CONSTRUCTION ENGINEERING

Description
Construction engineering (CONE) is a program of the Charles W. Durham School of Architectural Engineering and Construction. The construction engineering major integrates engineering, construction and management courses. This program is designed for persons fulfilling the construction industry's need for licensed professional engineers. It resembles the construction management program but provides a greater emphasis on engineering, scientific, and technical courses to meet requirements for licensure as a professional engineer. The courses focus on the application of engineering principles to solve real-world construction problems. They include instruction in civil engineering, structural principles, material testing and evaluation, project management, computer-assisted design, 3D animation, sustainability and graphic communication.

The Durham School Construction Engineering program is accredited by EAC-ABET, Inc.

The educational objectives of the construction engineering program are to produce graduates who will (in three to five years after graduation):

• Possess knowledge acquisition skills enabling them to remain current throughout their careers;
• Apply engineering principles of analysis and design to the systems being constructed;
• Employ technical skills with innovation and dedication to pursue improved functionality, increased efficiency and decreased costs;
• Use communication skills to effectively share their ideas with many forms of media;
• Adapt to the constantly changing, interdisciplinary design and construction fields by applying teamwork and team building skills; and
• Apply appropriate construction practices including business organization, estimating, scheduling, project delivery and ethics.

Under the stimulus of increasing demand for global services, many Nebraska companies have expanded their reach well beyond U.S. borders. This demand gives the construction engineering graduate an unprecedented number of opportunities for employment (locally, nationally, and internationally), and for pursuing an advanced degree at UNL or elsewhere.

Construction engineers participate in the preparation of engineering and architectural documents, including specifications, which they translate into finished projects, such as buildings for housing, commerce and industry, highways, railroads, waterways, airports, power plants, energy distribution systems, military bases and space center complexes. These projects involve thousands of details shared by a team of owners, architects, engineers, general contractors, specialty contractors, manufacturers, material suppliers, equipment distributors, regulatory bodies and agencies, labor resources and others. The constructor assumes responsibility for delivery of the completed project at a specified time and cost and also accepts associated legal, financial and management obligations. Because of the broad scope of the construction engineer's project responsibility, he/she must assume the project's constructability as well as its capability to be operated and maintained.

Construction engineering students are required to enroll in a set of courses specifically designed for a general construction education. Each student selects, with the guidance of an advisor, a set of approved electives. The program outlined below leads to the bachelor of science degree in construction engineering.

College Requirements

College Admission

College Entrance Requirements
Students must have high school credit for (one unit is equal to one high school year):

1. 4 units of mathematics: 2 of algebra, 1 of geometry, 1 of precalculus and trigonometry.
2. 4 units of English.
3. 3 units of natural science that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management).
4. 2 units of a single foreign language.
5. 3 units of social studies.
6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) will be admitted to the College of Engineering even if they lack any one of the following: trigonometry, chemistry, or physics.
7. Students having an ACT score of 19 or less in English (or equivalent SAT score) must take ENGL 150 Writing and Inquiry or ENGL 151 Writing and Argument.

A total of 16 units is required for admission.

Students must have an ACT (enhanced) score of 24 or greater (or equivalent SAT). Students who lack entrance requirements may be admitted based on ACT scores, high school rank and credits, or may be admitted to pre-engineering status in the Exploratory and Pre-Professional Advising Center. Pre-engineering students are advised within the College of Engineering.

Students for whom English is not their language of nurture must meet the minimum English proficiency requirements of the University.

Students who lack entrance units may complete precollege training by Independent Study through the UNL Office of On-line and Distance Education, in summer courses, or as a part of their first or second semester course loads while in the Exploratory and Pre-Professional Advising Center or other Colleges at UNL.

Students should consult their advisor, their department chair, or Engineering Student Services if they have questions on current policies.

Other Admission Requirements
Students who transfer to the University of Nebraska–Lincoln from other accredited colleges or universities and wish to be admitted to the College of Engineering (COE) must meet COE freshman entrance requirements and have a minimum cumulative GPA of 2.5 for Nebraska residents or 3.0 for non-residents, and be calculus-ready. Students not meeting either of these requirements must enroll in the Explore Center or another UNL college until they meet COE admission requirements.

The COE accepts courses for transfer for which a C or better grade was received. Although UNL accepts D grades from the University of Nebraska at Kearney and at Omaha, not all majors in the COE accept such low grades. Students must conform to the requirements of their intended
major and, in any case, are strongly encouraged to repeat courses with a grade of C- or less.

All transfer students must adopt the curricular requirements of the undergraduate catalog current at the time of transfer to the COE—not that in use when they entered UNL. Upon admission to UNL, students wishing to pursue degree programs in the COE will be classified and subject to the policies defined in the subsequent section.

College Degree Requirements

Grade Rules

Grade Appeals

In the event of a dispute involving any college policies or grades, the student should appeal to his/her instructor, and appropriate department chair or school director (in that order). If a satisfactory solution is not achieved, the student may appeal his/her case through the College Academic Appeals Committee on his/her campus.

Catalog Rule

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted at UNL. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Engineering. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Learning Outcomes

Majors in construction engineering will be able to:

1. Professional Achievement: The ConE program prepares graduates to become Licensed Professional Engineers and Certified Professional Constructors.
2. Career Achievement: The ConE program prepares graduates to contribute to society by working in an occupation related to the architecture-engineering-construction industry.

Major Requirements

Requirements for the Degree (City campus)

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 109</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>COMM 286</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>CONE 103</td>
<td>Introduction to Construction Engineering</td>
<td>1</td>
</tr>
<tr>
<td>CSCE 155N</td>
<td>Computer Science I: Engineering and Science Focus</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 10</td>
<td>Freshman Engineering Seminar</td>
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<tr>
<td>MATH 106</td>
<td>Calculus I</td>
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Credit Hours Subtotal: 16

Second Semester

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<tbody>
<tr>
<td>MATH 107</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>General Physics Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CNST 225</td>
<td>Introduction to Building Information Modeling (BIM)</td>
<td>3</td>
</tr>
<tr>
<td>ACE Elective</td>
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Credit Hours Subtotal: 16

Third Semester

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<thead>
<tr>
<th>Course</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>CIVE 221</td>
<td>Geometric Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>CONE 221</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 20</td>
<td>Sophomore Engineering Seminar</td>
<td>0</td>
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<tr>
<td>MATH 208</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MECH 223</td>
<td>Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>JGEN 200</td>
<td>Technical Communication I</td>
<td>3</td>
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Credit Hours Subtotal: 17

Fourth Semester

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CONE 211</td>
<td>Construction Business Methods</td>
<td>3</td>
</tr>
<tr>
<td>BSEN 206</td>
<td>Engineering Economics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MECH 325</td>
<td>Mechanics of Elastic Bodies</td>
<td>3</td>
</tr>
<tr>
<td>MECH 373</td>
<td>Engineering Dynamics</td>
<td>3</td>
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Credit Hours Subtotal: 15

Fifth Semester

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ECEN 211</td>
<td>Elements of Electrical Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 341</td>
<td>Introduction to Structural Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CONE 319</td>
<td>Construction Methods and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CONE 378</td>
<td>Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CNST 378</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH 310</td>
<td>Fluid Mechanics</td>
<td>3</td>
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<tr>
<td>CIVE 310</td>
<td></td>
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Credit Hours Subtotal: 16

Sixth Semester

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<thead>
<tr>
<th>Course</th>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 334</td>
<td>Introduction to Geotechnical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 378</td>
<td>Materials of Construction</td>
<td>3</td>
</tr>
<tr>
<td>ECON 212</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACE Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 380</td>
<td>Statistics and Applications</td>
<td>3</td>
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<tr>
<td>STAT 380</td>
<td>or MECH 321 Engineering Statistics and Data Analysis</td>
<td>3</td>
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</table>

Credit Hours Subtotal: 16

Seventh Semester

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<thead>
<tr>
<th>Course</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>CIVE 440</td>
<td>Reinforced Concrete Design I</td>
<td>3</td>
</tr>
<tr>
<td>CONE 414</td>
<td>Accident Prevention in Construction</td>
<td>3</td>
</tr>
<tr>
<td>or CNST 444</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONE 476</td>
<td>Project Budgets and Controls</td>
<td>3</td>
</tr>
<tr>
<td>CNST 476</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONE 485</td>
<td>Construction Planning, Scheduling, and</td>
<td>3</td>
</tr>
<tr>
<td>CNST 485</td>
<td>Controls</td>
<td>3</td>
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<tr>
<td>Technical Elective</td>
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Credit Hours Subtotal: 15

Eighth Semester

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CONE 441</td>
<td>Steel Design I</td>
<td>3</td>
</tr>
<tr>
<td>CONE 489</td>
<td>Construction Engineering Capstone Course</td>
<td>3</td>
</tr>
<tr>
<td>BLAW 371</td>
<td>Legal Environment</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td></td>
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</table>

Credit Hours Subtotal: 15


ACE Elective
Choose one course from not yet satisfied ACE outcomes 5, 7, or 9 3
Credit Hours Subtotal: 15
Total Credit Hours 125

Additional Major Requirements

Grade Rules
C- and D Grades
All course work must be of C grade level or higher to be credited toward graduation requirements or to be valid as a prerequisite for another course.

Electives
Students are required to enroll in a predetermined set of courses specifically designed for general construction education. Each student selects, with the approval of his/her advisor, a set of approved electives.

Technical electives are selected from the following list. One (3 credit hour) of the required two electives needs to be considered a design technical elective.

Design Technical Electives
CONE 416 Wood and / or Contemporary Materials Design 3
CONE 417 Formwork Systems 3
CONE 481 Highway and Bridge Construction 3
CONE 483 Support of Excavation 3
CIVE 443 Advanced Structural Analysis 3
CIVE 444 Structural Design and Planning 3
CIVE 446 Steel Design II 3
CIVE 447 Reinforced Concrete Design II 3

Technical Electives
All previously listed Design Technical Electives
CNST 379 Construction Estimating II 3
CNST 434 The Design/Build Project Delivery System 3
CONE 450 Sustainable Construction 3
CONE 466 Heavy and/or Civil Estimating 3
CONE 498 Special Projects 1-6
MECH 420 Heat Transfer 3

ACE Requirements
The CONE program follows the UNL ACE general education requirements. Because of the specific needs of the program, several of these courses are specified in the curriculum. Please contact Melissa Hoffman at melissa.hoffman@unl.edu or 402-554-4482, if you are interested in more information about this program.

CONE 103 Introduction to Construction Engineering
Description: Introduction to the organization and terminology of construction engineering. Overview of technical and management skills required to succeed in the construction engineering profession.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LEC

CONE 206 Engineering Economics
Crosslisted with: BSEN 206
Prerequisites: Sophomore standing
Description: Introduction to methods of economic comparisons of engineering alternatives: time value of money, depreciation, taxes, concepts of accounting, activity-based costing, ethical principles, civics and stewardship, and their importance to society.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: MECH 343
ACE: ACE 8 Civic/Ethics/Stewardship

CONE 211 Construction Business Methods
Prerequisites: CONE 103.
Description: Business concepts and practices used by construction contractors. The construction industry, management principles, forms of business ownership, company organization, construction contracts, estimating and bidding, business ethics, bonds and insurance, financial statements, cost accounting, equipment management, planning and scheduling, labor relations and personnel management.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

CONE 221 Geometric Control Systems
Crosslisted with: CIVE 221
Prerequisites: MATH 106/106B/108H
Description: Introduction to the theory and application of mensuration and geometric information processing in civil engineering. Measurement of distance, direction, elevation, and location using mechanical, electronic, and satellite systems. Collection of field data and error propagation. Elementary geometric data bases for design, construction, operation, and control of civil works.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: CIVE 361

CONE 319 Construction Methods and Equipment
Prerequisites: (UNO) ISMG 2060
Description: Characteristics, capabilities, and selection of equipment and methods used in the building construction industry. Estimating job production, equipment production rates, machine operating costs, earth-moving equipment, hoisting equipment, operations analysis, and use of various other construction and methods and equipment.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
### CONE 378 Construction Estimating
**Crosslisted with:** CNST 378  
**Prerequisites:** CNST 242 or (UNO) CONE 2420.  
**Description:** Preparation of detailed cost estimates based on contract documents. Identify and analyze cost components to perform a reliable quantity take-off. Recap components in their common trade areas for labor, material, and equipment pricing. Introduction to subcontractor bids and assembly of bid proposal.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC  
**Prerequisite for:** CNST 379; CNST 440

### CONE 416 Wood and / or Contemporary Materials Design
**Prerequisites:** Senior standing; CONE 211 and 319.  
**Description:** Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design. Masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and constructability analysis.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### CONE 417 Formwork Systems
**Crosslisted with:** CONE 817  
**Prerequisites:** CONE 416; parallel CIVE 441  
**Description:** Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design. Masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and constructability analysis.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### CONE 449 BIM I: Introduction to Building Information Modeling (BIM)
**Crosslisted with:** CONE 859  
**Prerequisites:** CONE 319, CONE 378, and CONE 485.  
**Description:** This course instructs CAD users on the effective use of Building Information Model (BIM) for integration of design, document preparation, and Construction Estimate. Topics include: model-based 3D design, file formats, interoperability, and MEP modeling.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### CONE 450 Sustainable Construction
**Crosslisted with:** CONE 850  
**Prerequisites:** Senior standing.  
**Description:** Sustainable construction and its application to the green building industry. LEED certification process, sustainable building site management, efficient waste water applications, optimizing energy performance, indoor environmental issues, performance measurement and/or verification, recycled content and certified renewable materials.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### CONE 456 Heavy and/or Civil Estimating
**Crosslisted with:** CONE 866  
**Prerequisites:** CONE 319, CONE 378, and CONE 485.  
**Description:** Estimating techniques and strategies for heavy and/or civil construction. Unit pricing, head and civil constructions takeoffs and estimating, equipment analysis, overhead cost and allocations, estimating software and government contracts.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### CONE 476 Project Budgets and Controls
**Crosslisted with:** CNST 476  
**Prerequisites:** Open to College of Engineering Students only.  
**Description:** The basic systems related to revenues and expenses associated with record keeping of construction contracts. Managerial accounting related to planning and control of construction projects.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### CONE 481 Highway and Bridge Construction
**Crosslisted with:** CONE 881  
**Prerequisites:** Senior standing; CONE/CNST 241.  
**Description:** The methods and equipment required in the construction of roads and bridges. Methods and equipment necessary for roads and bridges. Substructure and superstructures, precast and cast-in-place segments, and standard and specialized equipment.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC
CONE 482 Heavy and/or Civil Construction  
**Crosslisted with:** CNST 482, CNST 882, CONE 882  
**Prerequisites:** Senior or Graduate standing in ARCH, AREN, CIVE, CNST, or CONE.  
**Description:** Application of management principles to the construction of heavy and/or civil projects. History, theory, and methods of planning and constructing heavy and/or civil projects. Emerging equipment and new equipment capabilities. Economical use of equipment and managing costs associated with production.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Format: LEC

CONE 483 Support of Excavation  
**Crosslisted with:** CONE 883  
**Prerequisites:** Senior standing.  
**Description:** The design and placement of excavation supports according to OSHA requirements and industry standards. A variety of routine to moderately complex support systems. Open excavations, heet piling and cofferdams, soil mechanics, lateral loads, hydrology, and pumping methods.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Format: LEC

CONE 485 Construction Planning, Scheduling, and Controls  
**Crosslisted with:** CNST 485, CNST 885, CONE 885  
**Prerequisites:** CNST 378; CNST 2250 (UNO)  
**Description:** Planning and scheduling a construction project using the critical path methods (CPM) with computer applications. Project pre-planning, logic networks, network construction, time estimates, critical path, float time, crash programs, scheduling, and monitoring project activities.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Format: LEC  
**Prerequisite for:** CNST 489

CONE 489 Construction Engineering Capstone Course  
**Prerequisites:** Senior standing.  
**Notes:** CONE 489 is to be taken in the term preceding graduation. CONE 489 embodies the cumulative CONE experience in a project format and uses teams to simulate actual construction enterprises operating in cooperative and competitive situations which replicate the construction industry.  
**Description:** An integrated, comprehensive project.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Format: LEC  
**Prerequisite for:** CNST 498

16 HR TERM 1

ACE 3/4 Math/Science  
**complete** CHEM 109, MATH 106  
9hr  
**C**

MATH 106 becomes critical to your success in the major if not completed by the end of the first term of enrollment.

ACE 2 Oral Comm  
**complete** COMM 286  
3hr

Construction Engineering  
**complete** CONE 103  
1hr  
**C**

CON 103 becomes critical to your success in the major if not completed by the end of the fifth term of enrollment.

Freshman Seminar  
**complete** ENGR10#  
0hr  
ENGR 10 becomes critical to your success in the major if not completed by the end of the first term.

Computer Skills Elective  
**complete** CSCE 155N  
3hr  
**C**

15 HR TERM 2

ACE 3/4 Math/Science  
**complete** MATH 107, PHYS 221
MATH 107 becomes critical to your success in the major if not completed by the end of second term of enrollment.

ACE 3/4 Add Math/Science
complete PHYS 211

PHYS 211 becomes critical to your success in the major if not completed by the end of the second term of enrollment.

ACE 5 Humanities
complete 1 from ACE5

Complete an ACE 5, 7, or 9 requirement this term.

17 HR TERM 3

Construction Sciences
complete CNST 225

Sophomore Seminar
complete ENGR20#

ACE1 Technical Comm
complete JGEN 200

ACE 3/4 Add Math/Science
complete MATH 208

MATH 208 becomes critical to your success in the major if not completed by the end of the third term of enrollment.

Construction Sciences
complete MECH 223

MECH 223 becomes critical to your success in the major if not completed by the end of the third term of enrollment.

ACE 3/4 Math/Science
complete PHYS 212

15 HR TERM 4

Construction Engineering
complete CONE 211

Business /ACE 6/8
complete CONE 206

CONE 211 becomes critical to your success in the major if not completed by the end of the sixth term of enrollment.

ACE 3/4 Add Math/Science
complete MATH 221

MATH 221 becomes critical to your success in the major if not completed by the end of the sixth term of enrollment.

Construction Sciences
complete MECH 325, MECH 373

MECH 325 becomes critical to your success in the major if not completed by the end of the fourth term of enrollment. MECH 373 becomes critical
to your success in the major if not completed by the end of the sixth term of enrollment.

16 HR TERM 5

Construction Sciences
complete CIVE 341

CIVE 341 becomes critical to your success in the major if not completed by the end of the fifth term of enrollment.

Construction Engineering
complete CONE 319, CONE 378

CONE 319 and 378 become critical to your success in the major if not completed by the end of the fifth term of enrollment.

15 HR TERM 6

Construction Sciences
complete CIVE 334, CIVE 378

ACE 3/4 Math/Science
complete MATH 380

Business /ACE 6/8
complete ECON 212

15 HR TERM 7

Construction Sciences
complete CIVE 440

CIVE 440 becomes critical to your success in the major if not completed by the end of the seventh term of enrollment.

Construction Engineering
complete CONE 414, CONE 476, CONE 485

Design Technical Elective
complete 1 from CIVE 443, CIVE 444, CIVE 446, CIVE 447, CONE 416, CONE 417, CONE 481, CONE 483

ACE 10 Capstone
complete CONE 489

CONE 489 becomes critical to your success in the major if not completed by the end of the eighth term of enrollment.

Business /ACE 6/8
complete BLAW 371
Design Technical Elective

complete 1 from CIVE 443, CIVE 444, CIVE 446, CIVE 447, CNST 379, CNST 434, CONE 416, CONE 417, CONE 450, CONE 466, CONE 483, CONE 498, MECH 420

3hr

ACE 9 Global/Human Divers

complete 1 from ACE9

3hr

Complete an ACE 5, 7, or 9 requirement this term.

Graduation Requirements

1. 125 hours required for graduation.
2. 2.40 GPA required for graduation.
3. 30 of the last 36 hours must be taken at UNL/UNO.

Career Information

The following represents a sample of the internships, jobs and graduate school programs that current students and recent graduates have reported.

Jobs of Recent Graduates

• Construction Engineer, Olsson Associates - Omaha NE
• Project Engineer, JE Dunn Construction - Denver CO
• Assistant Project Manager, Adolfson Peterson Construction - Aurora CO
• Project Engineer, Team Industrial - Omaha NE
• Project Engineer, Darland Construction Co. - Omaha NE
• Superintendent Apprentice, Eriksen Construction - Blair NE
• Field Engineer, Mortenson Construction - Minneapolis MN

Internships

• Intern, The Whiting-Turner Contracting Company - Boston MA
• Intern, The Department of Design and Construction - New York NY
• Project Management Intern, Cheever Construction Company - Lincoln NE
• Field Technician, Thiele Geotech Inc. - Omaha NE
• Field Engineer, Kiewit - Phoenix AZ
• Project Engineer, DPR Construction - Omaha NE
• Estimating Intern, Haselden Construction - Denver CO
• Project Intern, Lueder Construction - Omaha NE
• Construction Engineering Intern, Kiewit Building Group - Austin TX
• Controller, Kiewit Building Group - Omaha NE