Program Description

The environmental engineering BSE degree program educates tomorrow's engineers to solve complex environmental problems and design systems at the human, urban, and planetary scale. Environmental engineers are actively involved with:

- air quality monitoring and air pollution control technology
- analysis of fate and transport of pollutants
- application of sustainable design principles
- design of solid waste management systems
- design of hazardous waste containment systems
- design and operation of water and wastewater treatment systems
- remediation of contaminated soil, sediment, and water
- water quality, water conservation, and water reuse

In recognition of the interdisciplinary nature of environmental engineering challenges, the degree incorporates courses from other programs in the Fulton Schools of Engineering including chemical engineering and environmental resources management. Engineering courses build on strong foundation in chemistry, biology, geology, physics and mathematics. Courses cover fundamental engineering concepts applied to environmental processes and environmental engineering design, as well as applied learning experiences including required internship or research experience and capstone design course.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Tempe campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 265 - Calculus for Engineers I.
- **Math Intensity:** Substantial
Admission Requirements

General University Admission Requirements:

All students are required to meet general university admission requirements.

Additional Requirements:

Freshman Admission:

1. minimum 1210 SAT combined evidence-based reading and writing plus math score (or 1140 if taken prior to March 5, 2016) or minimum 24 ACT combined score or 3.00 minimum ABOR GPA or class ranking in top 25 percent of high school class, and
2. no high school math or science competency deficiencies

Transfer Admission Requirements

Transfer students with fewer than 24 transferable college credit hours:

1. minimum transfer GPA of 3.00 for less than 24 transfer hours, and
2. no high school math or science competency deficiencies, and
3. minimum 1210 SAT combined evidence-based reading and writing plus math score (or 1140 if taken prior to March 5, 2016) or minimum 24 ACT combined score, or 3.00 minimum ABOR GPA, or class ranking in top 25 percent of high school class

Transfer students with more than 24 transferable college credit hours:

Primary

1. minimum transfer GPA of 3.00 for 24 or more transfer hours, and
2. no high school math or science competency deficiencies (if Admissions Services requires submission of a high school transcript)

Secondary Criteria

1. minimum transfer GPA of 2.75 for 24 or more transfer hours, and
2. minimum GPA of 2.75 in all critical courses for Terms 1 and 2 (see major map for critical courses)

Change of Major Requirements

Current ASU students should refer to https://engineering.asu.edu/admission-requirements for the major change requirements for this program.

Global Opportunities

Global Experience

With over 250 programs in more than 65 countries (ranging from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. https://mystudyabroad.asu.edu/.

Career Opportunities

Graduates from the environmental engineering program have career opportunities in both the private and public sectors. The private sector consulting industry in environmental engineering is growing as greater environmental awareness and emerging novel pollutants require continual refinement of regulations and environmental system design standards. We seek to accredit the BSE in environmental engineering to allow graduates to pursue professional licensure that enables environmental engineers to design and build drinking water and wastewater treatment facilities, contaminated soil and water remediation systems, and hazardous
and solid waste confinement systems. In the public sector, municipalities and regulating agencies require a knowledgeable workforce to understand how public policy can improve human health and ecosystem services through environmental engineering processes.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Manager 🌱</td>
<td>5.5%</td>
<td>$137,720</td>
</tr>
<tr>
<td>Environmental Engineer 🌱</td>
<td>8.3%</td>
<td>$86,800</td>
</tr>
<tr>
<td>Fire Protection Engineer</td>
<td>8.6%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Industrial Safety Engineer 🌱</td>
<td>8.6%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Product Safety Engineer</td>
<td>8.6%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Water/Wastewater Engineer 🌱</td>
<td>8.3%</td>
<td>$86,800</td>
</tr>
</tbody>
</table>

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

🌞 Bright Outlook 🌿 Green Occupation

**Contact Information**

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