ENVIRONMENTAL ENGINEERING, B.S.

Seven Penn State campuses are scheduled for closure after Spring 2027: DuBois, Fayette, New Kensington, Mont Alto, Shenango, Wilkes-Barre, and York. New students are not being admitted at these campuses.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Educational Objectives

- Use advanced mathematical, scientific, and engineering principles to identify, formulate, and solve complex environmental engineering problems within global, economic, environmental, and societal contexts.
- Use modern tools and techniques essential for professional environmental engineering practice, including laboratory and computational methodologies.
- Demonstrate teamwork and interdisciplinary collaboration skills necessary to successfully engage in environmental engineering projects.
- Explain ethical and professional responsibilities and will be prepared to address contemporary issues and regulatory requirements relevant to environmental engineering practice

Student Outcomes

Student outcomes describe what students are expected to know and be able to do by the time of graduation. The Environmental Engineering program is designed to enable students to:

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. 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. Communicate effectively with a range of audiences
4. 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. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.