Environmental and Resource Management (Water Management), MS

Program Description

Degree Awarded: MS Environmental and Resource Management (Water Management)

The MS degree program in environmental and resource management provides students with a background in the sciences, engineering, environmental sciences and other related disciplines along with the regulatory and technical backgrounds needed to mitigate the environmental impact of industrial sources of pollution, ensure compliance with environmental regulations, and manage and preserve natural ecosystems.

The concentration in water management focuses on issues of water quality, supply, conservation and augmentation strategies. This program is applicable especially to people who work in municipal, state, federal and tribal water and environmental agencies, water providers to urban and agricultural users, manufacturing and mining industries, as well as those interested in sustainable development in this country and around the world.

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:

- 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)

**Concentration (9 credit hours)**
ERM 523 Soils and Groundwater Contamination (3)
ERM 533 Water and Wastewater Treatment Technologies (3)
ERM 535 Water Law and Policy (3)

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

Students should see the academic unit for the approved course list for electives or research. Other coursework may be used with the approval of the academic unit.

The thesis and applied project options will have an oral defense.

**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 in the sciences (biology, chemistry, etc.), engineering, environmental sciences, ecology, environmental policy or related fields from a regionally accredited institution, or international equivalent.

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 a 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. resume
5. personal statement
6. letters of recommendation
7. 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 visit https://admission.asu.edu/international/graduate/english-proficiency for further English proficiency requirement information, including TOEFL, IELTS, or PTE score requirements. The application will not be processed without valid proof of English proficiency.

The GRE can be waived in some situations. Students should refer to the GRE waiver request (https://poly.engineering.asu.edu/advising/graduate-students/) for more information. Approval of the GRE waiver request does not guarantee admission to the program.

Application Deadlines

Fall
Spring

Contact Information