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 the Engineering Accreditation Commission (EAC) of ABET, Inc.

Program Educational Objectives (PEOs)
1. Professional Achievement: The Construction Engineering program prepares graduates to become Licensed Professional Engineers and Certified Professional Constructors.
2. Career Achievement: The Construction Engineering program prepares graduates to contribute to society by working in an occupation related to the architecture-engineering-construction industry.

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 the University of Nebraska—Lincoln 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 constructors, specialty constructors, 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, they must assure 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. Mathematics – 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English – 4 units
3. Natural sciences – 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management)
4. Foreign language – 2 units of a single foreign language
5. Social studies – 3 units
6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) must 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 Exploratory and Pre-Professional Advising Center.

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 University of Nebraska–Lincoln 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 Nebraska.

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 and be calculus-ready. Students not meeting either of these requirements must enroll in the Explore Center or another University college until they meet COE admission requirements. Students transferring from UNO, UNL, or UNK to the College of Engineering must be in good academic standing with their institution.

The COE accepts courses for transfer for which a C or better grade was received. Although the University of Nebraska–Lincoln 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 the University of Nebraska—Lincoln. Upon admission to Nebraska, students wishing to pursue degree programs in the COE will be classified and subject to the policies defined in the subsequent section.

Students who were previously admitted to COE and are returning to the College of Engineering must demonstrate a cumulative GPA of 2.5 in order to be readmitted to COE.

**College Degree Requirements**

**Grade Rules**

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.

**Professional Admission Requirements**

In order to be professionally admitted into the construction engineering program, students must complete at least 43 credit hours of courses listed in the first two years of the required curriculum with a minimum GPA of 2.5 for those major courses (not necessarily the cumulative GPA).

**Learning Outcomes**

Graduates of the construction engineering program will have:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The above student outcomes have been approved by the ABET Engineering Area Delegation for use beginning with the 2019-20 academic year, and have been adopted by the faculty of the Charles W. Durham School of Architectural Engineering and Construction.

**Major Requirements**

**Requirements for the Degree (Lincoln Campus)**

<table>
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<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>First Semester</td>
<td>CHEM 109A</td>
<td>General Chemistry I</td>
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<td>&amp; CHEM 109L</td>
<td>General Chemistry I Laboratory</td>
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<td>COMM 286</td>
<td>Business and Professional Communication</td>
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<td>CONE 103</td>
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<td>JGEN 200</td>
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<td>MECH 223</td>
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<td>CIVE 341</td>
<td>Introduction to Structural Engineering</td>
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<td>CONE 319</td>
<td>Construction Methods and Equipment</td>
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<td>CONE 378 /</td>
<td>Construction Estimating I</td>
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<td></td>
<td>MECH 310 /</td>
<td>Fluid Mechanics</td>
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Credit Hours Subtotal: 16

Sixth Semester
CIVE 334 Introduction to Geotechnical Engineering 4
CIVE 378 Materials of Construction 3
ECON 212 Principles of Microeconomics 3
STAT 380 Statistics and Applications 3
or MECH 321 Engineering Statistics and Data Analysis 3

ACE Elective
Choose one course from not yet satisfied ACE outcomes 5, 7, or 9
Credit Hours Subtotal: 16

Seventh Semester
CIVE 440 Reinforced Concrete Design I 3
CONE 414 Accident Prevention in Construction 3
or CNST 444 Construction Site Safety Management 3
CONE 476 / CNST 476 Project Budgets and Controls 3
CONE 485 / CNST 485 Construction Planning, Scheduling, and Controls 3

Technical Elective
Credit Hours Subtotal: 3

Eighth Semester
CIVE 441 Steel Design I 3
CONE 489 Construction Engineering Capstone Course 3
CNST 420 Professional Practice and Ethics 3

Design Elective
Credit Hours Subtotal: 3

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

Total Credit Hours 125

Additional Major Requirements

Grade Rules
C- and D Grades
All coursework 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
All previously listed Design Electives

ACE Requirements
The CONE program follows the University’s 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
Grading Option: Graded
Prerequisite for: CONE 211

CONE 211 Construction Business Methods
Prerequisites: CONE 103 or CNST 131 or AREN 101
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
Grading Option: Graded with Option
Prerequisite for: CNST 476, CONE 476; CONE 319; MECH 446
ACE: ACE 8 Civic/Ethics/Stewardship

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
Grading Option: Graded with Option
Prerequisite for: CNST 476, CONE 476; CONE 319; MECH 446
ACE: ACE 8 Civic/Ethics/Stewardship

CONE 414 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
Grading Option: Graded
Prerequisite for: CONE 414
CONE 221 Geometric Control Systems  
Prerequisites: MATH 104 or MATH 106  
Description: Surveying fundamentals and theory related to construction, including building layout, measurement procedures, vertical control, and surveying instrument operation. Measurement of distance, direction, elevation, and location using mechanical and electronic systems. Explain the concepts of surveying and project layout as they apply to construction. Demonstrate the use of various surveying instruments, equipment, technologies, and control on construction project examples.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded

CONE 319 Construction Methods and Equipment  
Prerequisites: CONE 206  
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 methods and equipment.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded with Option  
Prerequisite for: CONE 414

CONE 378 Construction Estimating I  
Crosslisted with: CNST 378  
Prerequisites: CNST 112  
Description: Preparation of detailed cost estimates based on contract documents. Identify and analyze cost components of building and site scopes of work to perform detailed quantity take-offs. Apply labor, material, and equipment pricing from RS Means. Use production rates and quantity takeoffs to prepare a preliminary construction schedule. Complete quantity takeoffs from 2D plans and from 3D BIM software models.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded with Option  
Prerequisite for: CNST 379; CNST 440; CNST 476, CONE 476

CONE 414 Accident Prevention in Construction  
Prerequisites: Senior standing; CONE 211 and 319.  
Description: Safety practices in the construction industry and the national safety and health standards of the Occupational Safety and Health Administration (OSHA). The theory of accidents; personal attitudes; statistics and environment; accident occurrence; prevention and inspection in connection with the construction of buildings, highways, and associated heavy facilities. Nationally accepted safety codes and their relationship to accept practices in the industry.  
Credit Hours: 3  
Max credits per semester: 3  
Max credits per degree: 3  
Grading Option: Graded

CONE 416 Wood and / or Contemporary Materials Design  
Crosslisted with: CONE 816  
Prerequisites: CIVE 341  
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  
Grading Option: Graded

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  
Grading Option: Graded with Option

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  
Grading Option: Graded

CONE 459 BIM I: Introduction to Building Information Modeling (BIM)  
Crosslisted with: CONE 859  
Prerequisites: CNST 112 Construction, or Graduate standing in AREN, CIVE, CNST, or CONE.  
Description: This course instructs CAD users on the effective use of Building Information Model (BIM) for Integration of design, document 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  
Grading Option: Graded with Option
CONE 466 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
Grading Option: Graded

CONE 476 Project Budgets and Controls
Crosslisted with: CNST 476
Prerequisites: CNST 378, and BSEN 206 or FINA 300
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
Grading Option: Graded

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
Grading Option: Graded

CONE 482 Heavy and/or Civil Construction
Crosslisted with: CNST 482, CNST 882, CONE 882
Prerequisites: CNST 379
Notes: Not open to non-degree graduate students
Description: History, theory, methods, and management principles of
planning and executing heavy and/or civil projects. Emerging and new
equipment capabilities. Economical use of equipment and management
of costs associated with production.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded

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
Grading Option: Graded

CONE 485 Construction Planning, Scheduling, and Controls
Crosslisted with: CNST 485, CNST 885, CONE 885
Prerequisites: CNST 378
Notes: Not open to non-degree graduate students
Description: Planning and scheduling a project using the critical path
methods (CPM) with computer applications. Project pre-planning, logic
networks, precedence diagrams, time estimates, critical path, float time,
crash programs, scheduling, short interval schedules, pull planning, and
monitoring project activities.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
Prerequisite for: CNST 489

CONE 489 Construction Engineering Capstone Course
Prerequisites: Senior standing.
Notes: To be taken in the term preceding graduation. 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
Grading Option: Graded
ACE: ACE 10 Integrated Product

CONE 495 Internship
Crosslisted with: CNST 495
Prerequisites: Permission of instructor, Letter of application, Letter of
agreement from industry mentor
Notes: Not open to non-degree graduate students
Description: Participation in a full-time summer internship associated
with a construction-related entity. Includes weekly assignments and a
final presentation designed to foster interactions between the intern and
the business side of the entity. General topics include personnel and time
management, structuring business plans, scheduling work, finance and
budgets, marketing plans, contracts, risk analysis, and communication
and leadership.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Grading Option: Graded
Offered: SUMMER

CONE 498 Special Projects
Prerequisites: Permission.
Description: Individual research on a selected technical, structural,
materials or management problem in construction.
Credit Hours: 1-6
Min credits per semester: 1
Max credits per semester: 6
Max credits per degree: 6
Grading Option: Graded

PLEASE NOTE
This document represents a sample 4-year plan for degree completion
with this major. Actual course selection and sequence may vary and
should be discussed individually with your college or department
academic advisor. Advisors also can help you plan other experiences
to enrich your undergraduate education such as internships, education
Construction Engineering abroad, undergraduate research, learning communities, and service learning and community-based learning.

**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
- Project Engineer, DPR Construction - Sacramento CA
- Engineer, Kiewit Building Group - Omaha NE
- Project Engineer, The Waldinger Corporation - Omaha NE
- Project Engineer, Howard S. Wright - Portland OR
- Special Inspections Technician, Olsson Associates - Omaha NE
- Superintendent-in-Training, J.E. Dunn Construction Company - Omaha NE
- Estimator, Sampson Construction - Lincoln NE

**Internships**

- Field Technician, Thiele Geotech Inc. - Omaha NE
- Intern, The Whiting-Turner Contracting Company - Boston MA
- Project Management Intern, Cheever Construction Company - Lincoln NE
- Intern, The Department of Design and Construction - New York NY
- 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
- Intern, The Whiting-Turner Contracting Company - Council Bluffs IA
- Field Engineer Intern, Kiewit Southwest - Phoenix AZ
- Intern, Thomas David Builders - Omaha NE
- Field Inspector Intern, Alfred Benesch & Company - Lincoln NE
- Construction Engineering Co-op, The Village at Breckenridge Homeowners Assoc - Breckenridge CO
- Field Engineer, Kiewit - Corpus Christi TX
- Field Engineer, Kiewit Southwest District - Phoenix AZ
- Office Engineer Intern, Kiewit Building Group - Omaha NE
- Intern, Dream Home Drafting - Omaha NE
- Intern, Olsson Associates - La Vista NE
- Estimating Intern, Kiewit Engineering Company - Omaha NE
- Intern, Lamp Rynearson Associates - Omaha NE
- Project Controls Intern, Kiewit Building Group Inc. - Omaha NE
- Intern, Olsson Associates - La Vista NE