

# Construction Management Major

## Major Requirements

Degree Type: B.S.Cons.M.  
Minimum Credits Required: 123

### University Degree Requirements

For complete details on these and other university degree requirements, refer to the Degree and Graduation Requirements (<http://catalog.ndsu.edu/academic-policies/undergraduate-policies/degree-and-graduation/>) section in the University Catalog.

1. Minimum of 120 semester credits (some programs may exceed this minimum).
2. Complete the University General Education requirements.
3. Minimum institutional GPA of 2.00 based on work taken at NDSU.
4. Minimum of 30 credits in resident at NDSU.
5. Minimum of 36 upper level credits (courses numbered 300 or higher).
6. Students with transfer credit must meet the NDSU 30 credits in residence (#4). Of these 30 credits in residence, a minimum of 15 credits must be in courses numbered 300 or above, and 15 credits must be in the student's declared major curricula.

### University General Education Requirements

A list of university approved general education courses along with the administrative policies governing the requirement and the categories is available here (<http://catalog.ndsu.edu/academic-policies/undergraduate-policies/general-education/>).

Code	Title	Credits
<b>Category C: Communication</b>		<b>12</b>
<b>Category R: Quantitative Reasoning</b>		<b>3</b>
<b>Category S: Science and Technology</b>		<b>10</b>
<b>Category A: Humanities and Fine Arts</b>		<b>6</b>
<b>Category B: Social and Behavioral Sciences</b>		<b>6</b>
<b>Category W: Wellness</b>		<b>2</b>
<b>Category D: Cultural Diversity</b>		
<b>Category G: Global Perspectives</b>		
<b>Category L: Digital Literacy</b>		
<b>Total Credits</b>		<b>39</b>

## 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
<b>Total Credits</b>		<b>103</b>

### 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.

<sup>1</sup> 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.)