

Environmental and Resource Management, MS

ESERMMS

Program description

Degree awarded: MS Environmental and Resource Management

The MS program in environmental and resource management provides students with the regulatory and technical background needed to mitigate the environmental impact of industrial sources of pollution, ensure compliance with environmental regulations, and manage and preserve engineered and natural ecosystems. The program is designed for students with a background in the sciences, engineering, management, natural resources management, environmental health and safety, or other affiliated areas.

The curriculum focuses on areas such as environmental law, water and wastewater treatment, air pollution management, solid and hazardous waste management, management of hazardous materials, soils and groundwater contamination, water law and policy, environmental toxicology, hazardous waste management, natural resources management, occupational health and safety, sustainable development, and international environmental laws and policies.

At a glance

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

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 plus master's degree](#) with:

[Business \(Agribusiness Innovation and Technology\), BA](#)

[Environmental Science, BA](#)

Environmental Science, BS

Environmental and Resource Management, BS

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and [how to apply](#).

Degree requirements

30 credit hours and a portfolio, or

30 credit hours and a thesis, or

30 credit hours and a written comprehensive exam, or

30 credit hours including the required applied project course (ERM 593)

Required Core (6 credit hours)

ERM 502 Regulatory Framework for Toxic and Hazardous Substances (3) or ERM 527 Environmental and Resources Regulations Concepts (3)

ERM 503 Principles of Toxicology (3) **or** ERM 506 Chemistry of Hazardous Materials (3)

Track Courses (9 credit hours)

Electives or Research (9--15 credit hours)

Culminating Experience (0--6 credit hours)

ERM 593 Applied Project (3)

ERM 599 Thesis (6)

portfolio (0)

written comprehensive exam (0)

Additional Curriculum Information

Students select either the environmental management track or the international environmental management track.

Students choose one of the culminating experiences listed above. Thesis students take nine credit hours of electives or research; applied project students take 12 credit hours of electives or research; and portfolio and written comprehensive exam students take 15 credit hours of electives or research.

Students should see the academic unit for a complete list of approved electives and track courses.

Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree from a regionally accredited institution in one of the following fields: environmental engineering, environmental and resource management, biology, chemistry, geology, environmental health, environmental management, environmental science, occupational safety and health, environmental technology, industrial hygiene, natural resource management or a related field.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in their first bachelor's degree program or in the last 60 hours of their first bachelor's degree program; a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in nine semester hours of graduate coursework from a U.S. institution; or a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable conferred master's degree program from a regionally accredited college or university.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. personal statement
4. professional resume
5. two letters of recommendation
6. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of English proficiency regardless of their current residency. Applicants should see the [Graduate Admission Services website](#).

[Global Launch](#) at ASU offers an online alternative to standardized testing for international students who are seeking admission to ASU and need proof of English proficiency.

If the applicant does not meet the minimum GPA requirements, the application may still be considered. In certain cases, demonstrated aptitude through professional experience or additional postbaccalaureate education is considered.

Unofficial transcripts may be submitted at the time of application. If admitted, applicants must then submit official transcripts to ASU Graduate Admission Services.

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Application deadlines

Fall

Spring [expand](#)

[expand](#)

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:

- Apply sustainable development practices and trends to environmental systems
- Apply legal principles and concepts as described in environmental laws and regulations in order to manage engineered, industrial and natural ecosystems systems
- Apply management, scientific and technical solutions to natural and anthropogenic environmental problems

Career opportunities

Graduates are employed by industrial operations such as manufacturing and mining industries; federal, state and local environmental and water agencies; environmental firms; utilities; nongovernmental organizations; and international agencies such as the United Nations and the World Bank.

Professional licensure

ASU programs that may lead to professional licensure or certification are intended to prepare students for potential licensure or certification in Arizona. Completion of an ASU program may not meet educational requirements for licensure or certification in another state. For more information, students should visit the [ASU professional licensure](#) webpage.

Students should note that not all programs within the Ira A. Fulton Schools of Engineering lead to professional licensure.

Contact information

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