

Building Construction Technology

Degree Type

Associate in Applied Science

Contact Information

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Horton Hall 240

Delivery Methods

Face-to-Face: Wahpeton

The Building Construction Technology curriculum prepares students with skills to work in many areas of the construction industry. The program educates and trains the future leaders of the construction industry with a unique blend of education and hands-on training. Graduates can work for builders, general contractors and subcontractors in commercial, industrial and residential construction. Students develop the skills, knowledge and attitudes necessary to function on the construction site with the potential to advance into supervisory positions within the construction industry.

The program provides students with realistic classroom and laboratory experiences emphasizing rough carpentry, exterior finishes, finish carpentry, interior finishes, concrete construction, steel erection, assembly of pre-engineered metal building systems, equipment operation, construction safety, print reading and project supervision. In addition, students take courses in communications, human relations, technical mathematics, and business use of computers to help provide them with career-advancing skills.

Green and/or sustainable construction is specifically covered in multiple courses with an emphasis on energy efficient buildings and sustainable building materials.

While students are fully employable upon completion of this program, some may wish to continue their education by returning for an additional year and earn a second major in Construction Management Technology.

NOTE: This program requires either an HP EliteBook or ZBOOK laptop or equivalent. Please refer to the NDSCS website for specifications. For further information, contact Randy Stach, department chair, at 701-671-2116.

Admission Requirements*

The applicants must be high school graduates or equivalent. Students considered for acceptance must complete all admission requirements.

Please Note: Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see www.NDSCS.edu/current-students/student-success/test-center for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

**Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.*

Award

Upon successful completion of the required courses, students will be awarded an Associate in Applied Science degree in Building Construction Technology.

Required Courses

Course Code	Title	Credits
CMT 144	Construction Estimating I	3
BCT 110	Concrete and Sitework	4
BCT 111	Concrete Theory	2
BCT 115	Intro to Light Commercial Construction	3
BCT 131	Rough Carpentry	3
BCT 132	Exterior Finish Construction	3
BCT 133	Carpentry Fundamentals	2
BCT 140	Intro to Print Reading	2
BCT 201	Supervised Occupational Experience I	6
BCT 202	Construction Seminar	2
BCT 203	Supervised Occupational Experience II	4
BCT 212	Steel Frame Construction	3
BCT 220	Project Supervision	3
BCT 222	Construction Safety	2
BCT 224	Building Layout	2
BCT 231	Interior Finishes	3
BCT 232	Finish Carpentry	3
BCT 233	Commercial Finishes	3
BCT 240	Commercial Print Reading	3
MFGT 120	Basic Welding I	1

Related/General Education Courses

Course Code	Title	Credits
ENGL 110	College Composition I	3
COMM 110	Fundamentals of Public Speaking	3
HPER 210	First Aid & CPR (Professional/Community)	2
MATH 130	Technical Math	2
MATH 132	Technical Algebra I	2
MATH 136	Technical Trigonometry	2
FYE 101	Science of Success	1
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives (4 credits)	4
Total Required Credits		76