

Building Construction Technology • Associate in Applied Science

Why Choose Building Construction Technology?

This program prepares students for entry-level positions in the construction industry, working on commercial and residential structures. Coursework emphasizes estimating, field layout and hands-on laboratory courses. Technicians need a background in mathematics and physical science as well as a thorough knowledge of construction materials, methods and equipment.

The program includes general education courses in English, mathematics, physics, and related courses in materials testing, estimating, plans and specifications, computer applications, framing, mechanical/electrical systems, construction practices and computer-aided design.

Graduates of the associate degree program may choose employment with construction companies or may continue study toward a bachelor of science degree in the ACCE-accredited Construction Management program at Ferris.

Prepare for a Great Career

The construction of a modern building is a complex endeavor requiring the efforts of a wide range of professional, technical and skilled personnel. Some of the most important people on any construction site are the building construction technicians.

Technicians know how to lay out a building, prepare project estimates, read blueprints, develop operation schedules, formulate material orders and coordinate the subcontractors.

Graduates of the Building Construction Technology program have the necessary skills to serve as an integral part of the general contractor's management team. Positions also are available in related fields such as materials sales, insurance adjusting, building inspection and equipment sales.

Admission Requirements

Admission to the College of Technology is open to high school graduates who demonstrate academic preparedness, maturity and seriousness of purpose with backgrounds appropriate to their chosen program of studies. Among first-time students in our technical programs, the average high school GPA is 2.8, and the average ACT composite score is 20.

Students entering the Building Construction Technology program must have a high school diploma with a 'C' average or better and be prepared to enroll in all required courses including mathematics and English. An ACT math subscore of 19 or better also is required. Fully prepared students enter the program in the fall semester. Students not fully prepared who complete the preparatory courses during the fall semester may enter the program sequence in the winter semester, following a modified course sequence.

Graduation Requirements

The Building Construction Technology program at Ferris leads to an associate in applied science degree. Graduation requires a minimum 2.0 GPA in core classes, in the major and overall. Students must complete all general education requirements as outlined on the General Education website.

Required Courses

| | Credit Hours |
|--|--------------|
| General Education | |
| ENGL 150 English 1 | 3 |
| ENGL 211 Industrial and Career Writing | 3 |
| MATH 115 Intermediate Algebra | 3 |
| MATH 120 Trigonometry | 3 |
| PHYS 211 Introductory Physics 1 | 4 |
| Electives: | 3 |
| Cultural Enrichment | 3 |
| Social Awareness | 3 |
| ISYS 105 Intro Micro Systems-Software | 3 |
| Major | |
| Choose one: | |
| BCTM 213 Wood-Steel Framing and Finish | 3 |
| OR | |
| BCTM 223 Mech-Elec Plans and Specs | 3 |
| BCTM 225 Field Engineering | 3 |
| CONM 111 Construction Practices | 3 |
| CONM 112 Plans and Specifications | 3 |
| CONM 116 Construction Graphics | 2 |
| CONM 121 Materials Properties-Testing | 3 |
| CONM 122 Const Surveying-Layout | 3 |
| CONM 211 Const Quantity Estimating | 3 |
| CONM 212 Soils and Foundations | 3 |
| CONM 221 Statics and Structures | 3 |
| CONM 222 Construction Administration | 3 |
| HVAC 337 Mech-Elec Systems for Building | 3 |
| Minimum credit hours required for A.A.S. degree: | 63/64 |



More Information

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FERRIS STATE UNIVERSITY

COLLEGE OF ENGINEERING TECHNOLOGY