AUS | الجامعة الأميركية في الشارقة
American University of Sharjah

ENVIRONMENTAL SCIENCES

College of Arts and Sciences
www.aus.edu/cas

Environmental sciences entails studying and observing the effects of human activities on the environment. This is a multidisciplinary, natural science-based program that integrates biology, chemistry and other related sciences. Its aim is to enable students to identify and understand potential environmental issues and solutions. Students learn environmental monitoring, assessment, modeling, waste treatment and drinking water treatment. They gain experience in the operation of a wide array of advanced analytical equipment. They will become able to educate others about environmental issues and help in making vital and lasting decisions concerning the environment and its future.

Possible Career Options

- Biochemist
- Laboratory Researcher
- Biological Restoration Specialist
- Landscape Architect
- Environmental Biologist
- Park Service Worker
- Botanist
- Park Naturalist
- Ecologist
- Risk Manager
- Environmental Consultant
- Soil Conservationist
- Wastewater Treatment Plant Operator
- Urban/Regional Planner
- Drinking Water Treatment Plant Operator
- Environmental Remediation Specialist
- Environmental Toxicologist
- Zoologist

Possible Employers

- Environmental Non-Profit Organizations
- National/Government Parks
- Environmental Protection Agencies
- Environmental Planning Agencies
- Research Organization
- Waste Disposal Agencies
- Environmental Monitoring Agencies
- Chemical Companies
- National Wildlife Federation
- Oil Companies
- Colleges and Universities
- Engineering Firms
- Governmental Organizations
- Environmental Consulting Firms
- Special Interest Groups

Skills Required

- Ability to communicate and work well with people
- Ability to be analytical and scientific
- Ability to gather, understand and interpret data
- Ability to solve problems
- Ability to use logic and scientific thinking to deal with different types of problems
- Ability to think "outside the box"
- Ability to plan and develop research models
- Comprehensive knowledge of environmental issues
- Comprehensive knowledge of biological theories and practices
- Comprehensive knowledge of chemical theories and practices
- High proficiency in written and oral communication

Personal Attributes

- Achievement-oriented
- Analytical
- Creative
- Patient
- Desire for precision
- Detail-oriented
- Interest in living organisms
- Interest in the environment
- Resourceful

Ways to Get Experience

- Doing an internship
- Working part-time or volunteering with an environmental agency, a zoo, or wildlife and park associations
- Attending science-related lectures, workshops or conventions
- Joining environmental organizations and societies
- Attending science and environmental exhibits and fairs