

## Program Viewbook

### Bachelor of Science in Public Health (BScPH)

### Environmental Health Management (EHM) Concentration

#### Program Description

The Bachelor of Science in Public Health with a concentration in Environmental Health Management provides students with a strong foundation in life sciences, public health, and the principles of environmental health. The curriculum combines scientific, managerial, and policy perspectives to address how environmental factors including air, water, soil and food affect population health and ecosystem sustainability. Students are introduced to methodologies for assessing environmental risks, applying health protection measures, and developing management systems in line with national and international standards. The program emphasizes applied learning alongside theoretical study. Laboratory work, field experiences, internships, and community projects allow students to gain practical skills in identifying, analyzing, and solving environmental health problems. Communication and leadership skills are also developed to prepare students for professional collaboration, individual research, and innovative problem-solving in diverse contexts.

Graduates are equipped for roles such as Environmental Health Specialist, Environmental Consultant, Environmental Scientist Food Safety Specialist, Occupational Safety and Health Specialist, Sustainability Consultant, Water Quality Scientist and Waste Management Officer.

#### Program Learning Outcomes (PLOs)

- PLO 1: Demonstrate an understanding of the fundamentals of life sciences.
- PLO 2: Demonstrate an understanding of fundamental concepts of Public Health and related issues.
- PLO 3: Comprehend specialized knowledge of professionally recognized methodologies applied in environmental health management.
- PLO 4: Communicate orally and in writing to different audiences in compliance with professional standards.
- PLO 5: Critically analyze and solve existing environmental health problems.
- PLO 6: Design and implement adequate solutions to protect Public Health using approved national and international practices.
- PLO 7: Work in an effective and creative way individually and in teams and demonstrate innovative leadership skills.
- PLO 8: Develop environmental management systems in compliance with national and international standards.
- PLO 9: Recognize the impact of economic, legal, ethical, and societal factors on Public Health.
- PLO 10: Assimilate current and evolving theories and skills in the field of Environmental Health.

## Program Completion Requirements

The Bachelor of Science in Public Health (BScPH) with a concentration in Environmental Health Management (EHM) shall be awarded to a student upon fulfillment of the following requirements:

- Successful completion of 129 credit hours.
- Achievement of a minimum cumulative GPA of 2.0 on a 4.0 scale.
- Completion of at least 50% of the total program credit hours at CUD.
- Completion of the Internship and Graduation Project while enrolled at CUD.

## Program Structure

<b>University Requirements Courses</b>	<b>24 Cr. Hrs.</b>
<b>Core Courses</b>	<b>72 Cr. Hrs.</b>
<b>Major Courses</b>	<b>33 Cr. Hrs.</b>
<b>Total</b>	<b>129 Cr. Hrs.</b>

## List of Courses

I. University Requirement Courses				
Course Code		Course Title	Prerequisite	Cr. Hrs.
<b>Compulsory Courses</b>				<b>21</b>
LNG	171	English I	None	3
LNG	172	English II	LNG 171	3
GED	102	AI in Modern Life	None	3
GED	190	Emirati Studies	None	3
GED	255	Critical Thinking and Problem Solving	LNG 172 or LNG 182	3
ENT	141	Fundamentals of Innovation and Entrepreneurship 1	None	2
ENT	142	Fundamentals of Innovation and Entrepreneurship 2	ENT 141	1
ENT	241	Entrepreneurship 1	ENT 142	2
ENT	242	Entrepreneurship 2	ENT 241	1
<b>Elective (Humanities - 03 Credits): Students are required to Select One Course from the following Pool</b>				
GED	103	Head Anatomy Sculpture	None	3
GED	106	Smart Decisions: Data Literacy and Visualization	None	3
GED	110	Modern Art Appreciation	None	3
GED	111	Music Appreciation and Communication	None	3
GED	191	Islamic Studies	None	3
GED	196	Communication Skills in Arabic 1	None	3
GED	205	Psychology in Everyday Life	LNG 172 or LNG 182	3
GED	324	Ethical Reasoning for Today's World	LNG 172 or LNG 182	3
GED	330	Introduction to Canadian Studies	None	3

II. Core Courses				
Course Code		Course Title	Prerequisite	Cr. Hrs.
<b>Compulsory Courses</b>				<b>69</b>
BIO	102	Biology I	None	3

Course Code	Course Title	Prerequisite	Cr. Hrs.
HOM 101	Fundamentals of Healthcare Management	None	3
MTH 112	Calculus I	None	3
SHS 100	Principles of Public Health	None	3
SHS 102	Healthcare Systems	None	3
SHS 103	Chemistry	None	3
SHS 105	Organic Chemistry	SHS 103	3
BIO 202	Biology II	BIO 102	3
ENV 201	Principles of Environmental Science	None	3
ENV 220	Introduction to Environmental Health	ENV 201	3
SCI 210	Modern Physics	None	3
SHS 200	Global Health	None	3
SHS 208	Infectious Diseases	None	3
SHS 220	Applied Medical Terminology	None	3
SHS 221	Chronic and Non-Infectious Diseases	None	3
HOM 303	Health Education and Promotion	None	3
ENV 310	Biostatistics	SHS 200	3
HA 320	Health Policy and Governance	SHS 102, SHS 200	3
ENV 416	Epidemiology	SHS 200	3
ENV 421	Occupational Health and Safety	81 Cr. Hrs.	3
SHS 410	Public Health Ethics	81 Cr. Hrs.	3
SHS 421	Leadership	81 Cr. Hrs.	3
SHS 430	Applied Research	81 Cr. Hrs.	3
<b>Program Elective Courses (03 Credits):</b> Students are required to Select One Course from the following courses			
SHS 205	Biochemistry	SHS 105	3
ENV 309	Impacts of Earth Resources and Natural Hazards on the Environment	ENV 201	3
HOM 414	Accreditation for Healthcare Organizations	HOM 320	3
SHS 420	Career Tasks and Challenges in Public Health	81 Cr. Hrs.	3

### III. Major Courses

Course Code	Course Title	Prerequisite	Cr. Hrs.
<b>Compulsory Courses</b>			<b>33</b>
ENV 302	Environmental Microbiology	None	3
ENV 311	Entomology and Pest Control Management	SHS 103	3
ENV 312	Food Quality and Control	ENV 201	3
ENV 321	Management of Domestic and Hazardous Wastes	ENV 201	3
ENV 326	Indoor and Outdoor Air Pollution	ENV 201	3
ENV 330	Hydrology and Water Waste Management	ENV 201	3
ENV 412	Toxicology	81 Cr. Hrs.	3
ENV 413	Marine Pollution	81 Cr. Hrs.	3
ENV 423	Environmental Management: Theory and Practice	ENV 201, ENV 321, ENV 326, ENV 330, ENV 413	3
ENV 424	Impacts of Climate Change Policy on Environmental Management	ENV 326, 81 Cr. Hrs.	3
SHS 400	Internship	81 Cr. Hrs.	3

### Eight Semesters Study Plan

Semester	Course Code	Course Title	Prerequisite	Cr. Hrs.
1	BIO 102	Biology I	None	3
	HOM 101	Fundamentals of Healthcare Management	None	3
	LNG 171	English I	None	3
	SHS 103	Chemistry	None	3
	ENT 141	Fundamentals in Innovation and Entrepreneurship 1	None	2
	<b>Total</b>			<b>14</b>
2	LNG 172	English II	LNG 171	3
	SHS 100	Principles of Public Health	None	3
	SHS 105	Organic Chemistry	SHS 103	3
	ENT 142	Fundamentals in Innovation and Entrepreneurship 2	ENT 141	1
	BIO 202	Biology II	BIO 102	3
	GED 102	AI in Modern Life	None	3
	<b>Total</b>			<b>16</b>
3	MTH 112	Calculus I	None	3
	SHS 102	Healthcare Systems	None	3
	SHS 200	Global Health	None	3
	SHS 208	Infectious Diseases	None	3
	ENV 201	Principles of Environmental Science	None	3
	ENT 241	Entrepreneurship 1	ENT 142	2
	<b>Total</b>			<b>17</b>
4	GED 190	Emirati Studies	None	3
	ENV 220	Introduction to Environmental Health	ENV 201	3
	ENV 302	Environmental Microbiology	None	3
	ENT 242	Entrepreneurship 2	ENT 241	1
	SHS 220	Applied Medical Terminology	None	3
	SHS 221	Chronic and Non-Infectious Diseases	None	3
	<b>Total</b>			<b>16</b>
5	SCI 210	Modern Physics	None	3
	GED 255	Critical Thinking and Problem Solving	LNG 172 or LNG 182	3
	ENV 310	Biostatistics	SHS 200	3
	ENV 311	Entomology and Pest Control Management	SHS 103	3
	ENV 312	Food Quality and Control	ENV 201	3
	ENV 330	Hydrology and Water Waste Management	ENV 201	3
	<b>Total</b>			<b>18</b>
6	HA 320	Health Policy and Governance	SHS 102, SHS 200	3
	HOM 303	Health Education and Promotion	None	3
	ENV 321	Management of Domestic and Hazardous Wastes	ENV 201	3
	ENV 326	Indoor and Outdoor Air Pollution	ENV 201	3
	GED XXX	Humanities Elective		3
	<b>Total</b>			<b>15</b>
7	ENV 412	Toxicology	81 Cr. Hrs.	3
	ENV 413	Marine Pollution	81 Cr. Hrs.	3
	ENV 416	Epidemiology	SHS 200	3
	SHS 410	Public Health Ethics	81 Cr. Hrs.	3
	XXX XXX	Program Elective Course		3
	<b>Total</b>			<b>15</b>
8	ENV 421	Occupational Health and Safety	81 Cr. Hrs.	3
	ENV 423	Environmental Management: Theory and Practice	ENV 201, ENV 321, ENV 326, ENV 330, ENV 413	3
	ENV 424	Impacts of Climate Change Policy on Environmental Management	ENV 326, 81 Cr. Hrs.	3
	SHS 421	Leadership	81 Cr. Hrs.	3
	SHS 430	Applied Research	81 Cr. Hrs.	3
	<b>Total</b>			<b>15</b>
Summer	SHS 400	Internship (Between semesters 6 to 8)	81 Cr. Hrs.	3
<b>Total Credit Hours</b>				<b>129</b>