# **Construction Management**

- Bachelor of Science (B.S.)
- Program Curriculum



Mathematics/Science coursework	<u>15 cr.</u>
CHEM 1020 - Chemical Technology	4 cr.
<ul> <li>course also satisfies UNIFI Scientific Reasoning requirement</li> </ul>	
MATH 1150 - Calculus for Technology	4 cr.
PHYSICS 1511 - General Physics I	4 cr.
<ul> <li>course also satisfies UNIFI Scientific Reasoning requirement</li> </ul>	
STAT 1772 - Introduction to Statistical Methods	3 cr.
<ul> <li>course also satisfies UNIFI Quantitative Reasoning requirem</li> </ul>	ient.
Technical Core 4	1 <mark>8 cr.</mark>
TECH CM 1000 - Introduction to Construction Processes	3 cr.
TECH CM 1050 - Construction Safety	3 cr.
TECH CM 1100 - Construction Documents	3 cr.
TECH CM 2000 - Land, Route & Construction Surveying	3 cr.
TECH CM 2050 - Construction Law	3 cr.
TECH 2080 - Statics & Strengths of Materials	3 cr.
TECH CM 2100 - Mechanical Systems in Construction	3 cr.
TECH CM 3000 - Civil Construction	3 cr.
TECH CM 3050 - Construction Estimating	3 cr.
TECH CM 3100 - Electrical Constr. Materials & Methods	3 cr.
TECH CM 3150 - Constr. Project Planning, Sched. & Contro	l 3 cr.
TECH CM 3250 - Computerized Project Management	3 cr.
TECH CM 4050 - Construction Management	3 cr.
TECH CM 4200 - Structural Components of Construction	3 cr.
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TECH CM 4300 - Construction Technology & Innovation 3 cr. TECH CM 4400 - Construction Management Senior Project 3 cr.

### **Business & Management coursework**

ACCT 2120 - Principles of Financial Accounting	3 cr.
ECON 1031 - Introduction to Business Economics	3 cr.
ENGLISH 3772 - Technical Writing for Eng. Technologists	3 cr.
MGMT 3100 - Legal & Social Environment of Business	3 cr.

Credit Totals	
Math/Science coursework	15 cr.
Technical Core coursework	48 cr.
<b>Business &amp; Management coursework</b>	12 cr.
UNI Foundational Inquiry (UNIFI)	37 cr.
Credits counted twice (major & UNIFI)	) -13 cr.
Total	99 cr.
University Electives needed	21 cr.
Grand Total 1	20 cr.

UNI Foundational Inquiry	37 cr.
Written Communications	3 cr.
Oral Communications	3 cr.
Quantitative Reasoning • requirement completed with STAT 1772.	3 cr.
Human Condition (Domestic)	3 cr.
Human Condition (Global)	3 cr.
Scientific Reasoning • requirement completed with PHYSICS 1511.	4 cr.
Human Expression	3 cr.
Responsibility	3 cr.
UNIFI Elective	3 cr.
requirement completed with CHEM 1020.	
• requirement completed with ECON 1031.	3 cr.
UNIFI Elective	3 cr.
UNIFI Elective	3 cr.

Inspired by the University of Northern Iowa mission to engage students in high-quality and high-impact learning experiences within a challenging and supportive environment, UNI's new general education requirements are designed to ensure that students' foundational learning experiences lead to a lifetime full of potential. For more information, visit **unifi.uni.edu**.

### **Utilizing University Electives**

Students enrolled in the Construction Management B.S. program at UNI have 21 open university elective credits to complete prior to graduation. Selecting one of the minors below will effectively utilize these credits:

General Business Concepts Minor	24 cr.
ACCT 2120 - Principles of Financial Accounting	3 cr.
ECON 1011 - Statistics for Business Analytics	3 cr.
ECON 1031 - Intro to Business Economics <sup>^</sup>	3 cr.
MKTG 2110 - Principles of Marketing	3 cr.
MGMT 2080 - Intro to Information Systems	3 cr.
MGMT 3100 - Legal & Social Environment of Business <sup>^</sup>	3 cr.
MGMT 3965 - Organizational Behavior	3 cr.
STAT 1772 - Intro to Statistical Methods <sup>^</sup>	3 cr.
Real Estate Minor	15 cr.
MKTG 2110 - Principles of Marketing	3 cr.
FIN 3110 - Principles of Real Estate	3 cr.
FIN 3115 - Real Estate Law & Brokerage	3 cr.
FIN 3120 - Real Estate Appraisal & Investment	3 cr.
Elective (TECH CM 1000 - Intro to Construction Processes)^	3 cr.
Certificate in Entrepreneurship	15 cr.
ECON 1031 - Introduction to Business Economics	3 cr.
MKTG 2110 - Principles of Marketing	3 cr.
ENTR 2010 - Financials for the Entrepreneurrial Enterprise	3 cr.
ENTR 3583 - Entrepreneurship	3 cr.
ENTR 3586 - Entrepreneurship Strategy	3 cr.

^- denotes course is also part of Construction Management curriculum.

#### Department of Applied Engineering & Technical Management University of Northern Iowa 25 Industrial Technology Center Cedar Falls, IA 50614-0178 Phone: (319) 273-2561 II E-mail: appliedengineering@uni.edu

### **Important ALEKS Test Information**

The ALEKS test is a math placement test that all UNI students must complete prior to enrolling in certain math & science courses. Below are the scores required for the math & science requirements in this program: • PHYSICS 1511: 45 • STAT 1772: 50 • MATH 1150: 61

# **Construction Management**

- Bachelor of Science (B.S.)
- Program Curriculum



### Example course sequence for *first-year, freshmen* students

	Total: 15 cr.		. 12 01.
University elective course	3 cr.	Total	: 12 cr
University elective course	3 cr.	University elective course	3 cr
TECH CM 4200 - Structural Components of Construction <sup>*FO</sup>	3 cr.	TECH CM 4400 - Construction Management Senior Project	3 cr
TECH CM 4050 - Construction Management <sup>^FO</sup>	3 cr.	TECH CM 4300 - Construction Technology & Innovation <sup>/so</sup>	3 cr
Fall 4 UNIFI elective course	3 cr.	Spring 4 UNIFI elective course	3 cr
	Total: 15 cr.		: 15 cr.
ACCT 2120 - Principles of Financial Accounting <sup>^</sup>	3 cr.	MGMT 3100 - Legal & Social Environment of Business	3 cr
TECH CM 3100 - Electrical Construction Materials & Methods <sup>^FO</sup>	3 cr.	ENGLISH 3772 - Technical Writing for Engineering Technologists	3 cr
TECH CM 3050 - Construction Estimating <sup>^FO</sup>	3 cr.	TECH CM 3250 - Computerized Project Management <sup>^so</sup>	3 cr
TECH CM 3000 - Civil Construction <sup>FO</sup>	3 cr.	TECH CM 3150 - Construction Project Planning, Scheduling & Control	
UNIFI Human Condition (Global) course	3 cr.	UNIFI Responsibility course	3 cr
Fall 3		Spring 3	
	Total: 15 cr.	Total	: 15 cr.
University elective course	3 cr.	University elective course	3 cr
TECH CM 2050 - Construction Law <sup>FO</sup>	3 cr.	TECH CM 2100 - Mechanical Systems in Construction <sup>^so</sup>	3 cr
TECH CM 2000 - Land, Route & Construction Surveying^FO	3 cr.	TECH 2080 - Statics & Strengths of Materials <sup>^</sup>	3 cr
CHEM 1020 - Chemical Technology	4 cr.	STAT 1772 - Introduction to Statistical Methods	3 cr
UNIFI Human Condition (Domestic) course	3 cr.	UNIFI Human Expression course	3 cr
Fall 2		Spring 2	
	Total: 16 cr.		: 16 cr
University elective course	3 cr.	University elective course	3 cr
TECH CM 1050 - Construction Safety <sup>FO</sup>	3 cr.	ECON 1031 - Introduction to Business Economics	3 cr
TECH CM 1000 - Introduction to Construction Processes	3 cr.	TECH CM 1100 - Construction Documents <sup>ASO</sup>	3 cr
PHYSICS 1511 - General Physics I	4 cr.	MATH 1150 - Calculus for Technology <sup>so</sup>	4 cr
Fall 1 UNIFI Written Communication course	3 cr.	Spring 1 UNIFI Oral Communication course	3 cr

# Example course sequence for *transfer students with an A.A. or A.S.* degree

	4 cr.	MATH 1150 - Calculus for Technology <sup>so</sup>	4 cr.
TECH CM 1000 - Introduction to Construction Processes	3 cr.	TECH CM 1100 - Construction Documents <sup>^so</sup>	3 cr.
TECH CM 1050 - Construction Safety <sup>FO</sup>	3 cr.	TECH CM 2100 - Mechanical Systems in Construction <sup>^so</sup>	3 cr.
TECH CM 2050 - Construction Law <sup>FO</sup>	3 cr.	ACCT 2120 - Principles of Financial Accounting	3 cr.
ECON 1031 - Introduction to Business Economics	3 cr.	ENGLISH 3772 - Technical Writing for Engineering Technologists	3 cr.
7	Total: 16 cr.	Tota	l: 16 cr.
Fall 2		Spring 2	
CHEM 1020 - Chemical Technology	4 cr.	TECH 2080 - Statics & Strengths of Materials <sup>^</sup>	3 cr.
TECH CM 2000 - Land, Route & Construction Surveying^FO	3 cr.	TECH CM 3150 - Construction Project Planning, Scheduling & Contro	ol^ 3 cr.
TECH CM 3000 - Civil Construction <sup>^FO</sup>	3 cr.	TECH CM 3250 - Computerized Project Management <sup>^so</sup>	3 cr.
TECH CM 3050 - Construction Estimating <sup>^FO</sup>	3 cr.	TECH CM 4300 - Construction Technology & Innovation <sup>^so</sup>	3 cr.
TECH CM 3100 - Electrical Construction Materials & Methods^FO	3 cr.	MGMT 3100 - Legal & Social Environment of Business	3 cr.
7	Total: 16 cr.	Tota	l: 15 cr.
Fall 3			
STAT 1772 - Introduction to Statistical Methods	3 cr.		
TECH CM 4050 - Construction Management <sup>^FO</sup>	3 cr.		
TECH CM 4200 - Structural Components of Construction <sup>^FO</sup>	3 cr.	Legend	
TECH CM 4400 - Construction Management Senior Project	3 cr.	^ - course requires a prerequisite.	
	Total: 12 cr.	* - course requires a co-requisite. Fo - course is only offered in the fa	dl.

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Fall 1

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<sup>so</sup> - course is only offered in the spring.