

# Environmental Engineering

---

## Department Information

- **Department Location:**  
Civil & Industrial Engineering 201
- **Department Phone:**  
701-231-7244
- **Department Web Site:**  
[www.ndsu.edu/ce/](http://www.ndsu.edu/ce/)
- **Credential Offered:**  
B.S.Env.E.
- **Plan Of Study Sample:**  
[bulletin.ndsu.edu/programs-study/undergraduate/environmental-engineering/#planofstudytext](http://bulletin.ndsu.edu/programs-study/undergraduate/environmental-engineering/#planofstudytext)

## Major Requirements

### Major: Environmental Engineering

Degree Type: B.S.Env.E.

Minimum Credits Required for Degree: 132

### University Degree Requirements

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
  - a. Of these 60, at least 36 must be NDSU resident credits as defined in #7.
  - b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
7. At least 36 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (<http://bulletin.ndsu.edu/past-bulletin-archive/2020-21/academic-policies/undergraduate-policies/degree-and-graduation>) section of this Bulletin.

### University General Education Requirements

Code	Title	Credits
<b>Communication (C)</b>		12
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing <sup>†</sup>		
<b>Quantitative Reasoning (R) <sup>†</sup></b>		3
<b>Science and Technology (S) <sup>†</sup></b>		10
<b>Humanities and Fine Arts (A) <sup>†</sup></b>		6
<b>Social and Behavioral Sciences (B) <sup>†</sup></b>		6
<b>Wellness (W) <sup>†</sup></b>		2
<b>Cultural Diversity (D) <sup>*†</sup></b>		
<b>Global Perspectives (G) <sup>*†</sup></b>		
Total Credits		39

\* May be satisfied by completing courses in another General Education category.

† General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

- A list of university approved general education courses and administrative policies are available here (<http://bulletin.ndsu.edu/past-bulletin-archive/2020-21/academic-policies/undergraduate-policies/general-education/#genedcoursestext>).

## Environmental Engineering Requirements

Code	Title	Credits
CHEM 121	General Chemistry I (Gen Ed Category S)	3
CHEM 121L	General Chemistry I Laboratory (Gen Ed Category S/Lab)	1
CHEM 122	General Chemistry II (Gen Ed Category S)	3
CHEM 122L	General Chemistry II Laboratory (Gen Ed Category S/Lab)	1
CHEM 240	Survey of Organic Chemistry	3
CE 212	Civil Engineering Graphic Communications	3
CE 309	Fluid Mechanics	3
CE 310	Fluid Mechanics Laboratory	1
CE 316	Soil Mechanics	3
ENGL 321	Writing in the Technical Professions (Gen Ed Category C)	3
ENGR 402	Engineering Ethics and Social Responsibility	1
ENGR 311	History of Technology in America (Gen Ed Category A)	3
ENGR 312	Impact of Technology on Society (Gen Ed Category B)	3
ENVE 111		1
ENVE 211		1
ENVE 250		3
ENVE 350		3
ENVE 360		3
ENVE 370		3
ENVE 408		3
ENVE 410		3
ENVE 412		2
ENVE 450		1
ENVE 460		3
ENVE 472		3
ENVE 473		3
ENVE 477		3
ENVE 488		2
ENVE 489		2
GEOG 105	Fundamentals of Geographic Information Systems (Gen Ed Category S & G)	3
IME 440	Engineering Economy	2
IME 460	Evaluation of Engineering Data	3
MATH 165	Calculus I (Gen Ed Category R) *	4
MATH 166	Calculus II *	4
MATH 259	Multivariate Calculus *	3
MATH 266	Introduction to Differential Equations *	3
ME 221	Engineering Mechanics I *	3
ME 222	Engineering Mechanics II *	3
ME 223	Mechanics of Materials *	3
PHYS 252	University Physics II	4
<b>Technical Electives</b>		<b>9</b>
Total Credits		114

\* No grades less than a "C" are accepted in any of the math courses, as well as ME 221 Engineering Mechanics I, ME 222 Engineering Mechanics II, and ME 223 Mechanics of Materials for this curriculum.