

CONSTRUCTION & MANUFACTURING

CONSTRUCTION MANAGEMENT

Delivery: Fully Online

Start: Fall or Spring Semester, Full- or Part-Time

AWARDS

- Construction Management A.S. Degree 60 cr.
- Construction Management A.A.S. Degree 60 cr.
- Construction Codes & Inspection Certificate 24 cr.
- Construction Codes & Permitting Specialist Certificate . . . 23 cr.

MAJOR DESCRIPTION

Construction Management A.S. / A.A.S degree prepares students for supervisory and management positions in the construction industry. The curriculum combines basic fundamentals with key courses in applied management, engineering, design and business that are required to manage complex construction projects.

Construction management is an ideal career choice if you have a strong, general interest in building and design plus an aptitude for taking the lead role on big projects from start to finish. As a construction manager, you'll oversee all phases of a project, from planning to budgeting to production.

Construction Codes and Inspection Certificate is designed to prepare the student for a career as an inspector and/ or plan reviewer in various areas of the construction inspection field, and expand the knowledge of the construction manager or field superintendent on the various components that make up the building code. The student gains the knowledge and develops skills necessary to perform as a construction inspector or plan reviewer in general building code compliance inspection or in specific areas of code compliance, and prepares them to sit for the applicable certified inspector test administered by the International Code Council. It is one pathway to the Associate in Applied Science (A.A.S.) in Construction Management.

Construction Codes and Permitting Certificate is designed to prepare the student for a career as a permit specialist for a local government, third-party inspection firms, contractors, or design firms. This program will also expand the knowledge of the working permit technicians, inspectors, construction manager or field superintendent on the various components that make up the building code and the permitting process. The student gains the knowledge and develops skills necessary to perform as a permit coordinator and prepares them to sit for the applicable certified permit technician, certified building, and certified residential tests administered by the International Code Council. It is one pathway to the Associate in Applied Science (A.A.S.) in Construction Management.

The Construction Management A.S. has two articulation agreements for 4 year degrees:

Minnesota State University of Moorhead
Construction Management - B.S.

Bemidji State University
Construction Management - B.A.S.

WORK ENVIRONMENT

Working in this field is likely to include both office and construction site work.

Construction managers, inspectors and plan reviewers spend considerable time alone or as part of a team. Construction site work may require climbing ladders or crawling in tight spaces. Most work full time during regular business hours.

POTENTIAL JOB TITLES

- Project Manager
- Design Manager
- Permit Coordinator
- Permit Administrator
- Building Official
- Building Inspector
- Plan Reviewer
- Site Manager

SALARY DATA

See latest data at careerwise.minnstate.edu.

- Average Wage: \$49.18/hour
- Top Earners: \$62.31/hour

ADDITIONAL INFORMATION

Scan the QR code for more program information and specific program costs.

A windows PC computer able to use the current Microsoft Office suite is required for all awards.

CMSV1200 requires a Windows PC that is compatible with the most up-to-date requirements for both Autodesk AutoCAD and Autodesk Revit. Current system requirements for this computer can be found on the Autodesk website.



CONSTRUCTION MANAGEMENT

A.S. DEGREE

*This is a suggested sample course sequence.
Please contact your program advisor regarding your academic plans.*

First Year - Fall Semester		15 cr
CMSV2860	Construction Plan Reading	2
CMSV2870	Construction Management	3
ENGL1150	Composition I	3
PHIL1100	Ethics	3
PSYC1105	General Psychology	4

First Year - Spring Semester		15 cr
CMSV2850	Construction Safety	2
CMSV2875	Mechanical & Electrical Systems	3
CMSV2890	Building Organization & Tech	3
ENGL2000	Composition II	3
MATS1300	College Algebra or	
MATS1340	Math for Engineering Technology	4

Second Year - Fall Semester		13 cr
CMSV2885	Construction Estimating	3
ACCT1010	Principles of Financial Accounting I	4
COMS1020	Interpersonal Communication	3
ECON1100	Principles of Microeconomics	3

Second Year - Spring Semester		17 cr
CMSV2100	Soils & Concrete Technology	4
CMSV2900	Construction Scheduling	3
ARTS1310	History of Architecture	3
BUSN1000	Foundations of Management	3
PHYS1100	College Physics I	4

TOTAL PROGRAM REQUIREMENTS 60

CONSTRUCTION MANAGEMENT

A.A.S. DEGREE

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First Year - Fall Semester		14 cr
CMSV2860	Construction Plan Reading	2
CMSV2870	Construction Management	3
ENGL1150	Composition I	3
PHIL1100	Ethics	3
	Technical Elective*	3

First Year - Spring Semester		15 cr
CMSV2850	Construction Safety	2
CMSV2875	Mechanical & Electrical Systems	3
CMSV2890	Building Organization & Technology	3
	Technical Elective*	3
MATS1300	College Algebra or	
MATS1340	Math for Engineering Technology	4

Second Year - Fall Semester		15 cr
CMSV1200	Construction Graphics	3
CMSV2885	Construction Estimating	3
BUSN1000	Foundations of Management	3
COMS1020	Interpersonal Communication	3
	Technical Electives*	3

Second Year - Spring Semester		16 cr
CMSV2100	Soils & Concrete Technology	4
CMSV2900	Construction Scheduling	3
CMSV2970	Construction Management Internship	3
	Technical Electives*	3
PHYS1050	Introduction to Physics	3

TOTAL PROGRAM REQUIREMENTS 60

** Select technical electives from CMSV courses or BUSN1600. Other courses may be used but will require approval. Please see an advisor.*

CONSTRUCTION CODES & INSPECTION CERTIFICATE

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First Year - Fall Semester 11 cr

CMSV2710	IRC Plan Review & Inspections	3
CMSV2741	Fire Suppression & Alarm Systems	3
CMSV2860	Construction Plan Reading.	2
CMSV2890	Building Organization & Technology.	3

First Year - Spring Semester 13 cr

CMSV2100	Soils & Concrete Technology.	4
CMSV2720	IBC Plan Review & Inspections	3
CMSV2730	IMC Plan Review & Inspections.	3
CMSV2875	Mechanical & Electrical Systems.	3

TOTAL PROGRAM REQUIREMENTS 24

CONSTRUCTION CODES & PERMITTING SPECIALIST CERTIFICATE

*This is a sample course sequence.
Please contact your program advisor regarding your academic plans.*

One Year Plan:

First Year - Fall Semester 11 cr

CMSV 1101	Intro to the Const Industry.	3
CMSV 1200	Construction Graphics.	3
CMSV 2710	IRC Plan Review & Inspections	3
CMSV 2860	Construction Plan Reading.	2

First Year - Spring Semester 12 cr

BUSN 1600	Intro to Public Administration	3
CMSV 2720	IBC Plan Review & Inspections	3
CMSV 2875	Mechanical & Electrical Systems.	3
CMSV 2890	Building Organization & Technology.	3

TOTAL PROGRAM REQUIREMENTS 23



DAKOTA COUNTY
TECHNICAL COLLEGE

A member of Minnesota State

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DCTC IS AN AFFIRMATIVE ACTION, EQUAL OPPORTUNITY EMPLOYER/EDUCATOR.

This information is available in an alternate format by calling 651-423-8469 or TTY/Minnesota Relay at 1-800-627-3529.