

# CONSTRUCTION TECHNOLOGY - RESIDENTIAL BUILDING AND RENOVATION, ONE-YEAR GENERAL CERTIFICATE

Curriculum Code #6176

Effective May 2026

Division of Engineering, Business and Information Technologies (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/>)

The residential building and renovation one-year general certificate is designed to provide students with the knowledge, cognitive skills and hands-on skills necessary to perform in an entry-level construction position. Employment opportunities exist in a variety of residential construction companies. Every course in the one-year technical certificate program can be applied to the two-year associate of applied science degree in construction technology. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

## First Year

| Fall Semester |                                                 | Hours     |
|---------------|-------------------------------------------------|-----------|
| CNST 121      | CONSTRUCTION DOCUMENT READING                   | 3         |
| CNST 122      | INTRODUCTION TO CARPENTRY                       | 4         |
| CNST 123      | INTRODUCTION TO ELECTRICAL WIRING               | 2         |
| ENGL 161      | COLLEGE COMPOSITION I                           | 3         |
| TECN 111      | TECHNICAL PROBLEM SOLVING                       | 3         |
| SDEV 101      | INTRODUCTION TO THE LCCC COMMUNITY <sup>1</sup> | 1         |
| <b>Hours</b>  |                                                 | <b>16</b> |

## Spring Semester

|                    |                                                                  |              |
|--------------------|------------------------------------------------------------------|--------------|
| ARTS 254           | HISTORY OF AMERICAN ARCHITECTURE                                 | 3            |
| CADD 111           | INTRODUCTION TO COMPUTER AIDED DRAFTING <sup>2</sup>             | 2            |
| CNST 120           | INTRODUCTION TO (HVAC) HEATING, VENTILATION AND AIR CONDITIONING | 2            |
| CNST 124           | INTRODUCTION TO PLUMBING                                         | 2            |
| MTHM 155           | TECHNICAL MATHEMATICS I                                          | 4            |
| Technical Elective |                                                                  | 2-4          |
| <b>Hours</b>       |                                                                  | <b>15-17</b> |
| <b>Total Hours</b> |                                                                  | <b>31-33</b> |

<sup>1</sup> A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 12 or more credit hours.

<sup>2</sup> Indicates that this course requires a prerequisite or may be taken concurrently.

## Technical Electives

| Code     | Title                                    | Hours |
|----------|------------------------------------------|-------|
| CNST 125 | INTRODUCTION TO FINISH CARPENTRY         | 2     |
| CNST 126 | INTRODUCTION TO MASONRY                  | 2     |
| CNST 206 | CONSTRUCTION ESTIMATING II               | 3     |
| CYBR 110 | FUNDAMENTALS OF INTERNET OF THINGS (IOT) | 4     |
| CNST 287 | WORK-BASED LEARNING I - CNST             | 1-3   |
| CNST 288 | WORK-BASED LEARNING II - CNST            | 1-3   |
| CNST 289 | WORK-BASED LEARNING III - CNST           | 1-3   |
| CNST 205 | CONSTRUCTION ESTIMATING                  | 3     |
| CNST 210 | SAFETY IN CONSTRUCTION                   | 2     |

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your advising team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling/>).

**More program information can be found on our website.**  
**(<https://www.lorainccc.edu/engineering/construction/residential-building-renovation-one-year-certificate/>)**

Credit for Prior Learning (PLA) options may be available for your program. For more information, please visit our website: [www.lorainccc.edu/PLA](http://www.lorainccc.edu/PLA) (<http://www.lorainccc.edu/PLA>)

## Program Learning Outcomes

1. Demonstrate effective communication in a construction environment using terms and descriptions common to the industry.
2. Demonstrate knowledge of safety practices by performing tasks using construction safety standards.
3. Demonstrate problem-solving skills through the application of math, science, and/or engineering technology principles.