

# Hazardous Materials and Waste Management, Certificate

TSETMCERT

## Description

The certificate program in hazardous materials and waste management is designed to provide current and prospective employees of industry and government with a comprehensive and practical curriculum of study in hazardous materials management. The certificate program features instruction by faculty, attorneys and professionals who work in the specific area in which they teach.

Students enrolled in this certificate program are offered several industry-required courses by the Environmental and Resources Management professional development program targeted at environmental professionals who engage in management and transportation of hazardous materials and waste: the Occupational Safety and Health Administration-mandated 40-hour Hazardous Waste Operations and Emergency Response course; the 16-hour initial Hazardous Materials Transportation Certification course; and their corresponding eight-hour refresher courses. These training courses are provided to certificate students at less than 15% of the actual cost to support their professional development.

## At a glance

- **College/School:** [Ira A. Fulton Schools of Engineering](#)
- **Location:** [Polytechnic](#)

## Program requirements

[2024 - 2025 Certificate Map](#)

[Certificate Map \(Archives\)](#)

The certificate in hazardous materials and waste management requires 18 credit hours. Students must complete six selected courses (four required and two electives) and earn a grade of "C" (2.00 on a scale of 4.00) or higher to receive the certificate.

## **Core Courses -- 12 credit hours**

ERM 203: Environmental Regulations (3)

ERM 401: Hazardous Waste Management (3)

ERM 406: Environmental Chemistry (3)

ERM 407: Occupational Hygiene (3)

## **Elective Courses -- 6 credit hours**

ERM 3\*\* Elective or ERM 4\*\* Elective ( ERM 402 OR ERM 432 recommended) (6)

Please note - ERM 402 has a prerequisite of ERM 302.

Prerequisite courses may be needed in order to complete the requirements of this certificate.

## **Enrollment requirements**

The certificate in hazardous materials and waste management is available to all ASU students in good standing, except those pursuing any program in environmental and resource management.

To add the certificate in hazardous materials and waste management, a student must hold, at minimum, junior status and have a minimum cumulative GPA of 2.00.

A student pursuing an undergraduate certificate must be enrolled as a degree-seeking student at ASU. Undergraduate certificates are not awarded prior to the award of an undergraduate degree. A student already holding an undergraduate degree may pursue an undergraduate certificate as a nondegree-seeking graduate student.

## **Program learning outcomes**

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Evaluate environmental policies and regulations that apply to environmental and resource management.
- Apply management, scientific, and technical solutions to natural and anthropogenic environmental problems.

## **Career opportunities**

Graduates with the skills gained in this certificate program are in high demand and can find work in industry, governmental management and regulatory agencies or in policymaking organizations.

Graduates are firmly grounded in the scientific, technical and legal problems facing hazardous waste managers in today's business climate. They are prepared to be waste, health and safety professionals in

industrial settings such as manufacturing, mining, oil and gas, or environmental engineering consulting firms. They also ensure compliance with OSHA and U.S. Environmental Protection Agency requirements in manufacturing operations, water and wastewater treatment facilities, or local governments. On the regulatory side, graduates work for agencies such as the EPA or state and county departments of environmental quality.

## Contact information

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