CONSTRUCTION TECHNOLOGY - CONSTRUCTION ENGINEERING MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6170

Effective May 2023

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

The construction engineering major is designed to provide students with the knowledge, cognitive skills and hands-on experience necessary for the competent performance in an entry-level construction position. Employment opportunities exist in a variety of residential and commercial construction companies. 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**
TECN 111	TECHNICAL PROBLEM SOLVING	3
CNST 121	CONSTRUCTION DOCUMENT READING	3
CNST 122	INTRODUCTION TO CARPENTRY	4
MTHM 155	TECHNICAL MATHEMATICS I	4
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY [2]	1
	Hours	**15**
Spring Semester		
CNST 120	INTRODUCTION TO (HVAC) HEATING, VENTILATION AND AIR CONDITIONING	2
CNST 123	INTRODUCTION TO ELECTRICAL WIRING	2
EMCH 111	STATICS FOR TECHNOLOGY [1]	3
EMCH 112	ENGINEERING MATERIALS	3
ENGL 161	COLLEGE COMPOSITION I	3
MTHM 156	TECHNICAL MATHEMATICS II [1]	4
	Hours	**17**
Second Year		
Fall Semester		
CADD 111	INTRODUCTION TO COMPUTER AIDED DRAFTING [3]	2
CNST 124	INTRODUCTION TO PLUMBING	2
CNST 201	SURVEYING [1]	3
CNST 205	CONSTRUCTION ESTIMATING [1]	3
EMCH 211	STRENGTH OF MATERIALS [1]	4
Social Science Elective		3
	Hours	**17**
Spring Semester		
ARTS 254	HISTORY OF AMERICAN ARCHITECTURE	3
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS [1]	3
PHYC 150	GENERAL PHYSICS I [1]	4
Technical Elective		2-4
	Hours	**12-14**
	Total Hours	**61-63**

1

Indicates that this course requires a prerequisite.

2

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 13 or more credit hours.

3

Indicates that this course has 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

Social Science Electives

Code	Title	Hours
HSTR 151G	CIVILIZATION I	3
HSTR 152G	CIVILIZATION II	3
HSTR 161	UNITED STATES I	3
HSTR 162	UNITED STATES II	3
HSTR 171G	THE WORLD SINCE 1900	3
HSTR 252G	WOMEN IN WORLD HISTORY	3
HSTR 267G	AFRICAN AMERICAN HERITAGE	3
PLSC 156	AMERICAN NATIONAL GOVERNMENT	3
PSYH 151	INTRODUCTION TO PSYCHOLOGY	3
SOCY 151G	INTRODUCTION TO SOCIOLOGY	3

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/associate-of-applied-science-in-construction-technology-construction-engineering/)

Program Learning Outcomes

1. Communicate effectively in a construction environment.

2. Apply math, science, and engineering, technology principles to solve problems in the field of construction.

3. Demonstrate professional and ethical behavior.

4. Perform construction tasks in a safe manor.

5. Demonstrate a sound understanding of the concepts of construction engineering technology and the technical skills needed for the successful employment in the field of construction.

6. Recognize the need to maintain currency in the construction design field.

7. Recognize problems in construction applications and develop appropriate solutions.

8. Use creativity in construction design.