

Course Title	Epidemiology and Prevention of Non-communicable and Infectious						
Course Code	Diseases in a Global Context						
	MPH-521						
Course Type	Required						
Level	2 nd Cycle						
Year / Semester	1/1						
Teacher's Name	Dr Angeliki Lambrou Dr Christiana Demetriou						
FOTO							
ECTS	10 Lectures 21 Interactive 26 learning activities						
Course Purpose	The main objectives of the course are to:						
and Objectives	 Analyse the epidemiology of the major non-communicable and infectious conditions causing the biggest burden on developed and developing societies and critically evaluate national and international preventive initiatives aiming at tackling these. Relate and contrast the different epidemiological paradigms for the aetiology of non-communicable conditions, as well as major emerging and re-emerging infectious conditions in developed and developing societies. Evaluate the global impacts of climate change on the epidemiology of major non-communicable and infectious conditions, including the connection between habitat loss, impact on species and potential for zoonotic transmission and appreciate the near-term health co-benefits that arise because of climate mitigation. Analyse the dynamics of infectious disease outbreak and apply measures of control and surveillance. Analyse the epidemiology of major emerging and re-emerging infectious conditions in the developed and developing world and apply the concept of migrant/refugee health in the context of infectious diseases. Analyse the principles of immunization and the basic methodologies involved in the design of such programmes, also highlighting the phenomenon of vaccine hesitancy. 						
Learning	After completion of the course students are expected to be able to:						
Outcomes	1. Analyse the epidemiology of cardio metabolic and cerebrovascular						
	conditions in the developed and the developing world.						
	2. Analyse the epidemiology of malignancies in the developed and the						
	developing world.						
	3. Analyse the epidemiology of dementia and other neurodegenerative						
	conditions in the developed and the developing world.						
	 Analyse the epidemiology of mental health conditions in the developing world. 						

	 Apply the principles of prevention for tackling major non-communicable disease epidemics and design preventive programmes for dealing with these in developed and developing countries. Compare and contrast the major epidemiological paradigms for the aetiology of non-communicable conditions (adult life risk factors, early life biological programming, and life-course effects). Evaluate how climate change can impact on the epidemiology of major non-communicable and infectious conditions, including the connection between habitat loss, impact on species and potential for zoonotic transmission. Evaluate the near-term health co-benefits that arise because of climate mitigation at the individual, local, and global scales and provide examples of sectoral policies at the European and national level that can reduce greenhouse gas emissions and improve health. Access and interpret relevant local, national, European, and global information and accurate science about climate change effects on health and the epidemiology of major non-communicable and infectious conditions. Analyse the phenomenon of emerging and re-emerging infectious diseases, their determinants, and the current response approaches. Analyse the main objectives of epidemiological surveillance and distinguish its major types. Analyse the characteristics of incubation period, transmission, and communicability of microbes and relate these with the spread of diseases in the population. Analyse the modes of epidemic initialisation and the types of epidemics. Apply all steps of an outbreak investigation considering the main objectives of infectious disease epidemic investigation. Analyse the major epidemiological characteristics of selected major infectious diseases for public health (e.g. HIV/AIDS, tuberculosis, influenza, diarrhoeal disease, malaria) in the developed and developing world. Apply modes of preventi
	regarding this specific issue in modern societies.
Prerequisites	None Required None
·	
Course Content	 Epidemiology of major non-communicable conditions I: cardiometabolic and cerebrovascular conditions Epidemiology of major non-communicable conditions II: neoplastic conditions

g,
Teaching Methodology Bibliography

Sick Societies: Responding to the Global Challenge of Chronic Disease.	Stuckler D, Siegal K	Oxford University Press	2011	978- 0199574 407
Oxford Textbook of Global Public Health (6 th ed.) ONLINE	Detels R, Gulliford M, Abdool-Karim Q, Tan CC	Oxford University Press	2015	978- 0199661 756
Infectious Disease Epidemiology: Theory and Practice (3 rd ed.)	Nelson KE, Williams C	Jones & Bartlett Learning	2013	978- 1449683 795
Control of Communicable Diseases Manual (20 th ed.)	Heymann DL	American Public Health Association	2014	978- 087553- 0185
Epidemiology and Prevention of Cardiovascular Disease: A Global Challenge (2 nd ed.)	Labarthe DR	Jones & Bartlett Learning	2011	978- 076374- 6896
Cancer Epidemiology: Principles and Methods	dos Santos Silva I.	IARC	1998	9283204 05-0
The Strategy of Preventive Medicine	Rose G.	Oxford University Press	1993	0192624 86-5

	Environmental Health: From Global to Local (3rd ed.) - Chapters 12, 13, 24	Frumkin H	Wiley	2016	9781118 988060		
	Modern Infectious Disease Epidemiology	Krämer A, Kretzschmar M, Krickeberg K.	Springer	2010	978- 038793- 8356		
	People's Movements in the 21st Century - Risks, Challenges and Benefits	Muenstermann I.	IntechOpen	2017	978- 953512- 9240		
Assessment	Online quiz (formative)						
Assessment	Coursework (1 essay) – 30% Mandatory interactive activities and webinar attendance/participation – 10% Final exam – 60%						
Language	English						