



MMPH6167 Infectious disease epidemiology

Course Coordinator:	Prof J Wu
Course Description:	This course covers the fundamental concepts of infectious disease epidemiology and current methods for infectious disease surveillance and control. Topics include epidemiologic triangle, transmissibility and severity of infectious diseases, outbreak investigations and responses, infectious disease surveillance, vaccination, molecular epidemiology, and epidemic modelling. Exemplary cases with focus on recent emerging infectious diseases (e.g., COVID-19, SARS, pandemic influenza, avian influenza, MERS) will be used to facilitate students' learning.
Venue:	TBC

Pre-/Co-requisite: (i) CMED 6100 Introduction to biostatistics; (ii) Basic programming skills in R or similar languages including the use of loops and functions. Students who have little or no experience at computer programming are expected to self-learn these skills via free online courses such as R Programming on Coursera (<https://www.coursera.org/learn/r-programming>).

Term 2 (Wednesday)

Contact person: Mr Jonathan Lau & Ms Vivian Leung

Date	Time	Lecture Topic	Lecturer	Venue
17 Jan 2024	6:30–9:30 pm	1. Introduction	Prof J Wu	TBC
24 Jan 2024	6:30–9:30 pm	2. Incubation period and severity	Prof J Wu	TBC
		Tutorial or Q&A		
31 Jan 2024	6:30–9:30 pm	3. Disease transmission	Prof J Wu	TBC
		Tutorial or Q&A		
21 Feb 2024	6:30–9:30 pm	4. Vaccination	Prof J Wu	TBC
		Tutorial or Q&A		
28 Feb 2024	6:30–9:30 pm	5. Disease surveillance	Prof J Wu	TBC
		Tutorial or Q&A		
06 Mar 2024	6:30–9:30 pm	6. Evaluating evidence	Prof J Wu	TBC
		Tutorial or Q&A		
13 Mar 2024	6:30–9:30 pm	7. Infectious disease modeling	Prof J Wu	TBC
		Tutorial or Q&A		
20 Mar 2024	6:30–9:30 pm	8. Sexually transmitted infections	Prof J Wu	TBC
		Tutorial or Q&A		
27 Mar 2024	6:30–9:30 pm	9. Vaccine safety and confidence	Prof J Wu	TBC
		Tutorial or Q&A		
03 Apr 2024	6:30–9:30 pm	10. Molecular epidemiology	Dr T Lam	TBC



		Tutorial or Q&A		
17 Apr 2024	6:30–8:30 pm	Final Test	-	TBC

Course Assessment: Coursework: 70%
Final Test: 30%

Recommended Textbooks: Giesecke J. Modern Infectious Disease Epidemiology. Edward Arnold; 2001. ISBN: 0340764236.

Contact person: Mr Jonathan Lau – email : cjllau@connect.hku.hk, Tel : TBC.
Ms Vivian Leung – email: leungvw@connect.hku.hk, Tel: TBC.