

The Program in Environmental Science

“to address the critical importance of care of the environment for the quality of life in Qatar, and the region”

Dear Student - Welcome!

We thank you for considering Environmental Science as your major here at Qatar University. We are excited about our new program, and we look forward both to discussing your interests, as well as describing what we can offer you through our program.

Environmental Science is a new interdisciplinary curriculum designed specifically to prepare you for the growing challenges to our environment. The curriculum brings together contributing departments from the Colleges of Arts and Sciences, Engineering, and Law. As a graduate of our program, you will be ready and eligible for many different and rewarding job and career opportunities. Furthermore, upon graduation, you will be prepared to contribute much to the people of Qatar, and the region. Our theme - **“Our Children's Future”** - emphasizes the critical role of the state of the environment in determining the quality of life for future generations.

As a student of the program, you follow a core program that provides a comprehensive grounding in all aspects of environmental science, including topics as diverse as Health, Safety and Environment, Sustainable Development, Desert Biology, Environmental Law and Policy, Environmental Chemistry, Conservation and Biodiversity, Good Industrial Practice, Engineering Skills and Ethics, and more. In your junior and senior years to have the opportunity to specialize in one of two current tracks that lead to graduation with the:

B.Sc. in Environmental Science with a Specialization in Biotechnology

or

B.Sc. in Environmental Science with a Specialization in Marine Sciences

Important features of the program are a one-year undergraduate research experience on a topic you will select with one or more faculty members, as well as an internship during your senior year, when you will be exposed to the needs, strategies and operating principles of a stakeholder. Through these experiences you will develop your understanding of the importance leadership, and develop your problem-solving skills by working in a team.

The following pages provide information on all aspects of our program, including all course outlines, with objectives and learning outcomes, in a standardized digital format.

Again, welcome!

From all of the faculty in the program

Brief Student Guide

The Program in Environmental Science

Mission: The program seeks to educate and prepare students who can use current concepts, research, technological advances, and underlying scientific principles in the study of marine and desert ecosystems, management and conservation of natural resources, urban and regional planning, and who understand the needs of Qatari society and the social consequences of urban and industrial growth. Graduates of the program further understand resource management (especially water), waste management, environmental laws, regulations and environmental science policy; as they pertain to the GCC in general, and specifically to the State of Qatar.

Vision: to provide excellent undergraduate education and research in the broad area of Environmental Science, to address the needs of Qatari society, particularly the workforce needs of stakeholders, and to be recognized as the leader in Environmental Science education in the region through the quality of our graduates.

Program Highlights

- Opens for female students in Fall 2008, and for male students in Fall 2009
- Interdisciplinary with contributing departments in the Colleges of Arts and Sciences (CAS), Engineering, and Law
- First degree program in Environmental Science in Qatar
- 4-year (8-semester) curriculum of 125 credit hours for the B.Sc.
- Specialization in Biotechnology (Track 1) or Marine Sciences (Track 2)

Entry Requirements

- Admission and retention policies are consistent with those specified by Qatar University
- Specifically, an applicant to the program should hold the General Secondary Education Certificate or its equivalent with an average of not less than 70% for students of the Scientific Section to enroll in the College of Arts and Sciences
- Admission is consistent with the highest averages and admission capacity of the

Please see the brochure that accompanies this information.

Curriculum (125 credit hours; 8 semesters)

Suggested Program of Study

Fall 2008	credits	Spring 2009	credits
Arabic Language 1	3	Arabic Language 2	3
English Language 1	3	English Language 2	3
Islamic Culture	3	Calculus 1	3
Sustainable Development	3	General Chemistry 1	3
Biology 1	3	Exp. General Chemistry 1	1
		Biology 2	3
		Freshman Seminar	P/F

Fall 2009		Spring 2010	
General Chemistry 2	3	Biostatistics	3
Exp. General Chemistry 2	1	Desert Biology	3
General Physics	3	Microbiology	3
Principles of Ecology	3	Intro. to Marine Science	3
Critical Thinking	3	Modern History of Qatar	3
Information Technology	2		

Fall 2010		Spring 2011	
Marine Biology	3	Environment and Pollution	3
Environmental Chemistry	3	Waste Management and Remediation	3
Management and Conservation of Environment	3	Environmental Law	3
Elective	3	Environmental Impact Assessment	3
Elective	3	Track 2 course or Elective	3

Fall 2011		Spring 2012	
Track 1 or 2 Course	3	Track 1 or 2 Course	3
Water Resources Management	3	Track 1 or 2 Course	3
Engineering Skills/Ethics	3	Track 1 or 2 Course	3
Petroleum/Gas Technologies	3	Track 1 or 2 Course	3
Research	3	Track 1 or 2 Course	3
Health, Safety, Environment	3	Research continued	-