

國立臺灣大學課程綱要格式

Course Syllabus Form, National Taiwan University

107.08.30

課程資訊 Course Information				
課程名稱 Course title (中/英文)	全球環境衛生學 English: Global Environmental Health Science			
課程編號 Curriculum Number	MGH7006	班次 Class	學分數 Credits	2
全/半年 Full/Half Yr.	半年 Half Yr.		必/選修 Required/Elective	選修 Elective
授課教師 Instructor	李婉甄 老師 Professor Wan-Chen Lee		開課系所 Designated for	全球衛生碩士學位學程 GHP
上課時間 Time			上課地點 Venue	
備註 Remarks	本課程以英語授課；全球衛生碩士學位學程必修；總人數上限 20 人。			
課程大綱 (中/英文) Course Syllabus				
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課程概述 Course Description	This course explores the fundamentals of environmental health, giving students a solid grounding in current issues and controversies and enhancing understanding of the scientific data that drives these issues. It includes readings that illustrate concepts in the context of a developed country, as well as readings that illustrate that same concept in a developing country. By examining environmental health from local to regional perspectives, the materials also educate students about a variety of environmental health topics including human population, toxicology/biomes, water resources, solid and hazardous waste management, environmental justice, communications, technology, regulatory policy, and the consequences of human activity on natural systems. Some of these issues are further addressed with hands-on experiences in field trips. Through this course, we aim to lay out the facts, make the connections, and demonstrate the importance of crucial environmental health issues to human health and well-being, both in our homes, workplaces, and neighborhoods, and on a global scale.			
課程目標 Course Objective	1. Learn how environmental issues affect health and well-being closer to home 2. Discover how different fields incorporate environmental health			

	<p>perspectives</p> <p>3. Explore the cross-discipline manifestations of environmental health</p> <p>4. Understand the global ramifications of population and climate change</p>																		
課程要求 Course Requirement	The course sessions will include presentation on the topic of the day by the lecturer, and discussions of reading and other topics of interest. The materials of each lecture will be available on CEIBA for students to download.																		
關鍵字 Keywords																			
Office Hours																			
指定閱讀 Designated reading																			
參考書目 References	<p>1. Howard Frumkin (2016). Environmental Health: From Global to Local, 3rd edition. John Wiley & Sons.</p> <p>2. Anne Marie Zimeri (2013). Introduction to environmental health : a global perspective. San Diego, CA : Cognella.</p>																		
評量方式 Grading	<table border="1"> <thead> <tr> <th>#</th> <th>項目</th> <th>%</th> <th>說明</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Participation</td> <td>20</td> <td>In-class participation and group discussion.</td> </tr> <tr> <td>2</td> <td>Homework</td> <td>30</td> <td>Including case study report, site visit reports, and so on.</td> </tr> <tr> <td>3</td> <td>Final group project</td> <td>50</td> <td>Presentations on selected topics.</td> </tr> </tbody> </table>			#	項目	%	說明	1	Participation	20	In-class participation and group discussion.	2	Homework	30	Including case study report, site visit reports, and so on.	3	Final group project	50	Presentations on selected topics.
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週次 Week	日期 Date	單元主題 (中/英文) Topic	CEPH 核心能力 (CEPH Core Competence)																
第 1 週 Week 1		Part I: Methods and paradigms Introduction to environmental health	D17-1, D17-7																
第 2 週 Week 2		Environmental and occupational health epidemiology	D17-1, D17-7																
第 3 週 Week 3		Exposure science, industrial hygiene and exposure assessment	D17-3, D17-7																
第 4 週 Week 4		Risk assessment in environmental health	D17-3, D17-7																
第 5 週 Week 5		Gene, genomics and environmental health	D17-7, D17-8																
第 6 週 Week 6		Part II: Environmental health on the local scale Buildings and health	D17-7																
第 7 週 Week 7		Pest control and pesticides	D17-7																

第 8 週 Week 8		Solid and hazardous waste	D17-7
第 9 週 Week9		Environmental disasters	D17-7
第 10 週 Week 10		Environmental disasters – Case study	D17-7
第 11 週 Week 11		Work and health: Factory visit	D17-7
第 12 週 Week 12		Part III: Environmental health on the regional scale Air pollution and health (I)	D17-7
第 13 週 Week 13		Air pollution and health (II) : Field trip to Bali Refuse Incineration Plant	D17-7
第 14 週 Week 14		Air pollution and health (III) : Field trip to Taichung Power Plant	D17-7
第 15 週 Week 15		Water and health (I)	D17-7
第 16 週 Week 16		Water and health (II): Field trip to the water treatment plant	D17-7
第 17 週 Week 17		Part IV: Environmental health on the global scale Climate change and human health	D17-7
第 18 週 Week 18		Group project presentation	GH-6

全球衛生學位學程 核心能力

CEPH 2016 Accreditation Criteria for Foundational Knowledge

Profession & Science of Public Health

D17-1	Explain public health history, philosophy and values
D17-2	Identify the core functions of public health and the 10 Essential Services*
D17-3	Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population's health
D17-4	List major causes and trends of morbidity and mortality in the US or other community relevant to the school or program
D17-5	Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
D17-6	Explain the critical importance of evidence in advancing public health knowledge
D17-7	Explain effects of environmental factors on a population's health
D17-8	Explain biological and genetic factors that affect a population's health
D17-9	Explain behavioural and psychological factors that affect a population's health
D17-10	Explain the social, political and economic determinants of health and how they contribute to population health and health inequities

D17-11	Explain how globalization affects global burdens of disease
D17-12	Explain an ecological perspective on the connections among human health, animal health and ecosystem health (e.g. One Health)

ASPPH Master of Public Health's Global Health Concentration Competencies

GH-1	Analyze the roles, relationships, and resources of the entities influencing global health
GH-2	Apply ethical approaches in global health research and practice
GH-3	Apply monitoring and evaluation techniques to global health programs, policies, and outcomes
GH-4	Propose sustainable and evidence-based multi-sectoral interventions, considering the social determinants of health specific to the local area
GH-5	Design sustainable workforce development strategies for resource-limited settings
GH-6	Display critical self-reflection, cultural humility, and ongoing learning in global health

* 授課內容引用本所（系）教師發表之著作_____篇，引用本院教師發表之著作_____篇。
（請列出著作出版資料：作者姓名，題目，期刊名稱，卷數，起訖頁數及出版年）