Environmental and Resource Management, BS

TSETMBS

Program Description

The BS program in environmental and resource management provides critical scientific and management skills for graduates who work in industry or government to ensure the health of natural ecosystems and mitigate the environmental impact of the industrial world.

The curriculum combines a strong foundation in biology, chemistry, physics and mathematics, with a solid grounding in environmental law and policy. Students learn to apply environmental technologies to drinking water and wastewater treatment, management of hazardous and solid wastes, and control of industrial and mobile sources of air pollution. They study OSHA regulations on health and safety, as well as strategies to protect workers in hazardous environments. International environmental issues and legal frameworks are included along with U.S. environmental laws.

Graduates with these skills are in high demand and can find work in industry, governmental management and regulatory agencies, or in policy-making organizations.

An accelerated BS/MS degree option is available in which up to nine credit hours of the bachelor’s degree may be applied toward the 33 hours required for the master's degree in environmental and resource management. A special application is required for this option.

This major is eligible for the Western Undergraduate Exchange program at the following location: Polytechnic campus. Students from Western states who select this major and campus may be eligible for reduced nonresident tuition at a rate of 150% of Arizona resident tuition plus all applicable fees. Students should click the link for more information and eligibility requirements of the WUE program.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Polytechnic campus
* Additional Program Fee: Yes
* Second Language Requirement: No
* First Required Math Course: MAT 210 - Brief Calculus
* Math Intensity: Moderate

**Required Courses (Major Map)**

2020 - 2021 Major Map
Major Map (Archives)

**Accelerated Program Options**

This program allows students to obtain both a bachelor’s and master’s degree in as little as five years. It is offered as an accelerated bachelor's and master's degree with:

- Environmental and Resource Management (Water Management), MS
- Environmental and Resource Management, MS
- Technology (Environmental Technology Management), MSTech

Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be advised by their academic departments to apply.

**Admission Requirements**

**General University Admission Requirements:**
All students are required to meet general university admission requirements.
Freshman | Transfer | International | Readmission

**Change of Major Requirements**

A current ASU student has no additional requirements for changing majors.

Students should refer to [https://changemajor.apps.asu.edu](https://changemajor.apps.asu.edu) for information about how to change a major to this program.

**Transfer Options**

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use [MyPath2ASU™](#) to outline a list of recommended courses to take prior to transfer.
ASU has transfer partnerships in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.

Global Opportunities

Global Experience
Study abroad programs in countries such as Japan, Sweden and Germany allow students to further their understanding of the impact the industrial world has on the environment. An open mind and international understanding of these concepts further students' studies and understanding of the various environmental conditions around the globe. 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 are firmly grounded in the scientific, technical and legal problems facing environmental managers in today's business climate. They are prepared to be environmental, health and safety professionals in industrial settings such as manufacturing, mining, oil and gas or environmental engineering consulting forms. They also assure compliance with OSHA and EPA requirements in laboratories at pharmaceutical companies, water treatment plants or academic labs. On the regulatory side, graduates work for agencies such as the U.S. Environmental Protection Agency or state and county departments of environmental quality.

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>Contamination Clean-up Manager ✔</td>
<td>8.0%</td>
<td>$105,610</td>
</tr>
<tr>
<td>Emergency Manager</td>
<td>7.7%</td>
<td>$72,760</td>
</tr>
<tr>
<td>Environmental Engineer ✔</td>
<td>8.3%</td>
<td>$86,800</td>
</tr>
<tr>
<td>Environmental Protection Specialist ✔⭐</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Health Sciences Manager ✔⭐</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Health and Safety Manager ✔</td>
<td>8.1%</td>
<td>$71,780</td>
</tr>
<tr>
<td>Health and Safety Technician ✔⭐</td>
<td>10.1%</td>
<td>$49,960</td>
</tr>
<tr>
<td>Industrial Safety Engineer ✔</td>
<td>8.6%</td>
<td>$88,510</td>
</tr>
</tbody>
</table>
Water/Wastewater Engineer 8.3% $86,800

* 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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