

## Construction Management Technology

### ► Contact Information

Randy Stach, department chair  
Randy.Stach@ndscs.edu  
701-671-2116  
Horton Hall 240

### ► Delivery Methods

Face-to-Face: Wahpeton  
Some Classes  
Available Online

This program is designed to provide individuals with the knowledge and skills needed to start a career in the construction management field. Classroom and laboratory experiences emphasize commercial, residential and civil related construction.

Students will take classes in the areas of construction materials and methods, print reading, safety, construction specifications, project management and supervision as well as hands-on classes for estimating, scheduling, surveying, material testing and quality control. In addition, students take courses in communications, human relations, technical mathematics, and business use of computers to help provide them with career-advancing skills.

The construction industry has a high demand for individuals with an education in construction management both regionally and nationally. The Construction Management Technology program prepares students for a career in construction as a construction manager, project manager, project engineer, field engineer, job site superintendent, estimator, scheduler, quality control and many other managerial positions whose duties and responsibilities ensure that construction projects are completed on-time, within budget, to the desired quality, and safely.

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, the Associate in Applied Science degree in Construction Management Technology also provides transfer options to four-year colleges and universities in construction management related fields.

**NOTE:** This program requires either an HP EliteBook 850 or ZBOOK 15 laptop or equivalent. Please refer to the NDSCS website for specifications. The cost will be approximately \$1065.00 for the EliteBook 850 and \$2100.00 for the ZBOOK 15, if purchased through NDSCS. 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](http://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 Construction Management Technology.

Course Code	Course Title	Credits
ARCT 144	Construction Estimating I	3
ARCT 231	Construction Methods and Materials II	3
ARCT 241	Construction Estimating II	3
ARCT 242	Construction Estimating III	3
BCT 140	Introduction to Print Reading	2
BCT 220	Project Supervision	3
BCT 222	Construction Safety	2
BCT 240	Commercial Print Reading	3
CMT 150	Construction Document Management	2
CMT 225	Mechanical and Electrical Systems	2
CMT 251	Construction Documents and Specifications	3
CMT 252	Project Management	3
CMT 253	Construction Scheduling	3
CMT 297	Cooperative Education	2
CT 132	Materials Testing/Quality Control	3
Survey Elective (choose one)		2
CMT 120	Surveying Fundamentals	
BCT 224	Building Layout	
Residential Materials Elective (choose one)		2
BCT 133	Carpentry Fundamentals (2)	
ARCT 131	Construction Methods & Materials I (3)	

Business/Technical Electives (5 credit minimum)		5
ACCT 200	Elements of Accounting I (4)	
BADM 202	Principles of Management (3)	
BADM 240	Sales (3)	
BADM 281	Organizational Behavior (3)	
BADM 282	Human Resource Management (3)	
BUSN 120	Fundamentals of Business (3)	
CAD 120	Introduction to AutoCAD (3)	
CMT 121	Plane Surveying (2)	
CMT 165	Residential Project Experience (1)	
CMT 265	Residential Project Experience (1)	
CT 111	Civil Plans and Specifications (2)	
UAS 111	Introduction to UAS (2)	
UAS 112	Unmanned Aircraft Systems Certification (2)	

Related/General Education Courses		
COMM 110	Fundamentals of Public Speaking	3
ENGL 110	College Composition I	3
English/Communication Elective (choose one)		3
ENGL 105	Technical Communications	
ENGL 120	College Composition II	
ENGL 125	Introduction to Professional Writing	
FYE 101	Science of Success	1
HPER 210	First Aid and CPR (Professional/Community)	2
MATH 130	Technical Mathematics	2
MATH 132	Technical Algebra I	2
MATH 136	Technical Trigonometry	2
Social and Behavioral Sciences, Humanities, History and/or Computer Electives		4
Recommended:		
• CSCI 116 – Business Use of Computers – 3 cr		
• PSYC 100 – Human Relations in Organizations – 2 cr		

**Total Required Credits** **71**