

## AS: Construction Management

2020-2021

This program will prepare 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. The Associate of Science in Construction Management is designed to articulate to:

University of Minnesota Crookston B.S. in Manufacturing Management degree  
 Minnesota State University at Moorhead B.S. in Construction Management degree  
 Minnesota State University at Moorhead B.S. in Operations Management degree

### Program Courses

Course No.	Course Title	Credits
ACCT2111	Financial Accounting	4
BUS2200	Principles of Management	3
CMSV1200	Construction Graphics	3
CMSV2100	Soils and Concrete Technology	3
CMSV2875	Mechanical and Electrical Systems	4
CMSV2885	Construction Estimating	4
CMSV2890	Building Organization and Technology	3

### Program Electives

Course No.	Course Title	Credits
<b>Program Electives - 6 credits:</b>		
BUS1220	Effective Supervision <i>or</i>	3
CMSV1000	Construction Professionalism Seminar <i>or</i>	4
CMSV1300	Legal Aspects of Construction <i>or</i>	3
CMSV2200	Construction Quality Assurance and Quality Control <i>or</i>	4
CMSV2870	Construction Management <i>or</i>	3
CMSV2895	Construction Management Internship <i>or</i>	3
CMSV2900	Construction Scheduling	3

### General Education Courses

Course No.	Course Title	Credits
ART2300	Architectural History	2
COMM1110	Principles of Interpersonal Communication	3
ECON1070	Principles of Economics Micro	3
ENGL1202	College Writing II	2
PHYS1201	Principles of Physics I	5
PSYC1150	General Psychology	3

#### College Writing I: (minimum grade 1.67)

ENGL1200	Gateway College Writing (minimum grade 1.67) <i>or</i>	4
ENGL1201	College Writing I (minimum grade 1.67)	4

#### Pre-Calculus or College Algebra and Pre-Calculus:

MATH1170	Pre-Calculus <i>or</i>	4
MATH1180	College Algebra and Pre-Calculus	5

#### Ethics or Environmental Ethics:

PHIL1020	Ethics <i>or</i>	3
PHIL1200	Environmental Philosophy	3

### MnTC Electives

Course No.	Course Title	Credits
<b>Electives to reach 30 MnTC credits and 60 total credits:</b>		

### NHCC Residency and GPA

Course No.	Course Title	Credits
<b>15 Credits must be earned at NHCC:</b>		
<b>2.00 overall GPA for NHCC courses</b>		

**Total Credit Required 60**

## Degree Requirements

2.00 overall GPA for NHCC courses

### Notes

It is recommended that students intending to transfer to the University of Minnesota B.A.S. or Minnesota State University Moorhead B.S. program consult with a counselor about the best course selection options. Students may best be served by choosing MATH courses to fulfill the electives. University of Minnesota students should take MATH 1200 or 1221. Minnesota State University Moorhead students should take MATH 1200. It is further recommended that students intending to transfer to the Minnesota State University Moorhead B.S. program should select BUS 1220 and BUS 1300 as electives.

### Program Outcomes

- Develop a foundation of essential knowledge about the cultural, social, and natural worlds, and individual well-being.
- Understand and utilize information that describes and prescribes the physical basis, technical specifics and sequential process of building construction
- Formulate a consistent system of actions involving the study of the construction process and the management of that process in an organized and knowledgeable manner Develop intellectual and practical skills, including:
- Develop a basic understanding of building codes and regulations Understanding of construction documents system and organization.
- Be able to prepare a construction project cost estimates
- Be able to prepare construction project schedules Apply the principles of the Critical Path Method Organize and schedule construction activities
- Refine communications skills with subordinates, peers and superiors
- Deduce essential data that is required to prepare cost estimates from construction drawings
- Evaluate and use computer technology in estimating and scheduling
- Demonstrate personal and social responsibility, including enhance personal development in: Good work attitudes, values, and habits
- Self-confidence Responsibility
- Better understanding of career options Realistic appraisal of strengths
- Prepare, develop, and refine individual CPM and PDM networks in classroom exercises upon an individual and team bases
- Gain first-hand experiences associated with supervisory and/or management roles in an industrial setting
- Refine communications skills with subordinates, peers and superiors
- Implement, develop and/or refine skills in production, management, and personnel matters

### Integrative Learning, including:

- Apply construction management techniques to an actual construction management project
- Apply the principles, knowledge and skills learned in the classroom to on-the-job practices and procedures in the construction industry real life situations
- Develop and refine problem-solving techniques
- Formulate systematic and sequential plans, monitor plans, and evaluate projects to assure that quality control goals are achieved

**Degree Information**

The Associate of Science (A.S.) degree is intended for students whose primary goal is to complete the credentials for a specific career and/or prepare for transfer to complete a bachelor's degree at a college or university with whom North Hennepin Community College has an articulation agreement. The A.S. degree provides a balance of general education courses and the required scientific, professional or technical courses in the degree program.

A student shall:

Earn a minimum of 60 semester credits as required in the program, with a grade point average of 2.00 (C) or above in courses taken at North Hennepin Community College. Specific programs may have additional requirements or a higher minimum grade point average.

Earn a minimum of 15 semester credits at North Hennepin Community College. A student must complete at least 50% of career specific courses at North Hennepin Community College.

Earn 30 credits in at least 6 Minnesota Transfer Curriculum (MnTC) goal areas. Earn 30 professional/technical credits.

Have four years to complete the graduation requirements as published in the catalog in effect at the time of their initial enrollment. Students taking more than four years to complete their graduation requirements may follow any catalog published during the four-year period preceding their graduation.

Completion of an A.S. degree fulfills the Goal Area 2 requirement of the Minnesota Transfer Curriculum (MnTC).

**Developmental Courses**

Some students may need preparatory course(s) in Math and/or English. Courses numbered below 1000 will not apply toward a degree.

**Equal Opportunity Employer and Disability Access Information**

North Hennepin Community College is a member of Minnesota State Colleges and Universities system and an equal opportunity employer and educator. This document is available in alternative formats to individuals with disabilities by calling 763-493-0555 or through the Minnesota Relay Service at 1-800-627-3529.

**Transfer Information**

If you are planning on transferring to another institution, follow the guidelines available on our transfer resources web page to help you plan the process: [Transfer Information](#)

**Career Opportunities**

Information on careers, including salary and employment outlook data, is available on the iseek and Bureau of Labor Statistics websites: [www.iseek.org](http://www.iseek.org) and [www.bls.gov](http://www.bls.gov).

**Accreditation**

North Hennepin Community College is accredited by the: Higher Learning Commission 30 N. LaSalle Street, Suite 2400 Chicago, IL 60602-2504 1-800-621-7440