Environmental Engineering
Master of Science
Master of Engineering

The School of Engineering and Mines Environmental Engineering graduate program combines those aspects of Chemical, Civil, and Geological Engineering most applicable to environmentally related problems. This program is, to our best knowledge, unique in the combination of these three disciplines for the training of graduate students in environmental engineering. The program emphasizes a multidisciplinary approach to Environmental Engineering and includes the mitigation of environmental impacts from gaseous, liquid, and solid-phase emission sources. The program is oriented primarily towards a Master of Science (M.S.) degree. A research project, culminating in a master’s thesis is a major part of this program. We also offer a non-thesis M.S. degree solution. The average time for completion of the M.S. degree is 18 months. A Master’s of Engineering (M.Engr.) degree is also available. For this degree, a design-oriented project is completed in lieu of the Master’s Thesis. Special certificate programs are also offered in various concentrations and will consist of a group of three courses. The availability of a concentration will be published on the program web site, together with the schedule of courses offered, and the manner of delivery.

Admission Requirements
1. Bachelor of Science degree from an ABET accredited engineering program in Environmental, Chemical, Civil, or Geological Engineering.
2. Students holding a B.S. degree in other engineering disciplines or in a science field may be admitted to Qualified Status with an obligation to acquire background undergraduate engineering knowledge. The exact requirements will be determined on a case-by-case basis.
3. An overall undergraduate GPA of at least 2.75, or 3.00 for the last two years.
4. Graduate Record Examination General Test for applicants from non-ABET accredited programs.
5. A minimum TOEFL Score of 550 on the paper-based test or 213 on the computer-based test, or for the Internet based TOEFL, a composite score of 79, with minimum scores of 21/30 (Speaking*); 19/30 (Listening); 19/30 (Reading); and 17/30 (Writing) for applicants whose native language is not English. Applicants may also meet language requirements by presenting IETLS scores of 6.5. *Applicants being considered for Graduate Teaching Assistantships must achieve these minimum TOEFL scores, but have a minimum score of 26/30 on the Speaking subtest.
6. Students who have received a bachelor’s degree or higher from the United States or English-speaking Canada are not required to submit the TOEFL.

Degree Requirements
Students seeking the Master of Science degree at the University of North Dakota must satisfy all general requirements set forth by the Graduate School as well as particular requirements set forth by the Environmental Engineering Program.
1. A minimum of 30 semester credits in a major field, including the credits granted for the thesis and the research leading to the thesis.
2. At least one-half of the credits must be at or above the 500- level.
3. A maximum of eight semester credits may be transferred from another institution.
4. Required Courses:
   - EnvE – 562 ............ 2cr (1 credit per semester)
   - EnvE – 591 ............ 3cr
   - A minimum of 3 credits from the following:
     - ChE – 501 ............. 3cr
     - ChE – 504 ............. 3cr
ChE – 512 ............... 3cr
A minimum of 3 credits from the following:
CIEN – 531 .......... 3cr
CIEN – 532 .......... 3cr
CIEN – 535 .......... 3cr
A minimum of 3 credits from the following: (For the M.S. degree)
GeoE – 417 .......... 3cr
Geol – 540 .......... 3cr
Thesis – EnvE – 998 .... 4cr
Electives ..................... 12cr
OR
A minimum of 3 credits from the following: (For the M.Eng. degree)
GeoE 417 ...................... 3 cr
Geol 540 ........................ 3 cr
Electives ..................... 14-17 cr
Total 30cr

5. For the M.S., a thesis documenting research conducted on a problem(s) related to Environmental Engineering is required. For the M.Eng. a written report documenting work on a successfully completed environmental engineering design project.

Faculty
Faculty from the three sponsoring departments within the School of Engineering and Mines (Chemical Engineering, Civil Engineering, and Geological Engineering) are involved in the teaching and research activities for the Environmental Engineering Graduate Program.

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