



Arizona State University (Polytechnic Campus)

Environmental and Resource Management, BS

Study details

Course type: Bachelor's degree

Degree: Environmental and Resource Management, BS TSETMBS

Study mode: Full time

Duration: 48 Month

Cost of study

Cost : 35 430 USD

Reg. fee : 85 USD

Scholarship :

Insurance : 2 765 USD

Intake/s

Jan/May/Aug

Requirements

Academic requirements

First-year students must:

- Have a 3.00 grade point average (GPA) (a "B" or better where "A"=4.00) from a secondary school. Some ASU programs may have higher admission or English proficiency requirements and may consider a minimum ACT or SAT score.
- Must have three years of high school coursework. (If you are currently in high school, ASU needs to see 9–11 grade coursework. If you have completed high school, ASU needs to see 10–12 grade coursework.)
- Must have and present a completed high school diploma or certificate.

Conditional admission

ASU may offer conditional undergraduate admission to international applicants to an on-campus program who meet the academic (aptitude) requirements but who are not proficient in English. This offer of conditional admission will give you time to improve your English proficiency before you start classes at ASU. Your conditional admission offer is good for up to three semesters, during which time you must meet one of these requirements to begin your ASU experience.

Competency requirements

International students who completed high school outside the U.S. are required to meet the following competency requirements:

- Math: four years (algebra I, geometry, algebra II and one course requiring algebra II as a prerequisite).

- Laboratory science: three years total (one year each from any of the following areas are accepted: biology, chemistry, earth science, integrated sciences and physics).

Provide evidence of English language proficiency (TOEFL 61)

Accommodation

Provided by partner agencies

Speciality

STEM-OPT for international students on F-1 visas

This program may be eligible for an Optional Practical Training extension for up to 24 months. This OPT work authorization period may help international students gain skills and experience in the U.S. Those interested in an OPT extension should review ASU degrees that qualify for the STEM-OPT extension at ASU's International Students and Scholars Center website.

The OPT extension only applies to students on an F-1 visa and does not apply to students completing a degree through ASU Online.

Additional information

Program description

The BS program in environmental and resource management provides critical scientific, engineering, regulatory and management skills for students who plan to pursue careers in industry, government or nongovernmental organizations. The program focuses on ensuring the health of engineered and natural ecosystems and mitigating the environmental impact of the industrial world.

The curriculum combines a strong foundation in chemistry, physics, biology and mathematics with a solid grounding in environmental law and policy, engineering and management principles. Students learn to apply environmental technologies to manage engineered environmental operations such as drinking water and wastewater treatment, management of hazardous and solid wastes, and the control of industrial and mobile sources of air pollution. They study Occupational Safety and Health Administration, U.S. Environmental Protection Agency and U.S. Department of Transportation 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.

An accelerated BS/MS degree option is available, in which up to 12 credit hours of the bachelor's degree may be applied toward the 30 credit 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.

Concurrent program options

Students pursuing concurrent degrees (also known as a “double major”) earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

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:

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

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.

Global opportunities

Global experience

Study abroad allows students of environmental resource management to further their understanding of the impact that the industrial world has on the environment. With an open mind, students further their studies and understanding of the various environmental conditions around the globe.

Students learn to thrive in a global environment through the rich educational and interpersonal experiences inherent in study abroad, and with over 300 Global Education program opportunities available to them, students are able to tailor their experience to their unique interests and skill sets. Whether in a foreign country, in the U.S. or online, students build communication skills, learn to adapt and persevere, and are exposed to research and internships across the world, increasing their professional network.

A resume enhanced by the valuable study abroad experience will impress prospective employers and will help the student stand out should they decide to pursue advanced study.

Career opportunities

Graduates with the skills gained in this 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 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, and environmental engineering consulting firms. They also ensure compliance with OSHA and EPA requirements in laboratories at pharmaceutical companies, water and wastewater treatment facilities or academic labs. On the regulatory side, graduates work for agencies such as the EPA or state and county departments of environmental quality.