Construction Management

Department Information

- **Department Location:**
  Construction Management and Engineering
- **Department Phone:**
  701-231-6202
- **Department Web Site:**
  www.ndsu.edu/construction/
- **Degrees Offered:**
  B.S.Cons.M.
- **Plan Of Study Sample:**
  bulletin.ndsu.edu/programs-study/undergraduate/construction-management/#planofstudytext

Major Requirements

**Major: Construction Management**

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

**Minimum Credits Required for Degree:** 124

**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 specific by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 36 credits presented for graduation must be in courses number 300 or higher.
6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
   a. Of these 60, at least 36 must be NDSU residence credits as defined in #7.
   b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
7. At least 36 credits must be NDSU resident credits. Residence credits include credits registered and paid for at NDSU.

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

**University General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>College Composition I</td>
<td></td>
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<tr>
<td>ENGL 120</td>
<td>College Composition II</td>
<td></td>
</tr>
<tr>
<td>COMM 110</td>
<td>Fundamentals of Public Speaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Upper Division Writing †</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Reasoning (R)  †</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Science and Technology (S)  †</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Humanities and Fine Arts (A) †</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Sciences (B) †</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Wellness (W) †</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Cultural Diversity (D) †</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Global Perspectives (G) †</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 39

* May be satisfied by completing 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.
A list of university approved general education courses and administrative policies are available here (http://bulletin.ndsu.edu/academic-policies/undergraduate-policies/general-education/#genedcourses).

### Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CM&amp;E 111</td>
<td>Introduction to Construction Management and Engineering</td>
<td>1</td>
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<tr>
<td>CM&amp;E 200</td>
<td>Construction Documents and Codes</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 203</td>
<td>Building Construction: Methods and Materials</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 204</td>
<td>Construction Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 212</td>
<td>Construction Graphic Communications</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 240</td>
<td>Financial Cost Concepts for Construction Managers</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 250</td>
<td>Construction Statics and Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 260</td>
<td>Soils and Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 301</td>
<td>Construction Technology and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 305</td>
<td>Pre-Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 315</td>
<td>Specifications and Contracts</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 380</td>
<td>Construction Estimating: Quantities and Costs</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 403</td>
<td>Scheduling and Project Control</td>
<td>3</td>
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<tr>
<td>CM&amp;E 405</td>
<td>Construction Support Operations</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 421</td>
<td>Electrical and Mechanical Construction</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 430</td>
<td>Land Development</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 450</td>
<td>Steel Design and Construction</td>
<td>3</td>
</tr>
<tr>
<td>CM&amp;E 453</td>
<td>Concrete Design and Construction</td>
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<tr>
<td>CM&amp;E 488</td>
<td>Construction Management Capstone</td>
<td>3</td>
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**Additional Courses:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 121 &amp; 121L</td>
<td>General Chemistry I and General Chemistry I Laboratory (May satisfy general education category S)</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 320</td>
<td>Business and Professional Writing (May satisfy general education category C)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 321</td>
<td>Writing in the Technical Professions</td>
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</tr>
<tr>
<td>GEOL 105</td>
<td>Physical Geology (May satisfy general education category S)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 107</td>
<td>Precalculus</td>
<td></td>
</tr>
<tr>
<td>MATH 146</td>
<td>Applied Calculus I (May satisfy general education category R)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 211 &amp; 211L</td>
<td>College Physics I and College Physics I Laboratory (May satisfy general education category S)</td>
<td>4</td>
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<tr>
<td>STAT 330</td>
<td>Introductory Statistics</td>
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</table>

**Business Minor Courses:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 102</td>
<td>Fundamentals of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 105</td>
<td>Elements of Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
<td></td>
</tr>
<tr>
<td>&amp; ECON 202</td>
<td>and Principles of Macroeconomics</td>
<td></td>
</tr>
<tr>
<td>MGMT 320</td>
<td>Foundations of Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 320</td>
<td>Foundations of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or FIN 320</td>
<td>Principles of Finance</td>
<td></td>
</tr>
<tr>
<td>BUSN 431</td>
<td>Business Law I-Contracts, Property and Torts</td>
<td>3</td>
</tr>
<tr>
<td>BA Minor 300/400 Elec. I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BA Minor 300/400 Elec. II</td>
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</tr>
<tr>
<td>BA Minor 300/400 Elec. III</td>
<td></td>
<td>3</td>
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</tbody>
</table>
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

Total Credits 103-106

Degree Requirements and Notes

- A student must complete at least 60 semester credits of professional level course work in his/her program while in residence and enrolled in the College of Engineering. Students transferring into the College of Engineering from programs with professional accreditation are exempt from this residency requirement but are subject to the University residency requirement.

- An overall minimum cumulative GPA of 2.50 in all courses and a minor in Business Administration with a minor GPA of 2.50 are required to graduate with a B.S. in Construction Management.

- A cumulative GPA of 2.50 is required for both internal and external transfer students into this program.

- To satisfy the Gen Ed Category B requirements, a student can choose between two options: ECON 105 plus an additional course within Category B OR ECON 201 and ECON 202. Both options satisfy the Gen Ed Category G requirement and the requirements for the BA minor.