Construction Management A.A.S.
Career Community: Building and Construction Trades
Curriculum Code: 1634
Effective: Fall 2022 – Summer 2027

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.

Milestone
In addition to the required General Education courses in Math and English, completion of DCTM 100 and DCTM 103 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

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

Upon completion of a subspecialty, any additional subspecialty courses will not count toward the student’s enrollment level for determining financial aid eligibility.

Students who have already completed ELTE 102, HVAC 102, METS 102, TECH 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 - Applied Degrees, Recommended Courses
(For the full list of options, see General Education)

- English Composition or Applied English – *Select one*
  ENGL 121, Composition I, 4 credits / 4 billing hours
  ENGL 124, Technical Writing, 3 credits / 3 billing hours

- English Composition (Second Course)/Communications or Applied Communications – *Select one*
  COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours

- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*
  MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours

- Mathematics or Applied Mathematics – *Select one*
  MATH 115, Technical Math II, 4 credits / 4 billing hours
  MATH 120, College Algebra, 4 credits / 4 billing hours

- Natural Science Lab or Applied Science and Technology Lab – *Select one*
  PHYS 200, Intro to Applied Physics, 4 credits / 5 billing hours
  PHYS 221, Introductory Physics I, 4 credits / 6 billing hours

Program of Study Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCG 101</td>
<td>Accounting Info for Management</td>
<td>3 / 3</td>
</tr>
<tr>
<td>ARCH 113</td>
<td>Materials &amp; Methods of Constr.</td>
<td>4 / 6</td>
</tr>
<tr>
<td>ARCH 125</td>
<td>Environmental Systems</td>
<td>4 / 4</td>
</tr>
<tr>
<td>CIVL 241</td>
<td>Statics/Strength of Materials</td>
<td>4 / 5</td>
</tr>
<tr>
<td>DCTM 100</td>
<td>Intro to the Built Environment</td>
<td>3 / 4</td>
</tr>
<tr>
<td>DCTM 102</td>
<td>Construction Safety</td>
<td>2 / 3</td>
</tr>
<tr>
<td>DCTM 103</td>
<td>Codes and Specifications</td>
<td>3 / 3</td>
</tr>
<tr>
<td>DCTM 200</td>
<td>Construction Management I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>DCTM 201</td>
<td>Construction Management II</td>
<td>4 / 6</td>
</tr>
<tr>
<td>DCTM 220</td>
<td>BIM for Construction</td>
<td>4 / 6</td>
</tr>
<tr>
<td>LEGL 215</td>
<td>Business Law-Basic Principles</td>
<td>3 / 3</td>
</tr>
</tbody>
</table>
### Program of Study Required Courses for Building Construction Subspecialty

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLDT 120</td>
<td>Structural Framing</td>
<td>4 / 6</td>
</tr>
<tr>
<td>BLDT 130</td>
<td>Building Exterior Construction</td>
<td>4 / 6</td>
</tr>
</tbody>
</table>

### Program of Study Required Courses, Limited Choice for Building Construction Subspecialty – *Select one*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLDT 140</td>
<td>Building Interior Construction</td>
<td>4 / 6</td>
</tr>
<tr>
<td>BLDT 150</td>
<td>Intro Masonry/Concrete Const</td>
<td>4 / 6</td>
</tr>
<tr>
<td>BLDT 180</td>
<td>Builder Pre-Licensure Prep</td>
<td>4 / 4</td>
</tr>
</tbody>
</table>

### Program of Study Required Courses for Electrical Construction Subspecialty

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTE 108</td>
<td>Practical Electricity I</td>
<td>2 / 3</td>
</tr>
<tr>
<td>ELTE 109</td>
<td>Practical Electricity II</td>
<td>2 / 3</td>
</tr>
<tr>
<td>ELTE 141</td>
<td>National Electrical Code I</td>
<td>4 / 4</td>
</tr>
</tbody>
</table>

### Program of Study Required Courses, Limited Choice for Electrical Construction Subspecialty – *Select one*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTE 112</td>
<td>Basic Wiring Installation</td>
<td>2 / 3</td>
</tr>
<tr>
<td>ELTE 145</td>
<td>Electrical Prints for Building</td>
<td>4 / 5</td>
</tr>
</tbody>
</table>

### Program of Study Required Courses for Heavy/Civil Construction Subspecialty

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVL 120</td>
<td>Surveying</td>
<td>4 / 6</td>
</tr>
<tr>
<td>CIVL 135</td>
<td>Soils Technology</td>
<td>3 / 3</td>
</tr>
<tr>
<td>CIVL 141</td>
<td>Site Inspection</td>
<td>3 / 3</td>
</tr>
</tbody>
</table>

### Program of Study Required Courses for HVAC/Mechanical Construction Subspecialty

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
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</thead>
<tbody>
<tr>
<td>HVAC 100</td>
<td>Fundamentals of HVAC</td>
<td>3 / 3</td>
</tr>
<tr>
<td>HVAC 110</td>
<td>Applied Electricity I</td>
<td>3 / 4</td>
</tr>
</tbody>
</table>

### Program of Study Required Courses, Limited Choice for HVAC/Mechanical Construction Subspecialty – *Select one*

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit / Billing Hours</th>
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<tbody>
<tr>
<td>HVAC 120</td>
<td>Heating I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 130</td>
<td>Air Conditioning I</td>
<td>3 / 4</td>
</tr>
</tbody>
</table>
**Minimum Total Credit Hours**  
64 credits / 78 billing hours

**Recommended Course Sequence**

<table>
<thead>
<tr>
<th>Semester I (Fall)</th>
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<tbody>
<tr>
<td>Gen Ed – Mathematics or Applied Mathematics</td>
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<tr>
<td>ARCH 113</td>
<td></td>
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<tr>
<td>DCTM 100 – Milestone course</td>
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<tr>
<td>DCTM 102</td>
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<tr>
<td>Subspecialty Course</td>
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<table>
<thead>
<tr>
<th>Semester II (Spring)</th>
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<tbody>
<tr>
<td>Gen Ed – English Composition or Applied English</td>
<td></td>
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<tr>
<td>ACCG 101</td>
<td></td>
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<tr>
<td>DCTM 103 – Milestone course</td>
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<td>Subspecialty Course</td>
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<table>
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<tr>
<th>Semester III (Summer)</th>
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<tbody>
<tr>
<td>Gen Ed - English Composition (Second Course)/Communications or Applied Communications</td>
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<td>Gen Ed – Natural Sciences Lab or Applied Sciences and Technology Lab</td>
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<table>
<thead>
<tr>
<th>Semester IV (Fall)</th>
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<tbody>
<tr>
<td>ARCH 125</td>
<td></td>
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<tr>
<td>CIVL 241</td>
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<tr>
<td>DCTM 200</td>
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<tr>
<td>LEGL 215</td>
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*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.*