



Course Specification

— (Bachelor)

Course Title: **Environmental Health**

Course Code: **PHE26353**

Program: **Bachelor of Sciences in Public Health**

Department: **Public Health**

College: **Applied Medical Sciences**

Institution: **University of Bisha**

Version: **1**

Last Revision Date: **2-8-2023**



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A. General information about the course:

1. Course Identification

1. Credit hours:

2(2+0)

2. Course type

A. University College Department Track Others
B. Required Elective

3. Level/year at which this course is offered: 5th level 3rd year

4. Course general Description:

In this course, students will learn the fundamental principles of environmental health from a public health perspective. Content includes topics on assessment of risk, human health issues and control strategies to reduce health risks.

5. Pre-requirements for this course (if any):

PHE26224

6. Co-requirements for this course (if any):

NA

7. Course Main Objective(s):

- Identify the major sources of environmental health hazards.
- Equip the students with skills to apply the primary strategies used to evaluate recognized hazards, and methods to reduce or control environmental health risks.
- Provide the students with an understanding to recognize the major types of physical, chemical, and biological environmental agents capable of inducing disease
- Provide students with the basic epidemiological strategies in risk characterization and management of environmental hazards.
- Present the basic strategies, regulatory and recommended limits for measuring toxic metals.
- Present current environmental health issues regarding solid / hazardous wastes and policies and regulations to control exposures to these hazards.

2. Teaching mode

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	26	86.6%
2	Blended	-	-
3	E-learning	2	6.7%
4	Interactive learning	2	6.7%
5	Other	-	-

3. Contact Hours





No	Activity	Contact Hours
1.	Lecture	26
2.	E-learning	2
3.	Interactive learning	2
4.	Self-learning	45
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Identify the major sources of environmental health hazards and the primary strategies used to reduce or control environmental health risks.	K3	Interactive lectures	Written exam
1.2	Recognize the interconnectedness among the physical, social, and environmental aspects of community health.	K5		
2.0	Skills			
2.1	Assess the exposure to the major types of physical, chemical and biological environmental agents capable of inducing disease	S1	Lecture-discussion Case study	Written assessment
2.2	Develop skills on how to analyze the consequences of environment policies on the reduction of health risks.	S2		
3.0	Values, autonomy, and responsibility			
3.1	Communicate evidence-based health information on environmental health issues	V2	Team based learning	In class evaluation
3.2	Evaluate approaches for assessing and controlling environmental hazards that affect public health	V2		



C. Course Content

No	List of Topics	Contact Hours
1.	Introduction: The environment at risk, Risk Assessment paradigm	2
2.	Environmental toxicology: Exposure assessment	4
3.	Environmental epidemiology: Risk characterization and management	4
4.	Air quality	2
5.	Zoonotic and microbial agents	2
6.	Educational Field Visit	2
7.	Toxic metals and elements	2
8.	Pesticides, and other organic chemicals	2
9.	Global climate change and human health	2
10.	Water quality	2
11.	Solid and liquid wastes	2
12.	Environmental policy and regulation	4
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Continuous assessment	All through	15%
2.	Mid exam	8 th	20%
3.	E-Learning activities	11 th	15%
4.	Final exam	End of semester	50%
Total			100%

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References

- Friis, R. (2012). *Essentials of Environmental Health* (2nd ed.). Sudbury, MA: Jones & Bartlett Learning. ISBN-13: 978-0763778903
- Megan London (2006) *Environment, Health And Sustainable Development*. (2nd ed.). Open university press ISBN-13: 978-0335218417-ISBN-10: 0335218415
- Frumkin, H. (2010). *Environmental Health: From Global to Local* (2nd ed.). San Francisco, CA: John Wiley & Sons. ISBN-13: 978-0470404874
- Apeller, D. (2011). *Environmental Health* (4th ed.). Harvard University Press. ISBN-13: 978-0674047402





Supportive References	<ul style="list-style-type: none"> Maxwell, N. 2013. <i>Understanding Environmental Health: How We Live in the World</i>. Burlington, MA: Jones & Bartlett Learning ISBN-13: 978-1449665371
Electronic Materials	<ul style="list-style-type: none"> https://unfccc.int/news/climate-change-impacts-human-health https://www.who.int/globalchange/summary/en/
Other Learning Materials	Digital library, at University of Bisha

2. Required Facilities and equipment

Items	Resources
facilities	Middle size classroom
Technology equipment	Multimedia projector Smartboard
Other equipment	NA

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students, Faculty, Quality committee	Direct/indirect - Using a well-structured questionnaire
Effectiveness of students assessment	Faculty members Peer Reviewer	Direct/indirect - Continuous reviewing and course portfolio
Quality of learning resources	Faculty members Curriculum Committee	Direct/indirect - Annual review course report
The extent to which CLOs have been achieved	Program Leader Course coordinator	Direct /indirect

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

