

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 and Inspection Certificate 24 cr.

MAJOR DESCRIPTION

Construction Management 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.

The Construction Codes and Inspection Certificate program 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.

The Construction Management A.S. is designed to transfer to:

University of Minnesota

Construction Management – B.A.S.

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 inspectors and plan reviewers spend considerable time inspecting worksites, reviewing plans for code compliance, alone or as part of a team. Field inspectors may have to climb ladders or crawl in tight spaces, whereas plan reviewers spend time in office settings and meetings. Most work full time during regular business hours.

POTENTIAL JOB TITLES

- Project Manager
- Design Manager
- Area Superintendent
- Quantity Surveyor
- Chief Estimator
- Building Official
- Building Inspector
- Plan Reviewer
- Site Manager

SALARY DATA

See latest data at careerwise.minnstate.edu.

- Average Wage: \$48.35/hour
- Top Earners: \$70.03/hour

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 | Financial Accounting | 4 |
| COMS1020 | Interpersonal Communications | 3 |
| ECON1100 | 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

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

| 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 Communications | 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 the following ECMA courses: ECMA1130, 2210, 1139 & 2260. Other courses may be used but will require a petition.*

CONSTRUCTION CODES & INSPECTIONS CERTIFICATE

This is a suggested sample course sequence.

Please contact your program advisor regarding your academic plans.

First Year - Fall Semester **11 cr**

| | | |
|----------|---|---|
| CMSV2860 | Construction Plan Reading. | 2 |
| CMSV2710 | IRC Plan Review & Inspections | 3 |
| CMSV2890 | Building Organization & Technology. | 3 |
| CMSV2740 | Fire Suppression & Alarm Systems | 3 |

First Year - Spring Semester **13 cr**

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

TOTAL PROGRAM REQUIREMENTS 24

