

# Master of Engineering in Civil Engineering

## Admission Requirements

1. Minimum general admission requirements in the Admission section of the graduate catalog.
2. A baccalaureate degree in civil engineering or related field(s).
3. Graduate Record Examination scores on the General Test will be optional.
4. A cumulative Grade Point Average (GPA) of at least 2.75 for all undergraduate work or a GPA of at least 3.0 for the junior and senior years of undergraduate work (based on A = 4.00).
5. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.

## Degree Requirements

Students seeking the Master of Engineering degree at the University of North Dakota must satisfy all general requirements set forth by the School of Graduate Studies as well as particular requirements set forth by the Civil Engineering Department.

1. A minimum of 30-semester credits in a major option, including the credits granted for the design project and the research leading to the design project. All credits must be pre-approved by the advisor.
2. At least one-half of the credits must be at or above the 500-level.
3. A minimum of 15-credit hours of coursework.
4. A maximum of one-fourth of the credit hours required for the degree may be transferred from another institution.
5. Preparation of a written design project approved by the faculty advisor.
6. Required Courses:

7. Code	Title	Credits
<b>Environmental Option</b>		
CE 536	Environmental Chemistry	3
CE 537	Unit Operations in Water and Wastewater Treatment	3
CHE 504	Air Pollution Control	3
CE 595	Design Project	6
Electives		15
<b>Structures Option</b>		
CE 502	Structural Stability	3
CE 503	Structural Dynamics	3
CE 555	Prestressed Concrete-Analysis and Design	3
or CE 557	Advanced Steel Design	
CE 595	Design Project	6
Electives		15
<b>Transportation Option</b>		
CE 517	Transportation Asset Management	3
CE 518	Pavement Engineering	3
CE 519	Sustainable Pavements	3
CE 595	Design Project	6
Elective		15
<b>Water Resources Option</b>		
CE 526	Applied Hydraulics	3
CE 524	Open Channel Hydraulics	3
CE 525	Surface Hydrology	3
or GEOE 417	Hydrogeology	
CE 595	Design Project	6
Electives		15

### General Civil Engineering Option

CE 517	Transportation Asset Management	3
or CE 518	Pavement Engineering	
or CE 519	Sustainable Pavements	
CE 502	Structural Stability	3
or CE 503	Structural Dynamics	
CE 526	Applied Hydraulics	3
or CE 524	Open Channel Hydraulics	
or CE 525	Surface Hydrology	
CE 536	Environmental Chemistry	3
or CE 537	Unit Operations in Water and Wastewater Treatment	
CE 595	Design Project	6
Electives		12

## Combined Accelerated Degree Program (BS/ MEng) in Civil Engineering

To encourage undergraduate engineering students to extend their studies to include a graduate degree, the civil engineering department College of Engineering and Mines has a combined program that permits students to earn both a bachelor's and master's degree. This program allows students to designate two three-credit graduate courses to count for both degrees. The selected courses must have graduate course standing and be designated when a student requests admission to the program.

Students may be admitted to the Civil Engineering Combined Degree program after the completion of 60 credit hours toward the bachelor's degree with a GPA of at least 3.3 and before completion of the bachelor's degree.