

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Construction Management
Associate in Applied Science

Curriculum Code: 1634 (Effective Fall 2014 – Summer 2019)

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 six construction focus areas (residential, commercial, heavy/civil, energy management, 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.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Design and Construction Technologies Program, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: www.lcc.edu/design/construction) or Student Services West Campus, West Campus Building, Room M016, telephone number (517) 267-5452.

REQUIREMENTS (See Note 1)

CODE	TITLE	TOTAL: 49 CREDITS CREDIT HOURS
ACCG 101	Accounting Info for Management	3
ARCH 113	Materials & Methods of Constr.	4
ARCH 125	Environmental Systems	4
ARCH 233	Revit Architecture BIM	4
ARCH 275	Sustainable Building Design	4
CIVL 241	Statics/Strength of Materials	4
DCTM 102	Industrial/Construction Safety (See Note 2)	2
DCTM 200	Construction Management I	4
DCTM 201	Construction Management II	4
LEGL 215	Busn Law I, Basic Principles	3
MATH 115	Technical Math II	4
MGMT 234	Diversity in the Workplace	3
SPCH 130	Fund of Public Speaking	3
WRIT 124	Technical Writing	3

LIMITED CHOICE REQUIREMENTS**TOTAL: 15–17 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.**CHOICE 1: [General Education Core Areas](#)****0 Credits**

(Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 3)	0
Global Perspectives and Diversity Core Area (See Note 3)	0
Mathematics Core Area (See Note 3)	0
Science Core Area (See Note 4)	0
Writing Core Area (See Note 3)	0

CHOICE 2: Science Choice**4 Credits**

PHYS 200	Intro Physics With Application	4
PHYS 221	Introductory Physics I	4

CHOICE 3: Technical Focus Area (Choose one Subchoice)**11–13 Credits****Subchoice 3A: Residential Construction (11 Credits)**

BLDT 121	Residential Framing	4
BLDT 123	Remodeling	4
DCTM 103	Codes and Specifications	3

Subchoice 3B: Commercial Construction (11 Credits)

BLDT 150	Intro Masonry/Concrete Const	4
BLDT 160	Steel Framing	4
DCTM 103	Codes and Specifications	3

Subchoice 3C: Heavy/Civil Construction (13 Credits)

CIVL 120	Surveying	4
CIVL 135	Soils Technology	3
CIVL 141	Site Inspection	3
DCTM 150	Civil Construction Materials	3

Subchoice 3D: Energy Management (13 Credits)

AEET 120	Residential Energy	3
AEET 220	Energy Modeling	3
AEET 251	Commercial Energy Systems	4
AEET 256	Building Commissioning	3

Subchoice 3E: Electrical Construction (13 Credits)

ELTE 110	Practical Electricity (See Note 2)	3
ELTE 112	Basic Wiring Installation	2
ELTE 141	National Electrical Code I	4
ELTE 145	Electrical Prints for Building	4

Subchoice 3F: HVAC/Mechanical Construction (12 Credits)

HVAC 100	Fundamentals of HVAC	3
HVAC 110	Applied Electricity I (See Note 2)	3
HVAC 120	Heating I	3
HVAC 130	Air Conditioning I	3

MINIMUM TOTAL**64**

NOTES:

1. Students interested in transferring into the Construction Management program at Eastern Michigan University, Ferris State University, Lawrence Technological University, or Michigan State University should consult the appropriate articulation/transfer agreement.
2. 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 ELTE 110 and HVAC 110.
3. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
4. Students completing "CHOICE 2" have fulfilled the requirements for this Core area.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

Full-Time Student (12-17 credits per semester)

I	II	III	IV
ACCG 101	LEGL 215	SPCH 130	ARCH 233
ARCH 113	MATH 115	WRIT 124	DCTM 200
ARCH 125	Lim.Ch.2		Lim.Ch.3
DCTM 102	Lim.Ch.3		Lim.Ch.3
Lim.Ch.3			

V

ARCH 275
CIVL 241
DCTM 201
MGMT 234

Part-Time Student (6-11 credits per semester)

I	II	III	IV
ACCG 101	LEGL 215	SPCH 130	ARCH 125
ARCH 113	MGMT 234	Lim.Ch.3	MATH 115
DCTM 102	Lim.Ch.3		Lim.Ch.3
V	VI	VII	VIII
CIVL 241	WRIT 124	ARCH 233	ARCH 275
Lim.Ch.3	Lim.Ch.2	DCTM 200	DCTM 201