



## **Construction Management A.A.S.**

Career Community: Building and Construction Trades

Curriculum Code: 1634

Effective: Fall 2022 – Summer 2027

### **Description**

The Construction Management Degree 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 incorporates elements of the Associate Constructor Level I examination body of knowledge as established by the American Institute of Construction. The 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 (building, 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**

In addition to the required General Education courses in Math and English, completion of DCTM 100 and DCTM 103 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses 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 these courses.

### **Additional Information**

Students in this program choose one subspecialty to determine the courses to take each semester. Subspecialty 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.

## General Education - Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one*  
ENGL 121, Composition I, 4 credits / 4 billing hours  
ENGL 124, Technical Writing, 3 credits / 3 billing hours
- English Composition (Second Course)/Communications or Applied Communications – *Select one*  
COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*  
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
- Mathematics or Applied Mathematics – *Select one*  
MATH 115, Technical Math II, 4 credits / 4 billing hours  
MATH 120, College Algebra, 4 credits / 4 billing hours
- Natural Science Lab or Applied Science and Technology Lab – *Select one*  
PHYS 200, Intro to Applied Physics, 4 credits / 5 billing hours  
PHYS 221, Introductory Physics I, 4 credits / 6 billing hours

## 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
ARCH 125	Environmental Systems	4 / 4
CIVL 241	Statics/Strength of Materials	4 / 5
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 102	Construction Safety	2 / 3
DCTM 103	Codes and Specifications	3 / 3
DCTM 200	Construction Management I	4 / 6
DCTM 201	Construction Management II	4 / 6
DCTM 220	BIM for Construction	4 / 6
LEGL 215	Business Law-Basic Principles	3 / 3

**Program of Study Required Courses for Building Construction Subspecialty**

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
BLDT 130	Building Exterior Construction	4 / 6

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

Course Code	Course Title	Credit / Billing Hours
BLDT 140	Building Interior Construction	4 / 6
BLDT 150	Intro Masonry/Concrete Const	4 / 6
BLDT 180	Builder Pre-Licensure Prep	4 / 4

**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 141	National Electrical Code I	4 / 4

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

Course Code	Course Title	Credit / Billing Hours
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 145	Electrical Prints for Building	4 / 5

**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 HVAC/Mechanical Construction 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 Construction 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

64 credits / 78 billing hours

## Recommended Course Sequence

Semester I (Fall)
Gen Ed – Mathematics or Applied Mathematics
ARCH 113
DCTM 100 – Milestone course
DCTM 102
Subspecialty Course
Semester II (Spring)
Gen Ed – English Composition or Applied English
ACCG 101
DCTM 103 – Milestone course
Subspecialty Course
Semester III (Summer)
Gen Ed - English Composition (Second Course)/Communications or Applied Communications
Gen Ed – Natural Sciences Lab or Applied Sciences and Technology Lab
Semester IV (Fall)
ARCH 125
CIVL 241
DCTM 200
LEGL 215
Semester V (Spring)
Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
DCTM 201
DCTM 220
Subspecialty Course

*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.*