Environmental and Resource Management, MS

Program Description

Degree Awarded: MS Environmental and Resource Management

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

The curriculum focuses on areas such as environmental law, air pollution, 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.

Graduate courses are available in a traditional face-to-face format as well as web-based distance learning. While the faculty and program are based at the Polytechnic campus, the entire program can be completed online. It is possible to complete the program within two years, including summers. Many students are working professionals and are able to finish the degree while working full time.

Graduates are employed by manufacturing and mining industries, federal, state and local environmental and water agencies, environmental firms, utilities, international agencies such as the U.N. and World Bank, and NGOs.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Polytechnic campus
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:

- Business (Global Agribusiness), BA
- Environmental Science, BA
- Environmental Science, BS
- Environmental and Resource Management, BS

Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be advised by their academic departments 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/Resources Regulations Concepts (3)
ERM 503 Principles of Toxicology (3)

Track Courses (9 credit hours)

Electives or Research (6-12 credit hours)

Other Requirement (3 credit hours)
ERM 506 Chemistry of Hazardous Materials (3)

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 and research; applied project students take twelve credit hours of electives and research; portfolio and written comprehensive exam students take fifteen credit hours of electives and 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 of a 3.00 cumulative GPA (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum of 3.00 cumulative GPA (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. GRE scores
4. letters of recommendation
5. proof of English proficiency

Additional Application Information

An applicant whose native language is not English (regardless of current residency) must meet English proficiency requirements as defined by Graduate Admissions. Students should be sure to review the TOEFL, IELTS, or PTE score requirements as the application will not be processed without valid proof of English proficiency: https://admission.asu.edu/international/graduate/english-proficiency.

The GRE can be waived in some situations. Students should refer to the GRE waiver request for more information and note that submitting the GRE waiver request is not a guarantee of approval: https://poly.engineering.asu.edu/advising/graduate-students/.
Application Deadlines

Fall

Spring

Contact Information

Environmental and Resource Management | WANER 101
polygrad@asu.edu | 480-727-4723
Admission Deadlines