

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code:
1634 (Effective Fall
2017 – Summer
2022)

Construction Management A.A.S. Pathways

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

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.

| Semester I | Course Title | Prerequisites | Credit/ Billing Hours |
|---|--------------------------------|--|--------------------------|
| Math Core Area - <i>Select 1</i> | | | |
| MATH 115 | Technical Math II | (Minimum 2.0 in MATH 114 within 2 years or Math Level 5 within 2 years) and Reading Level 5 | 4 / 4 |
| Program of Study Requirements | | | |
| 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 |
| Pathway Requirements <i>Students take the course(s) listed for their pathway.</i> | | | |
| Building Construction Pathway | | | |
| 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 |

| Commercial Construction Pathway | | | |
|---|--------------------------------|---|----------------------------------|
| BLDT 150 | Intro Masonry/Concrete Const | Reading Level 4 and Math Level 3 | 4 / 6 |
| Heavy/Civil Construction Pathway | | | |
| CIVL 120 | Surveying | Minimum 2.0 in MATH 114 or Math Level 5 | 4 / 6 |
| Energy Management Pathway | | | |
| AEET 120 | Residential Energy | Reading Level 3 and Writing Level 4 and Math Level 4 | 3 / 4 |
| Electrical Construction Pathway | | | |
| 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 |
| HVAC/Mechanical Construction Pathway | | | |
| HVAC 100 | Fundamentals of HVAC | Reading Level 3 and Writing Level 2 | 3 / 3 |
| Credits | | | 16-17 / 20-23 |
| Semester II | Course Title | Prerequisites | Credit/ Billing Hours |
| Science Core Area - <i>Select 1</i> | | | |
| PHYS 200 | Intro Physics With Application | Reading Level 5 and Writing Level 6 and Math Level 5 | 4 / 5 |
| PHYS 221 | Introductory Physics I | Reading Level 5 and Writing Level 6 and (Math Level 9 or minimum 2.0 in MATH 122 or MATH 141) | 4 / 6 |
| Program of Study Requirements | | | |
| ACCG 101 | Accounting Info for Management | Reading Level 4 and Math Level 4 | 3 / 3 |
| DCTM 103 | Codes and Specifications | Reading Level 4 and Writing Level 4 and Math Level 4 | 3 / 3 |

| Pathway Requirements - <i>Select 1</i> | | | |
|---|--------------------------------|---|----------------------|
| <i>Students take the course listed for their pathway.</i> | | | |
| Building Construction Pathway | | | |
| 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 |
| Commercial Construction Pathway | | | |
| BLDT 160 | Steel Framing | Reading Level 4 and Math Level 3 | 4 / 6 |
| Heavy/Civil Construction Pathway | | | |
| CIVL 135 | Soils Technology | Minimum 2.0 in MATH 114 or Math Level 5 | 3 / 3 |
| Energy Management Pathway | | | |
| AEET 220 | Energy Modeling | Minimum 2.0 in AEET 120 and Reading Level 4 and Writing Level 4 and Math Level 5 | 3 / 3 |
| Electrical Construction Pathway | | | |
| 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 |
| HVAC/Mechanical Construction Pathway | | | |
| 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 |
| Credits | | | 12-14 / 14-18 |

| Semester III | Course Title | Prerequisites | Credit/Billing Hours |
|--|-------------------------------|--|--------------------------|
| Writing Core Area - <i>Select 1</i> | | | |
| ENGL 124 (formerly WRIT 124) | Technical Writing | (Reading Level 5 and Writing Level 6) or AASD 105 concurrently | 3 / 3 |
| Communication Core Area - <i>Select 1</i> | | | |
| COMM 130 (formerly SPCH 130) | Fund of Public Speaking | Reading Level 5 and Writing Level 6 | 3 / 3 |
| Credits | | | 6 / 6 |
| Semester IV | Course Title | Prerequisites | Credit/ Billing Hours |
| Program of Study Requirements | | | |
| ARCH 125 | Environmental Systems | Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 4 |
| CIVL 241 | Statics/Strength of Materials | Minimum 2.0 in MATH 114 or Math Level 5 | 4 / 5 |
| DCTM 200 | Construction Management I | Reading Level 5 and Writing Level 6 | 4 / 6 |
| LEGL 215 | Business Law-Basic Principles | None | 3 / 3 |
| Credits | | | 15 / 18 |
| Semester V | Course Title | Prerequisites | Credit/ Billing Hours |
| Program of Study Requirements | | | |
| 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 |
| DCTM 220 | BIM for Construction | Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 6 |
| Global Perspectives and Diversity Core Area - <i>Select 1</i> | | | |
| MGMT 234 | Diversity in the Workplace | Reading Level 5 and Writing Level 6 | 3 / 3 |

| Pathway Requirements - <i>Select 1</i> | | | |
|--|--------------------------------|--|-------|
| <i>Students choose one course for their pathway.</i> | | | |
| Building Construction Pathway | | | |
| 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 |
| BLDT 180 | Builder Pre-Licensure Prep | Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 4 |
| Commercial Construction Pathway | | | |
| BLDT 180 | Builder Pre-Licensure Prep | Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 4 |
| Heavy/Civil Construction Pathway | | | |
| 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 |
| Energy Management Pathway | | | |
| 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 |
| Electrical Construction Pathway | | | |
| 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 |

| HVAC/Mechanical Construction Pathway | | | |
|---|--------------------|---|----------------------|
| 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 |
| | | | Credits |
| | | | 14-15 / 18-21 |
| | | | Total Credits |
| | | | 63-67 / 76-86 |