College of Micronesia-FSM
Course Outline

GENERAL INFORMATION:

Course Code and Title: PH 121 Environmental Prevention & Control of Diseases		
Course owner by program: Health Sciences/ASDPH		
Campus: Kosrae, National	**Initiator:** Frehiwot Teshome	**Date:** August 2025
Course description: This course equips students with knowledge and skills in the preparation of information on communicable disease for the use in the communities, with the support of public health workers. Students identify key environmental risk factors that contribute to disease, evaluate current policies and practices aimed at preventing and controlling environmental diseases, and propose community-based strategies to effectively address environmental health concerns.		

COURSE HOURS/CREDITS:

	Hours per Week		No. of Weeks		Total Hours		Semester Credits
Lecture	3	x	16	=	48 /16	=	3
Laboratory		x		=		=	
Workshop		x		=		=	
Co-op		x		=		=	
			Total Semester		Credits		3

PURPOSE OF COURSE:

[X] Degree requirement
[ ] Degree elective
[ ] Certificate
[ ] Other

PREREQUISITES: PH 101, SC 120

PSLOs OF OTHER PROGRAMS THIS COURSE MEETS:

PSLO#	Program

CC Chair signature: _____ **Date recommended:** _02/10/2026_

VPIA signature: _____ **Date approved:** 2/20/2026

I. Institutional Student Learning Outcomes

[X]	1. **Effective oral communication**: capacity to deliver prepared, purposeful presentations designed to increase knowledge, to foster understanding, or to promote change in the listeners' attitudes, values, beliefs, or behaviors.
[X]	2. **Effective written communication**: development and expression of ideas in writing through work in many genres and styles, utilizing different writing technologies, and mixing texts, data, and images through iterative experiences across the curriculum.
[X]	3. **Critical thinking**: a habit of mind characterized by the comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.
[ ]	4. **Problem solving**: capacity to design, evaluate, and implement a strategy to answer an open-ended question or achieve a desired goal.
[ ]	5. **Intercultural knowledge and competence**: a set of cognitive, affective, and behavioral skills and characteristics that support effective and appropriate interaction in a variety of cultural contexts.
[ ]	6. **Information literacy**: the ability to know when there is a need for information, to be able to identify, locate, evaluate, and effectively and responsibly use and share that information for the problem at hand.
[ ]	7. **Foundations and skills for life-long learning**: purposeful learning activity, undertaken on an ongoing basis with the aim of improving knowledge, skills, and competence.
[ ]	8. **Quantitative Reasoning**: ability to reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations; comprehends and can create sophisticated arguments supported by quantitative evidence and can clearly communicate those arguments in a variety of formats.

2) PROGRAM STUDENT LEARNING OUTCOMES (PSLOs): The student will be able to:

1. Deliver effective public health presentations
2. Develop well-researched written public health reports
3. Analyze public health data using critical thinking
4. Design and evaluate community health solutions
5. Apply cultural competence in public health interventions
6. Utilize credible sources and research for public health decision-making
7. Engage in professional development for lifelong learning
8. Apply quantitative reasoning to epidemiological and statistical data

3) COURSE STUDENT LEARNING OUTCOMES (CSLOs) (General): The student will be able to:

1. Identify major environmental risk factors that contribute to disease.
2. Evaluate policies and practices for the prevention and control of environmental diseases.
3. Propose community-based strategies to address environmental health concerns.

4) COURSE STUDENT LEARNING OUTCOMES (CSLOs) (Specific): The student will be able to:

1. **CSLO (General) 1:** Identify major environmental risk factors that contribute to disease.			
Student Learning Outcome (specific)	ISLO	PSLO	Assessment Strategies
1.1 Explain types of environmental hazards 1.2 Identify Sources of environmental hazards	3*	3	Students will have a quiz on major environmental risk factors and their contribution to disease outbreak. Students will use a worksheet to identify environmental hazards to be graded with a checklist.

1.3 Explain how an infectious disease outbreak might be recognized 1.4 Explain how the environment may play its part in the occurrence of a disease outbreak.			Students submit a written assignment explaining the role of the environment in disease outbreak to be graded with a rubric. Students engage in a forum discussion explaining the role of the environment on disease outbreak to be graded with a rubric.
CSLO (General) 2: Assess factors that influence health-related behaviors and choices.			
Student Learning Outcome (specific)	ISLO	PSLO	Assessment Strategies
2.1 Examine environmental regulations and public health policies. 2.2 Explain a disease notification system: its categories; reporting requirements and operational mechanisms.	2	2	Students will submit a policy analysis paper to be assessed with rubric. Students will have exam on a disease notification system and reporting requirements.
CSLO (General) 3: Propose community-based strategies to address environmental health concerns.			
Student Learning Outcome (specific)	ISLO	PSLO	Assessment Strategies
3.1 List the steps in the implementation of preventive measures, particularly those of environmental application. 3.2 Engage with communities to develop risk reduction strategies.	1	1	Students will do a Final project presentation addressing the steps to be taken in prevention, and risk reduction strategies of environmental health concerns to be assessed with rubric. Students will engage in a discussion forum on environmental health risk reduction strategies to be graded with a rubric.

5) COURSE CONTENT:

1. Introduction to Environmental Health
2. Environmental Epidemiology (Exposure pathways, disease burden).
3. Water Quality and Sanitation
4. Air Pollution and Respiratory Health
5. Food Safety and Chemical Exposures
6. Occupational and Housing Hazards
7. Environmental Policy and Risk Communication
8. Environmental Justice and Vulnerable Groups
9. Climate Change and Health
10. Community-Based Risk Reduction Strategies

6) METHOD(S) OF INSTRUCTION:

[X] Lecture [X] Cooperative learning groups
[ ] Laboratory [X] In-class exercises
[ ] Audio visual [ ] Demonstrations
[X] Other: online

7) Required Text AND COURSE MATERIALS:
Friis, R. (2019). Essentials of Environmental Health, 3rd ed. Jones and Bartlet Learning, LLC or latest edition.
https://dokumen.pub/essentials-of-environmental-health-3rd-edition-3rdnbsped-9781284123975.html

8) REFERENCE MATERIALS:
Environmental Protection Agency (EPA). Environmental Topics.
https://www.epa.gov/environmental-topics .Accessed 21 October 2025.

World Health Organization(WHO). Environmental Health
https://www.who.int/health-topics/environmental-health . Accessed 21 October 2025.

9) INSTRUCTIONAL COSTS: None

10) EVALUATION: Students must have a grade of 70%[C] or better to pass this course. The final project addressing a specific environmental risk factor is to be used in order to assess students.

11) CREDIT BY EXAMINATION: *None*