NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

"We shall require a substantially new manner of thinking if mankind is to survive."

—Albert Einstein

Problems like climate change, species loss, and increased demand for finite resources become more critical every day. To better understand—and improve—our relationship with the natural world, consider the Center for Environmental Sciences and Education.

At CESE, you will study ecosystems and the ways humans interact with them—using the perspectives of not only the natural and social sciences, but also the humanities. You will work exclusively with full-time professors who have extensive practical experience in the environmental sciences. You'll have many opportunities for field study and research; our faculty members include undergraduate students in all research projects. You will learn to solve environmental problems and prepare for a career in research, industry, education, government, or public service.

Our environmental sciences program is one of best-established and oldest in the country. More than two-thirds of CESE graduates work in the environmental field—in state, tribal, and federal government agencies, and in private industry; almost half go on to complete graduate degrees in science, education, engineering, law, or policy. At CESE, you won't just learn about the environment, you'll get ready to change your world.

Degree Programs

- **Bachelor of Science in Environmental Sciences**
  Emphases in administration and policy, applied geology, applied mathematics, biology, environmental chemistry, environmental communications, environmental management, or microbiology
- **Bachelor of Arts in Environmental Studies**
- **Bachelor of Science in Environmental Studies**
  BA and BS Environmental Studies degree paths offer focus areas in sustainability, community & biocultural diversity; the Southwest environment; globalization and environmental change; landscape interpretation and conservation; or water and energy systems.

Career Opportunities

Study to become an . . .	Begin your career in . . .
Aquatic ecologist	Air quality monitoring/ remediation
Environmental engineer	Conservation biology
Environmental geologist	Environmental activism
Environmental planner	Environmental communication
Environmental toxicologist	Environmental education
Geographic information systems analyst	Resource management
Environmental policy manager	Risk assessment
	Water quality monitoring/ remediation

"Studying in the environmental sciences program has been a wonderful experience. I have gained a strong and very versatile grounding in issues like land use and management, species conservation, air and water quality, climate change, and environmental policy and communication. I now have the tools to make the most of opportunities in the future and to develop solutions to urgent real world problems. The dedication of the faculty to students is so strong. They have really supported and inspired me."

Bonnie Woods, senior environmental sciences major

Environmental Sciences and Education PO Box 5694 Flagstaff, AZ 86011 rod.parnell@nau.edu 928-523-9333

Explore Courses that Jump-start Your Career

The science of saving species
Consider the scientific basis for conserving and managing biological diversity in our **Conservation Biology** course. You'll use insights from ecology and other scientific disciplines to explore public policy and sociological issues. Your field studies and independent research will enhance your classroom experience.

Watching the river flow
Spend a week floating one of the West's most beautiful rivers in our field-study course, **Environmental Sciences of the San Juan River Basin**. You'll focus on ecology, geomorphology, and aqueous geochemistry. You will also evaluate impacts of river management on living and non-living components of the riparian corridor.

Making peace with the planet
How do we perceive our environment? How do we identify and resolve major environmental issues? You'll address these and other questions in our **Environmental Challenges** course. You'll study the structure and function of the natural world, and how humans relate to the environment—from humanistic, cultural, and political perspectives.

Experience the Work World

Earn academic credit and gain real-life skills through a required off-campus internship or undergraduate research project with a faculty member. Students have interned with the U.S. Forest Service, U.S. Geological Survey, Bureau of Land Management, National Park Service, Grand Canyon Monitoring and Research Center, the Arizona Department of Environmental Quality, and Arizona Game and Fish Department.

With $3 to 4 million in annual external funding to support environmental sciences research at the university, many assistantships are available. In addition, the National Science Foundation supports undergraduate students' research through the Mentoring in Environmental Biology and Research Experiences for Undergraduate programs.

Study Abroad

Study for a summer, a semester, or an academic year in universities around the globe. We provide international education opportunities to all academically qualified students. The university has cooperative agreements with institutions in Australia, Canada, Costa Rica, France, Germany, Ireland, New Zealand, Scotland, Sweden, and the United Kingdom. Start your travel planning with a visit to nau.edu/international.

Participate!

Live your earth-friendly values in **The Eco House/ Sustainability Learning Community**. Join other environmentally-minded students who live together in Cowden Hall, a centrally-located facility of 400 men and women in various degree programs. Residents strive to practice and promote environmentally sensitive living on campus.

Do you want to start dealing with global warming now? Then join the **NAU Campus Climate Challenge**. Develop policy and reach out to the community to pursue "carbon-neutral" technology and practices at the university.

Put your beliefs into action in the **Society of Environmental Communicators**. Raise environmental awareness and spur action on issues like recycling and energy-efficient campus transportation, and help organize the university's annual Earth Day activities.

Finish in Four

Stay on a four-year track to your degree and save money in the process. The university guarantees that you will have access to the courses you'll need to graduate on time. You are responsible for contacting an advisor early. All environmental sciences undergraduate degree paths are eligible. Visit nau.edu/finishinfour.

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