



Construction Management A.A.S.

Curriculum Code: 1634

Effective: Fall 2019 – Summer 2024

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.

Additional Information

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

Students who have already completed ELTE 102, HVAC 102, METS 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 Core Courses, Recommended Choices

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

- Communication – *Select one*
COMM 130, Fund of Public Speaking, 3 credits / 3 billing hours
- Global Perspective and Diversity – *Select one*
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
- Math – *Select one*
MATH 115, Technical Math II, 4 credits / 4 billing hours
MATH 120, College Algebra, 4 credits / 4 billing hours

- Science – *Select one*
PHYS 200, Intro to Applied Physics, 4 credits / 5 billing hours
PHYS 221, Introductory Physics I, 4 credits / 6 billing hours
- Writing – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 124, Technical Writing, 3 credits / 3 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	Industrial/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 Pathway

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 for Building Construction Pathway – *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 Pathway

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 for Electrical Construction Pathway – *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 Pathway

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 Pathway

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 for HVAC/Mechanical Construction Pathway –

Select one

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

Total Credit Hours

64-68 credits / 78-87 billing hours

Recommended Course Sequence

Semester I (Fall)	Semester II (Spring)
Math Core ARCH 113 DCTM 100 DCTM 102 Pathway Course(s)	Writing CoreACCG 101 DCTM 103 Pathway Course

Semester III (Summer)	Semester IV (Fall)
Communication Core Science Core	ARCH 125 CIVL 241 DCTM 200 LEGL 215

Semester V (Spring)
Global Perspectives and Diversity Core DCTM 201 DCTM 220 Pathway Course