

# Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
<b>General Education Requirements: 36 Credit Hours</b>					
ARL101 (A)	Communication Skills in Arabic I	ENG 200	English II	ISL 100 (A)	Islamic Culture (A)
ITD 100	Introduction to Information and Digital Technology	MTT 101	Pre-Calculus	STT 100	General Statistics
FWS 100	Academic Skills for Success	FWS 205	UAE and GCC Society	FWS 211	Fundamentals of Emotional Intelligence
FWS 301	Developing Future Leaders	FWS 305	Technical Communication for the Workplace	FWS 310	Fundamentals of Innovation and Entrepreneurship
<b>College Requirements: 3 Credit Hours</b>					
ASC 301	Research Report Writing				
<b>Major Requirements: 79 Credit Hours</b>					
BIO 205	General Biology I	BIO 205L	General Biology Laboratory I	CHE 205	General Chemistry I
CHE 201L	General Chemistry Laboratory I	CHE 207	Organic Chemistry	PHY 100	The Physics of Everyday Life
EHS 205	Introduction to Environmental Health & Safety	ENS 205	Introduction to Environmental Science	EHS 206	Environmental Health & Safety Management
EHS 210	Environmental Microbiology	HSC 305	Occupational Health & Safety	EHS 305	Sustainability
EHS 310	Food Safety & Management	HSC 315	Global Issues in Environmental Health	HSC 410	Healthcare Research Methodology
EHS 330	Special Topics in Occupational Health & Safety	EHS 320	Waste Management	EHS 399	Internship
EHS 420	Hazardous Materials	EHS 415	Environmental Health Regulation & Compliance	EHS 499	Undergraduate Research
EHS 400	Toxicology	EHS 424	Quality and Control of Water and Air Pollution	EHS 435	Environmental Monitoring and Control
EHS 435L	Environmental Monitoring and Control Lab	EHS 440	Industrial Hygiene	HSC 205	Biostatistics
HSC 210	Epidemiology & Population Health				
<b>Elective Courses: 12 Credit Hours</b>					
ME 1	Major Elective 1	ME 2	Major Elective 2	OE 1	Open Elective 1
OE 2	Open Elective 2				



## BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH & SAFETY

## Program Overview

The Bachelor of Science in Environmental Health and Safety (BSc in EHS) is a cutting-edge multidisciplinary program designed to meet the growing needs of industry and provide students with the skills to ensure occupational environmental protection, health, and safety in the workplace. The program covers major environmental issues including sustainability, renewable energy, water quality and management, pollution monitoring, hazardous materials operations and awareness, risk assessments, waste management, and occupational health and safety.

You will be provided with high-end knowledge in environmental health and safety and internship training that bridges academic knowledge with practical application in the workplace. You will learn how to identify and minimize the effect of different types of hazards that can affect the health and safety of employees. These include those related to ergonomics, thermal, chemical, electrical, mechanical, and radioactivity, as well as hazardous materials and waste. The program covers the fundamental scientific, legal, and technological principles underlying environmental health issues, looking at the circumstances giving rise to health inequalities, analyzing the environmental impact and health risks, and identifying appropriate interventions.

The EHS program is a distinctive program in the UAE at Abu Dhabi University. Our growing industry collaborations with organizations such as Environment Agency-Abu Dhabi (EAD), Occupational Safety and Health Center-Abu Dhabi (OSHAD), Camfil Clean Air Solutions, Abu Dhabi Food Control Authority (ADFCA), Atomena, and BEEAH group enrich the research and learning opportunities.



## Alumni's Testimonial

### Mohamed Al Hosani - Alumni

"The Environmental Health and Safety program has enabled me to develop my skills and obtain better career opportunities. I graduated in Fall 14/15 and I am currently working as EHS Manager at Abu Dhabi Ports. During my undergraduate degree in the College of Health Sciences, I was able to acquire a high standard of knowledge and information. I also had the opportunity to participate in workshops and conferences where I met people from different industry sectors. All of this was possible due to the continuous support from the professional faculty, who focus on linking the theoretical part of the program with industry."



## Career Prospects

Graduates of the EHS program will be qualified to work in a diverse range of public and private organizations across all sectors. These include but are not limited to ADNOC group of companies, OSHAD, EAD, ADFCA, National Drilling Company, Abu Dhabi Ports, Baraka Nuclear Power Plant, Abu Dhabi Waste Management Center-Tadweer, Environmental Protection and Safety Section (EPSS)-Abu Dhabi Municipality, Etihad Airways, Federal Authority for Nuclear Regulation, Abu Dhabi National Chemical Companies (ChemaWEyatt), Abu Dhabi Water and Electricity Authority (ADWEA), and Ministry of Energy and Industry. Roles include but not limited to::

- Environment, Health & Safety Officer
- Environment, Health & Safety Manager
- Occupational Health & Safety Specialist
- Occupational Health & Safety Auditor
- Sanitation Director
- Workplace Safety Assessor
- Food Safety Inspector
- Hazardous Waste Specialist
- Risk Assessment Consultant
- Impact Assessment Expert

## Graduates of the program will acquire the following knowledge and skills

- Identify information required to describe and manage the EHS issues at an institutional, regional, and global level.
- Assess the economic and social implications of environmental health and safety issues and their connection with both naturally-occurring environmental conditions and conditions created through human actions.
- Assess the effects of environmental policy on environment, health, and safety.
- Formulate recommendations for EHS standards for a sustainable society.
- Develop action plans for implementation of local and global EHS policies and regulations.
- Write, speak, and use electronic communication tools to communicate with the public and professionals concerning EHS issues.
- Apply critical thinking methods when making decisions and value judgements on EHS issues.
- Exhibit teamwork and leadership skills when working with groups on EHS issues.