

## LANSING COMMUNITY COLLEGE

### CURRICULUM GUIDE

#### Construction Management Certificate of Achievement

Curriculum Code: 1635 (Effective Fall 2014 – Summer 2019)

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 (AEET, 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 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](http://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: 28 CREDITS CREDIT HOURS
ACCG 101	Accounting Info for Management	3
ARCH 113	Materials & Methods of Constr.	4
ARCH 233	Revit Architecture BIM	4
ARCH 275	Sustainable Building Design	4
DCTM 102	Industrial/Construction Safety (See Note 2)	2
DCTM 200	Construction Management I	4
DCTM 201	Construction Management II	4
MGMT 223	Supervisory Skills	3

#### LIMITED CHOICE REQUIREMENTS

TOTAL: 11-13 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

<b>CHOICE 1: Technical Focus Area</b> (Choose one Subchoice)	<b>11–13 Credits</b>
<b>Subchoice 1A: Residential Construction</b> (11 Credits)	
BLDT 121 Residential Framing	4
BLDT 123 Remodeling	4
DCTM 103 Codes and Specifications	3
<b>Subchoice 1B: Commercial Construction</b> (11 Credits)	
BLDT 150 Intro Masonry/Concrete Const	4
BLDT 160 Steel Framing	4
DCTM 103 Codes and Specifications	3
<b>Subchoice 1C: Heavy/Civil Construction</b> (13 Credits)	
CIVL 120 Surveying	4
CIVL 135 Soils Technology	3
CIVL 141 Site Inspection	3
DCTM 150 Civil Construction Materials	3
<b>Subchoice 1D: Energy Management</b> (13 Credits)	
AEET 120 Residential Energy	3
AEET 220 Energy Modeling	3
AEET 251 Commercial Energy Systems	4
AEET 256 Building Commissioning	3
<b>Subchoice 1E: Electrical Construction</b> (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
<b>Subchoice 1F: HVAC/Mechanical Construction</b> (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
<b>MINIMUM TOTAL</b>	<b>39</b>

**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.

**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	ARCH 233		ARCH 275
ARCH 113	DCTM 200		DCTM 201
DCTM 102	Lim.Ch.1		MGMT 223
Lim.Ch.1	Lim.Ch.1		Lim.Ch.1

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

I	II	III	IV
ACCG 101	ARCH 233	Lim.Ch.1	DCTM 200
ARCH 113	MGMT 223	Lim.Ch.1	Lim.Ch.1
DCTM 102	Lim.Ch.1		

**V**

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ARCH 275  
DCTM 201