## Mission/Vision Statement

The mission of the EEES Department is to provide the knowledge and skills that give our graduates a sound basis for professional practice and life-long learning. The Department’s vision is to deliver quality academic programs that inspire engineers and scientists to develop methods to effectively manage our environmental resources.

## Students/Customers

The Department serves undergraduate students pursuing a BS in Environmental Engineering or a BA or BS in Earth & Environmental Sciences.

## Program Objectives (PO)

**Graduates of the Environmental Engineering Program will have the ability to:**
- Apply knowledge of mathematics, science, and engineering to the analysis and design of environmental engineering systems.
- Design experiments, as well as to analyze and interpret data through laboratory and field exercises.
- Design a system, component, or process to meet desired needs.
- Function on multi-disciplinary teams and communicate effectively.

**Graduates of the Earth and Environmental Science Program will have the ability to:**
- Function on multi-disciplinary teams.
- Communicate effectively through oral presentations and written reports.
- Conduct experiments, and analyze and interpret data through laboratory and field exercises.

## Student Learning Objectives (SLO)

**Graduates of the Environmental Engineering Program will possess:**
- The ability to apply knowledge of mathematics, science and engineering to the analysis and design of environmental engineering systems.
- The ability to design and conduct experiments, as well as to analyze and interpret data through laboratory and field exercises.
- The ability to design a system, component, or process to meet desired needs.
- The ability to function on multi-disciplinary teams.
- The ability to identify, formulate, and solve environmental engineering problems.
- An understanding of professional and ethical responsibility as related to the practice of environmental engineering.
- The ability to communicate effectively through oral presentations and written reports.
- The broad education necessary to understand the impact of engineering solutions in a global and societal context.
- Recognition of the need for, and the ability to engage in, life-long learning.
- Knowledge of contemporary issues that impact the practice of environmental engineering.
- The ability to use techniques, skills, and modern engineering tools necessary for engineering practice.

**Graduates of the Earth and Environmental Science Program will demonstrate the ability to:**
- Function on multi-disciplinary teams.
- Communicate effectively through oral presentations and written reports.
- Conduct experiments, and analyze and interpret data through laboratory and field exercises.
Key Assessment Activities
- Individual Course Assessment
- The Fundamentals of Engineering Examination
- Alumni Survey
- Employer Survey
- Senior Exit Survey
- Capstone Project
- Pennsylvania Department of Education Form 430
- Field Experience Evaluation Forms

University Strategic Plan Goals (SPG)
1. Achieving excellence & growth in academic programs.
2. Developing a world-class support environment.
3. Valuing our people.

Institutional Student Learning Outcomes (ISLO)
Through coursework, learning experiences, co-curricular and extracurricular activities, students will develop and demonstrate:
1. Knowledge, skills, and scholarship appropriate to general and major field areas of study.
2. Effective written and oral communication skills and information literacy using an array of media and modalities.
3. Practical, critical, analytical, and quantitative reasoning skills.
4. Actions reflecting ethical reasoning, civic responsibility, environmental stewardship, and respect for diversity.
5. Interpersonal skills and knowledge of self as a learner that contribute to effective team work, mentoring, and life-long learning.

Strategic Alignment

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<tr>
<th>Graduates of the Environmental Engineering Program will possess:</th>
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<tbody>
<tr>
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**Classification of Instructional Program (CIP) Code:**  14.1401 (Environmental Engineering)  
40.0601 (Earth & Environmental Science)