

LANSING COMMUNITY COLLEGE			
Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 1635 (Effective Fall 2017 – Summer 2022)	<b>Construction Management C.A. Pathways</b>		
<p>Students in this program <b>choose one pathway</b> to determine the courses to take each semester. Pathway options are <b>Building Construction, Commercial Construction, Heavy/Civil Construction, Energy Management, Electrical Construction, and HVAC/Mechanical Construction.</b></p> <p>Note: 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 108, ELTE 109, and HVAC 110.</p>			
Full-Time Student (12-17 credits per semester)			
Semester I Full-time Student	Course Title	Prerequisites	Credit/ Billing Hours
Program of Study Requirements			
ACCG 101	Accounting Info for Management	Reading Level 4 and Math Level 4	3 / 3
ARCH 113	Materials & Methods of Constr.	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4	4 / 6
DCTM 100	Intro to the Built Environment	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
DCTM 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
<b>Credits</b>			<b>12 / 16</b>

Semester II Full-time Student	Course Title	Prerequisites	Credit/ Billing Hours
<b>Program of Study Requirements</b>			
DCTM 200	Construction Management I	Reading Level 5 and Writing Level 6	4 / 6
DCTM 220	BIM for Construction	Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
<b>Pathway Requirements - Select 1 Pathway</b> <i>Students take the number of course(s) listed for their pathway.</i>			
<b>Building Construction Pathway - 11-12 credits required for degree</b> <b>Select 2 courses</b>			
BLDT 120	Structural Framing	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 130	Building Exterior Construction	Minimum 2.0 in ((DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 140	Building Interior Construction	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3
<b>Commercial Construction Pathway - 11-12 credits required for degree</b> <b>Select 2 courses</b>			
ARCH 125	Environmental Systems	Reading Level 4 and Writing Level 4 and Math Level 4	4 / 4
BLDT 150	Intro Masonry/Concrete Const	Reading Level 4 and Math Level 3	4 / 6
BLDT 160	Steel Framing	Reading Level 4 and Math Level 3	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3

<b>Heavy/Civil Construction Pathway - 9-10 credits required for degree</b>			
<b>Select 2 courses</b>			
CIVL 120	Surveying	Minimum 2.0 in MATH 114 or Math Level 5	4 / 6
CIVL 135	Soils Technology	Minimum 2.0 in MATH 114 or Math Level 5	3 / 3
CIVL 141	Site Inspection	Reading Level 3 and Writing Level 2 and Math Level 4	3 / 3
DCTM 150	Civil Construction Materials	Minimum 2.0 in (MATH 114 or Math Level 5) and Reading Level 4	3 / 4
<b>Energy Management Pathway - 9-10 credits required for degree</b>			
<b>Select 2 courses</b>			
AEET 120	Residential Energy	Reading Level 3 and Writing Level 4 and Math Level 4	3 / 4
AEET 220	Energy Modeling	Minimum 2.0 in AEET 120 and Reading Level 4 and Writing Level 4 and Math Level 5	3 / 3
AEET 251	Commercial Energy Systems	Minimum 2.0 in (AEET 220 or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 5	4 / 4
AEET 256	Building Commissioning	Minimum 2.0 in (DCTM 103 or AEET 251) and Reading Level 5 and Writing Level 6 and Math Level 5	3 / 4

<b>Electrical Construction Pathway - 10 credits required for degree</b> <b>Select 2 courses</b>			
ELTE 108	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 109	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 112	Basic Wiring Installation	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 141	National Electrical Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
ELTE 145	Electrical Prints for Building	Minimum 2.0 in ELTE 141 and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 5

<b>HVAC/Mechanical Construction Pathway - 9 credits required for degree</b> <b>Select 2 courses</b>			
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 3
HVAC 110	Applied Electricity I	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 120	Heating I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 130	Air Conditioning I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
<b>Credits</b>			<b>14-15 / 18-21</b>
<b>Semester III Full-time Student</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
DCTM 201	Construction Management II	Minimum 2.0 in (DCTM 200 and (MATH 115 or Math Level 6)) and Reading Level 5 and Writing Level 6	4 / 6
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3

<b>Pathway Requirements - Students maintain the Pathway previously selected.</b> <i>Students take the number of course(s) listed for their pathway.</i>			
<b>Building Construction Pathway - 11-12 credits required for degree</b> <b>Select remaining course(s)</b>			
BLDT 120	Structural Framing	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 130	Building Exterior Construction	Minimum 2.0 in ((DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 140	Building Interior Construction	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3
<b>Commercial Construction Pathway - 11-12 credits required for degree</b> <b>Select remaining course(s)</b>			
ARCH 125	Environmental Systems	Reading Level 4 and Writing Level 4 and Math Level 4	4 / 4
BLDT 150	Intro Masonry/Concrete Const	Reading Level 4 and Math Level 3	4 / 6
BLDT 160	Steel Framing	Reading Level 4 and Math Level 3	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3

<b>Heavy/Civil Construction Pathway - 9-10 credits required for degree</b> <b>Select remaining course(s)</b>			
CIVL 120	Surveying	Minimum 2.0 in MATH 114 or Math Level 5	4 / 6
CIVL 135	Soils Technology	Minimum 2.0 in MATH 114 or Math Level 5	3 / 3
CIVL 141	Site Inspection	Reading Level 3 and Writing Level 2 and Math Level 4	3 / 3
DCTM 150	Civil Construction Materials	Minimum 2.0 in (MATH 114 or Math Level 5) and Reading Level 4	3 / 4
<b>Energy Management Pathway - 9-10 credits required for degree</b> <b>Select remaining course(s)</b>			
AEET 120	Residential Energy	Reading Level 3 and Writing Level 4 and Math Level 4	3 / 4
AEET 220	Energy Modeling	Minimum 2.0 in AEET 120 and Reading Level 4 and Writing Level 4 and Math Level 5	3 / 3
AEET 251	Commercial Energy Systems	Minimum 2.0 in (AEET 220 or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 5	4 / 4
AEET 256	Building Commissioning	Minimum 2.0 in (DCTM 103 or AEET 251) and Reading Level 5 and Writing Level 6 and Math Level 5	3 / 4

<b>Electrical Construction Pathway - 10 credits required for degree</b> <b>Select remaining course(s)</b>			
ELTE 108	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 109	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 112	Basic Wiring Installation	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 141	National Electrical Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
ELTE 145	Electrical Prints for Building	Minimum 2.0 in ELTE 141 and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 5



<b>HVAC/Mechanical Construction Pathway - 9 credits required for degree</b> <b>Select remaining course(s)</b>			
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 3
HVAC 110	Applied Electricity I	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 120	Heating I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 130	Air Conditioning I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
<b>Credits</b>			<b>10-11 / 12-15</b>
<b>Total Credits</b>			<b>36-38 / 46-52</b>

<b>Part-Time Student (6-11 credits per semester)</b>			
<b>Semester I Part-time Student</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/ Billing Hours</b>
<b>Program of Study Requirements</b>			
ACCG 101	Accounting Info for Management	Reading Level 4 and Math Level 4	3 / 3
ARCH 113	Materials & Methods of Constr.	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4	4 / 6
DCTM 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
<b>Credits</b>			<b>9 / 12</b>
<b>Semester II Part-time Student</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/ Billing Hours</b>
<b>Program of Study Requirements</b>			
DCTM 100	Intro to the Built Environment	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3

<b>Pathway Requirements - Select 1 Pathway</b> <i>Students take the number of course(s) listed for their pathway.</i>			
<b>Building Construction Pathway - 11-12 credits required for degree</b> <b>Select 1 course</b>			
BLDT 120	Structural Framing	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 130	Building Exterior Construction	Minimum 2.0 in ((DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 140	Building Interior Construction	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3
<b>Commercial Construction Pathway - 11-12 credits required for degree</b> <b>Select 1 course</b>			
ARCH 125	Environmental Systems	Reading Level 4 and Writing Level 4 and Math Level 4	4 / 4
BLDT 150	Intro Masonry/Concrete Const	Reading Level 4 and Math Level 3	4 / 6
BLDT 160	Steel Framing	Reading Level 4 and Math Level 3	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3

<b>Heavy/Civil Construction Pathway - 9-10 credits required for degree</b>			
<b>Select 1 course</b>			
CIVL 120	Surveying	Minimum 2.0 in MATH 114 or Math Level 5	4 / 6
CIVL 135	Soils Technology	Minimum 2.0 in MATH 114 or Math Level 5	3 / 3
CIVL 141	Site Inspection	Reading Level 3 and Writing Level 2 and Math Level 4	3 / 3
DCTM 150	Civil Construction Materials	Minimum 2.0 in (MATH 114 or Math Level 5) and Reading Level 4	3 / 4
<b>Energy Management Pathway - 9-10 credits required for degree</b>			
<b>Select 1 course</b>			
AEET 120	Residential Energy	Reading Level 3 and Writing Level 4 and Math Level 4	3 / 4
AEET 220	Energy Modeling	Minimum 2.0 in AEET 120 and Reading Level 4 and Writing Level 4 and Math Level 5	3 / 3
AEET 251	Commercial Energy Systems	Minimum 2.0 in (AEET 220 or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 5	4 / 4
AEET 256	Building Commissioning	Minimum 2.0 in (DCTM 103 or AEET 251) and Reading Level 5 and Writing Level 6 and Math Level 5	3 / 4

<b>Electrical Construction Pathway - 10 credits required for degree</b> <b>Select 1 course</b>			
ELTE 108	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 109	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 112	Basic Wiring Installation	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 141	National Electrical Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
ELTE 145	Electrical Prints for Building	Minimum 2.0 in ELTE 141 and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 5

<b>HVAC/Mechanical Construction Pathway - 9 credits required for degree</b>			
<b>Select 1 course</b>			
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 3
HVAC 110	Applied Electricity I	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 120	Heating I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 130	Air Conditioning I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
<b>Credits</b>			<b>9-10 / 9-12</b>

Semester III Part-time Student	Course Title	Prerequisites	Credit/ Billing Hours
<b>Pathway Requirements - Students maintain the Pathways previously selected.</b> <i>Students take the number of course(s) listed for their pathway.</i>			
<b>Building Construction Pathway - 11-12 credits required for degree</b> <b>Select 2 courses</b>			
BLDT 120	Structural Framing	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 130	Building Exterior Construction	Minimum 2.0 in ((DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 140	Building Interior Construction	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3
<b>Commercial Construction Pathway - 11-12 credits required for degree</b> <b>Select 2 courses</b>			
ARCH 125	Environmental Systems	Reading Level 4 and Writing Level 4 and Math Level 4	4 / 4
BLDT 150	Intro Masonry/Concrete Const	Reading Level 4 and Math Level 3	4 / 6
BLDT 160	Steel Framing	Reading Level 4 and Math Level 3	4 / 6
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3

<b>Heavy/Civil Construction Pathway - 9-10 credits required for degree</b>			
<b>Select 2 courses</b>			
CIVL 120	Surveying	Minimum 2.0 in MATH 114 or Math Level 5	4 / 6
CIVL 135	Soils Technology	Minimum 2.0 in MATH 114 or Math Level 5	3 / 3
CIVL 141	Site Inspection	Reading Level 3 and Writing Level 2 and Math Level 4	3 / 3
DCTM 150	Civil Construction Materials	Minimum 2.0 in (MATH 114 or Math Level 5) and Reading Level 4	3 / 4
<b>Energy Management Pathway - 9-10 credits required for degree</b>			
<b>Select 2 courses</b>			
AEET 120	Residential Energy	Reading Level 3 and Writing Level 4 and Math Level 4	3 / 4
AEET 220	Energy Modeling	Minimum 2.0 in AEET 120 and Reading Level 4 and Writing Level 4 and Math Level 5	3 / 3
AEET 251	Commercial Energy Systems	Minimum 2.0 in (AEET 220 or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 5	4 / 4
AEET 256	Building Commissioning	Minimum 2.0 in (DCTM 103 or AEET 251) and Reading Level 5 and Writing Level 6 and Math Level 5	3 / 4



<b>Electrical Construction Pathway - 10 credits required for degree</b> <b>Select 2 courses</b>			
ELTE 108	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 109	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 112	Basic Wiring Installation	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 141	National Electrical Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
ELTE 145	Electrical Prints for Building	Minimum 2.0 in ELTE 141 and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 5

<b>HVAC/Mechanical Construction Pathway - 9 credits required for degree</b>			
<b>Select 2 courses</b>			
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 3
HVAC 110	Applied Electricity I	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 120	Heating I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 130	Air Conditioning I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
<b>Credits</b>			<b>6-7 / 6-10</b>
<b>Semester IV Part-time Student</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
DCTM 200	Construction Management I	Reading Level 5 and Writing Level 6	4 / 6
DCTM 220	BIM for Construction	Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
<b>Credits</b>			<b>8 / 12</b>
<b>Semester V Part-time Student</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
DCTM 201	Construction Management II	Minimum 2.0 in (DCTM 200 and (MATH 115 or Math Level 6)) and Reading Level 5 and Writing Level 6	4 / 6
<b>Credits</b>			<b>4 / 6</b>
<b>Total Credits</b>			<b>36-38 / 46-52</b>