statutory requirements.

Assessment 1

Assessment Tool: Outcome-related exam questions

Assessment Date: Fall 2025

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 75% or higher.

Who will score and analyze the data: Departmental faculty

4. Identify project management and administrative requirements of residential builders.

Assessment 1

Assessment Tool: Outcome-related exam questions

Assessment Date: Fall 2025

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 75% or higher.

Who will score and analyze the data: Departmental faculty

5. List employee safety guidelines according to Michigan Occupational Safety and Health Administration (MIOSHA) standards.

Assessment 1

Assessment Tool: Outcome-related exam questions

Assessment Date: Fall 2025

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 75% or higher.

Who will score and analyze the data: Departmental faculty

6. Describe construction processes and task scheduling for a small project.

Assessment 1

Assessment Tool: Outcome-related assignment

Assessment Date: Fall 2025

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% of students will score 75% or higher.

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Identify the licensing process.
2. Describe the renewal process.
3. Determine the difference between an individual license and a company license.
4. Identify rules that pertain to other Michigan licenses, such as sales, alteration and maintenance contractors.
5. List the requirements of client contracts.
6. List the steps in the process for filing a complaint at the state level.
7. Determine the type of materials needed for foundations, walls, floors and roofs.
8. Determine the amount of materials needed based on square foot, linear foot or volume.
9. Using materials websites, determine the amount of product to purchase.
10. Convert inches to feet.
11. List the types of business organizations.
12. Identify the requirements of the Environmental Protection Agency (EPA).
13. List permitting requirements.
14. Describe the types of warranties.
15. Define construction terminology.
16. Determine state and federal taxes for small businesses.
17. Identify the insurance needs of a small residential building company.
18. Describe MIOSHA record-keeping rules.
19. Identify required fall protection.
20. Determine the best methods for using job site ladders.
21. Describe the process and list the tasks for site engineering.
22. Identify code requirements for a residential foundation.
23. Describe different roofing methods and code requirements.

New Resources for Course

Code books State of Michigan

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Cristy Lindemann</i>	<i>Faculty Preparer</i>	<i>Mar 03, 2021</i>
Department Chair/Area Director: <i>Brian Martindale</i>	<i>Recommend Approval</i>	<i>Mar 09, 2021</i>
Dean: <i>Jimmie Baber</i>	<i>Recommend Approval</i>	<i>Mar 11, 2021</i>
Curriculum Committee Chair: <i>Randy Van Wagnen</i>	<i>Recommend Approval</i>	<i>Oct 29, 2021</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Oct 30, 2021</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Nov 10, 2021</i>