# AUS | الجـامعـة الأميـركيـة فـي الشــارقـة
American University of Sharjah

# Master of Science in Environmental Sustainability and Management

## Data-driven solutions for a sustainable future

Recognized for its commitment to sustainability, AUS aligns its initiatives with national priorities and global frameworks, contributing meaningfully to long-term social and environmental impact. Building on this foundation, the Master of Science in Environmental Sustainability and Management offers a unique interdisciplinary curriculum that integrates rigorous environmental science with sustainability policy, resource management and advanced technical tools such as GIS and remote sensing. Students develop the critical managerial and analytical skills necessary to evaluate environmental systems, design sustainable solutions and guide evidence-based policy and planning to address national and global concerns.

## Why Pursue the MSENS Degree Program?

- An interdisciplinary curriculum blending environmental science, policy, management and data analytics

- A strong focus on developing managerial and analytical skills for evaluating environmental systems and designing sustainable, evidence-based solutions and policy

- Hands-on research, fieldwork and applied projects in collaboration with industry, government and NGOs

- A strong foundation for those seeking further academic advancement in environmental sciences and sustainability-related research

- Flexible study pathways to match your career or research goals

## Degree Requirements

Tailor your academic journey by selecting one of two dynamic degree options: thesis or course-based. To qualify for graduation, students must successfully complete at least **30 credit hours** in either option.

### Course-based Option

| 12 credit hours | core courses |
|---|---|
| 18 credit hours | elective courses |

### Thesis Option

| 12 credit hours | core courses |
|---|---|
| 12 credit hours | elective courses |
| 6 credit hours | research thesis |

All students must maintain a minimum cumulative **GPA of 3.00**.

## Program Courses

### Required courses (12 credit hours)

- **ENS 501** Environmental Sustainability and Management (3 credit hours)
- **ENS 502** Research Design and Methods in Environmental Sustainability and Management (3 credit hours)
- **ENS 511** Data Science for Environmental Science (3 credit hours)
- **ENS 512** Environmental Policy and Governance (3 credit hours)

### Elective courses (12-18 credit hours)

- **ENS 621** Advanced Data Science for Environmental Science (3 credit hours)
- **ENS 631** Sustainable Agriculture in Arid Regions (3 credit hours)
- **ENS 635** Climate Change and Adaptation (3 credit hours)
- **ENS 641** Environmental Informatics and Genomics (3 credit hours)
- **ENS 651** Ecological Conservation and Restoration (3 credit hours)
- **ENS 655** Water Resources Management and Sustainability (3 credit hours)
- **ENS 661** Environmental Pollutants and Public Health (3 credit hours)
- **ENS 665** Tools for Environmental Assessment (3 credit hours)
- **ENS 672 GIS** and Remote Sensing for Environmental Management (3 credit hours)
- **ENS 694** Special Topics in Environmental Sustainability and Management (3 credit hours)
- **ENS 698** Professional Project in Environmental Sustainability and Management (3 credit hours)

### Students choosing the thesis option must complete:

- **ENS 699** Master's Thesis (6 credit hours)

## Admission Requirements

In addition to meeting the university's general graduate admission requirements, applicants must hold a bachelor's degree in environmental science, biology, chemistry or a related natural science field from an independently accredited university recognized by the UAE Ministry of Higher Education and Scientific Research and AUS. Applicants from other disciplines may be considered if they demonstrate sufficient preparation in scientific principles relevant to environmental research and management.

Detailed information regarding admission requirements, the proposed sequence of study and graduation requirements can be found in the AUS Graduate Catalog: **www.aus.edu/catalog.**

## Program Faculty

MSENS is offered by the Department of Biology, Chemistry and Environmental Sciences, in collaboration with the Department of Mathematics and Statistics. Our faculty bring expertise in environmental science, sustainability, data science, applied research and more, ensuring students receive rigorous academic guidance and mentorship throughout their studies.

## Graduate Assistantships and Employment

AUS offers graduate students research and teaching assistantships awarded on a competitive basis. This offers not only financial assistance but also hands-on experience in teaching and research helpful to students interested in pursuing a career in academia. For more information visit **go.aus.edu/scholarship-ms**.

## Flexible Study Options

Flexible study arrangements, including part-time options, are available for busy professionals.

## Sustainability at AUS

AUS has been recognized internationally for its leadership in sustainability and has been named a Sustainability Tracking, Assessment and Rating System (STARS) Gold Institution by the Association for the Advancement of Sustainability in Higher Education (AASHE). This recognition reflects AUS' strong commitment to environmental and social responsibility embedded in our teaching and reflected through our campus sustainability.

**QS WORLD UNIVERSITY RANKINGS**

**#1 in the UAE** for environmental sustainability (2026)



## Contact us
MSENS@aus.edu

## Connect with us:
**@ausharjah**

## Apply Now
www.aus.edu/apply