

# Construction Management

## Department Information

- **Department Web Site:**  
[www.ndsu.edu/ccee/](http://www.ndsu.edu/ccee/) (<http://www.ndsu.edu/ccee/>)
- **Credential Offered:**  
B.S.Cons.M.
- **Sample Program Guide:**  
[catalog.ndsu.edu/programs-study/undergraduate/construction-management/#planofstudytext](http://catalog.ndsu.edu/programs-study/undergraduate/construction-management/#planofstudytext) (<http://catalog.ndsu.edu/programs-study/undergraduate/construction-management/#planofstudytext>)

## Major Requirements

### Major: Construction Management

**Degree Type:** B.S.Cons.M.

**Minimum Credits Required for Degree:** 123

### University Degree Requirements

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 30 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.
6. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
7. Students presenting transfer credit must meet the NDSU residence credits and the minimum upper level credit. Of the 30 credits earned in residence, a minimum of 15 semester credits must be in courses numbered 300 or above, and 15 semester credits must be in the student's curricula for their declared major.

For complete information, please refer to the Degree and Graduation Requirements (<http://catalog.ndsu.edu/academic-policies/undergraduate-policies/degree-and-graduation/>) section of this Bulletin.

### University General Education Requirements

A list of university approved general education courses and administrative policies are available here (<http://catalog.ndsu.edu/academic-policies/undergraduate-policies/general-education/#genedcoursestext>).

Code	Title	Credits
<b>Category C: Communication</b>		<b>12</b>
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing <sup>†</sup>		
<b>Category R: Quantitative Reasoning <sup>†</sup></b>		<b>3</b>
<b>Category S: Science and Technology <sup>†</sup></b>		<b>10</b>
<b>Category A: Humanities and Fine Arts <sup>†</sup></b>		<b>6</b>
<b>Category B: Social and Behavioral Sciences <sup>†</sup></b>		<b>6</b>
<b>Category W: Wellness <sup>†</sup></b>		<b>2</b>
<b>Category D: Cultural Diversity <sup>**†</sup></b>		
<b>Category G: Global Perspectives <sup>**†</sup></b>		
<b>Total Credits</b>		<b>39</b>

\*

Courses for category D & G are satisfied by completing D & G designated courses in another general education category.

†

General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

## Major Requirements

Code	Title	Credits
<b>Construction Management Core Requirements</b>		
CM&E 111	Introduction to Construction Management and Engineering	1
CM&E 200	Construction Documents and Codes	3
CM&E 203	Building Construction: Methods and Materials	3
CM&E 204	Construction Surveying	3
CM&E 212	Construction Graphic Communications	3
CM&E 240	Financial Cost Concepts for Construction Managers	3
CM&E 250	Construction Statics and Mechanics	3
CM&E 260	Soils and Foundations	3
CM&E 301	Construction Technology and Equipment	3
CM&E 305	Pre-Construction Management	3
CM&E 315	Specifications and Contracts <sup>1</sup>	3
CM&E 380	Construction Estimating: Quantities and Costs	3
CM&E 403	Scheduling and Project Control <sup>1</sup>	3
CM&E 405	Construction Support Operations <sup>1</sup>	3
CM&E 421	Electrical and Mechanical Construction	3
CM&E 431	Sustainable Design and Construction	3
CM&E 450	Steel Design and Construction	3
CM&E 453	Concrete Design and Construction	3
CM&E 488	Construction Management Capstone	3
CHEM 121 & 121L	General Chemistry I and General Chemistry I Laboratory	4
ENGL 320 or ENGL 321	Business and Professional Writing Writing in the Technical Professions	3
GEOL 105 or GEOL 106	Physical Geology The Earth Through Time	3
MATH 105 or MATH 107	Trigonometry Precalculus	3
MATH 146	Applied Calculus I	4
PHYS 211 & 211L	College Physics I and College Physics I Laboratory	4
STAT 330	Introductory Statistics	3
<b>Business Minor Courses (24 credit):</b>		
ACCT 102 or ACCT 200	Fundamentals of Accounting Elements of Accounting I	3
Select one ECON course from the following:		3
ECON 105 or ECON 201 or ECON 202	Elements of Economics Principles of Microeconomics Principles of Macroeconomics	
MGMT 320	Foundations of Management	3
MRKT 320 or FIN 320	Foundations of Marketing Principles of Finance	3
BUSN 431	Business Law I-Contracts, Property and Torts	3
BA Minor 300/400 Elec. I <sup>1</sup>		3
BA Minor 300/400 Elec. II <sup>1</sup>		3

BA Minor 300/400 Elec. III <sup>1</sup>

3

**Total Credits****103****Degree Requirements and Notes:**

- An overall minimum cumulative GPA of 2.50 in all courses are required to graduate with a B.S. in Construction Management.
- Students must apply for the minor through the College of Business and maintain a minimum 2.50 cumulative GPA to be eligible to enroll in all 300/400 level courses offered by the College of Business.
- A cumulative GPA of 2.50 is required for both internal and external transfer students into this program.

**Accelerated MBA Program Notes:**

A maximum of 15 graduate credits may be used to satisfy both graduate and undergraduate degree requirements. Accelerated B.S.Cons.M./MBA students are to complete the following prescribed curriculum to meet that 15-credit limit.

**1**

The student in collaboration with a department advisor must identify the courses from the MBA program that will satisfy specific requirements in the undergraduate Construction Management program on the Accelerated Declaration form. Students are to complete the following graduate level classes in place of the required undergraduate course:

- CM&E 715 for CM&E 315 (3 cr.)
- CM&E 603 for CM&E 403 (3 cr.)
- CM&E 605 for CM&E 405 (3 cr.)
- Three BA Minor 300/400 Electives (6 cr.)