



## **Construction Management C.A.**

Career Community: Building and Construction Trades

Curriculum Code: 1635

Effective: Fall 2022 – Summer 2027

### **Description**

The Construction Management Certificate of Achievement is designed to prepare students to work in entry-level supervisory and management positions related to construction, including site supervisors, construction and project superintendents, field supervisors, project engineers, and estimating/scheduling assistants. Construction management professionals plan, direct, or coordinate activities related to the construction and maintenance of buildings and infrastructure. They participate as members of an integrated project team in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. This curriculum provides students with the opportunity to add construction management competencies to another trade-or technical related certificate or degree (ARCH, BLDT, CIVL, ELTE, HVAC) or to work toward completion of the Construction Management Associate in Applied Science degree. This curriculum provides graduates with a broad foundation of technical and management abilities with an emphasis on job entry skill development, estimating, scheduling, project management, and specialized technical skills related to one of four construction focus areas (residential, heavy/civil, electrical/construction, and HVAC/mechanical construction). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

### **Milestone**

Completion of DCTM 100 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

### **Additional Information**

Students in this program choose one subspecialty pathway to determine the courses to take each semester. Pathway options are Building Construction, Heavy/Civil Construction, Electrical Construction, and HVAC/Mechanical Construction.

Upon completion of a subspecialty, any additional subspecialty courses will not count toward the student's enrollment level for determining financial aid eligibility.

Students who have already completed ELTE 102, HVAC 102, METS 102, TECH 102, or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for DCTM 102. Any of these courses may also be used to fulfill the prerequisite for ARCH 113, ELTE 108, ELTE 109, HVAC 110, and the BLDT courses.

## Contact Information

Contact the Construction Management Program, West Campus Building, Room M103, telephone number 517-483-5338 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

## Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ARCH 113	Materials & Methods of Constr.	4 / 6
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 102	Construction Safety	2 / 3
DCTM 200	Construction Management I	4 / 6
DCTM 201	Construction Management II	4 / 6
DCTM 220	BIM for Construction	4 / 6
MGMT 234	Diversity in the Workplace	3 / 3

## Program of Study Required Courses for Building Construction Subspecialty

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
DCTM 103	Codes and Specifications	3 / 3

## Program of Study Required Courses, Limited Choice for Building Construction Subspecialty – *Select one*

Course Code	Course Title	Credit / Billing Hours
BLDT 130	Building Exterior Construction	4 / 6
BLDT 140	Building Interior Construction	4 / 6
BLDT 150	Intro Masonry/Concrete Const	4 / 6

## Program of Study Required Courses for Heavy/Civil Construction Subspecialty

Course Code	Course Title	Credit / Billing Hours
CIVL 120	Surveying	4 / 6
CIVL 135	Soils Technology	3 / 3
CIVL 141	Site Inspection	3 / 3

## Program of Study Required Courses for Electrical Construction Subspecialty

Course Code	Course Title	Credit / Billing Hours
ELTE 108	Practical Electricity I	2 / 3
ELTE 109	Practical Electricity II	2 / 3
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 141	National Electrical Code I	4 / 4

### Program of Study Required Courses for HVAC/Mechanical Subspecialty

Course Code	Course Title	Credit / Billing Hours
HVAC 100	Fundamentals of HVAC	3 / 3
HVAC 110	Applied Electricity I	3 / 4

### Program of Study Required Courses, Limited Choice for HVAC/Mechanical Subspecialty –

Select One

Course Code	Course Title	Credit / Billing Hours
HVAC 120	Heating I	3 / 4
HVAC 130	Air Conditioning I	3 / 4

### Minimum Total Credit Hours

36 credits / 48 billing hours

### Recommended Course Sequence

Semester I (Fall)
ARCH 113
DCTM 100 – Milestone course
DCTM 102
DCTM 200

Semester II (Spring)
DCTM 201
DCTM 220
Subspecialty Course(s)

Semester III (Fall)
ACCG 101
MGMT 234
Subspecialty Course(s)

*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.*