



Building Construction A.A.S.

Career Community: Building and Construction Trades

Curriculum Code: 1766

Effective: Fall 2023 – Summer 2028

Description

The Building Construction Degree is designed to prepare students to work as entry-level foremen, superintendents, project managers, estimating/scheduling assistants, as well as laborers (masons, concrete construction, and carpenters). Building Construction professionals plan, direct, or coordinate activities related to the construction and maintenance of buildings and infrastructure. This curriculum incorporates elements required for home construction, renovation work, and small-scale commercial 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 (masonry, concrete, framing, doors/windows/siding, roofing, and interior installation/finishes).

Milestone

In addition to the required General Education courses in Math and English, completion of DCTM 100 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

If students have already completed ELTE 102, HVAC 102, METS 102, TECH 102, or WELD 102 with a grade of 2.0 or higher, that will satisfy the DCTM 102 requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Building Construction Technologies Program at the West Campus Building, Room M103, telephone number 517-483-5338 or Student Services West Campus, West Campus Building, Room M106, 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
- English Composition (second course)/Communication or Applied Communication – *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*
GEOG 200, World Regional Geography, 4 credits / 4 billing hours
SOCL 120, Introduction to Sociology, 4 credits / 4 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
STAT 170, Introduction to Statistics, 4 credits / 4 billing hours
- Natural Sciences Lab or Applied Science and Technology Lab – *Select one*
BIOL 120, Environmental Science, 4 credits / 6 billing hours

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
BLDT 130	Building Exterior Construction	4 / 6
BLDT 140	Building Interior Construction	4 / 6
BLDT 150	Intro Masonry/Concrete Const	4 / 6
BLDT 180	Builder Pre-Licensure Prep	4 / 4
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 101	Drafting/Intro to CAD	3 / 4
DCTM 102	Construction Safety	2 / 3
DCTM 103	Codes and Specifications	3 / 3
DCTM 200	Construction Management I	4 / 6
ELTE 110	Practical Electricity	4 / 6
HVAC 100	Fundamentals of HVAC	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ARCH 113	Materials & Methods of Const.	4 / 6
ARCH 125	Environmental Systems	4 / 4
CIVL 120	Surveying	4 / 6
METS 140	Rigging	3 / 4.5

Minimum Total Credit Hours

64 credits / 83 billing hours

Recommended Course Sequence

Semester I (Fall)
Gen Ed – Mathematics or Applied Mathematics
BLDT 120
DCTM 100 – Milestone course
DCTM 101
DCTM 102

Semester II (Spring)
Gen Ed – English Composition or Applied English
BLDT 130
BLDT 150
DCTM 103
HVAC 100

Semester III (Fall)
Gen Ed – English Composition (second course)/Communication or Applied Communication
BLDT 140
DCTM 200
Limited Choice

Semester IV (Spring)
Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Gen Ed – Natural Sciences Lab or Applied Science and Technology Lab
BLDT 180
ELTE 110

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.