City University of Hong Kong Course Syllabus

offered by Department of Biomedical Sciences with effect from Semester A 2023/24

Part I Course Over	view
Course Title:	Infectious Disease Management
Course Code:	BMS5002
Course Duration:	One semester
Credit Units:	3
Level:	5
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: (Course Code and Title)	NIL
Precursors: (Course Code and Title)	NIL
Equivalent Courses : (Course Code and Title)	NIL
Exclusive Courses:	NII

Part II Course Details

1. Abstract

The course aims to provide students the principles and practice on the diagnosis, control and prevention of infectious diseases. Topics including (1) disease principle, diagnosis and detection; (2) epidemiology principles, outbreak, dynamics, molecular epidemiology; (3) disease management principles (I): nutrition, hospital infection, antibiotic resistance; (4) disease management principles (II): prevention of disease spread, vaccinology; (5) disease management principles (IV): public health policy, biosecurity threats; (7) Topic I: management of diseases with airborne transmission (e.g., COVID-19); (8) Topic II: management of diseases with fecal-oral transmission and body fluid transmission; (9) topic III: management of diseases with vector-borne transmission. In all topics, special attention will be paid on how communicable diseases and their control affects the public health locally, nationally and internationally.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs#	Weighting (if applicable)	curricu learnin	very-englum realized tick priate)	lated omes
1.	Understand biological concepts that are relevant to infectious diseases, and basic principles of infectious disease epidemiology such as outbreak investigation, disease surveillance.	40	✓	✓	
2.	Understand the major infectious disease and various modes of transmission of infectious disease agents, recognize the properties of different types of pathogens and the mechanisms of pathogenesis, and the principles of healthcare management in infectious diseases.	30	√	✓	✓
3.	Understand the control and evaluation strategies for infectious diseases, develop management skills of infectious diseases and social responsibility, apply specialized knowledge in the care of infectious diseases via critical thinking	30		✓	✓
•		100%		•	•

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Teaching and Learning Activities (TLAs) (TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CIL	CILO No.		Hours/week (if applicable)
		1	2	3	
Lectures	Lecture introduction on course content	√	✓	√	
Tutorial	To give oral presentation on a certain topic for case study	√	√	√	

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CII 1	O No	0.	Weighting	Remarks
Continuous Assessment: 65 %	•				
Oral presentation	✓	✓	✓	30%	
Mid-term Exam/Quiz	√	√	√	35%	Midterm exam 35% @ 7 th week, covering studies from 1-6 weeks study
Examination: 35% (Duration: 2 hours; covering stud	lies fr	om 8	-13 v	veeks study).	

^{*} The weightings should add up to 100%.

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.) Applicable to students admitted in Semester A 2022/23 and thereafter

Assessment Task	Criterion	Excellent	Good	Marginal	Failure
		(A+, A, A-)	(B+, B)	(B-, C+, C)	(F)
1. Oral Presentation	Ability to analyse and criticise	Outstanding	Substantial performance	Satisfactory	Unsatisfactory
	the infectious disease	performance on all	on all CILOS. Evidence	performance on the	performance on a
	management	CILOs. Strong evidence	of grasp of subject,	majority of CILOS	number of CILOS.
2. Examination	Ability to analyse, state and	of original thinking;	some evidence of	possibly with a few	Failure to meet
	apply the principles and	good organization,	critical capacity and	weaknesses. Being able	specified assessment
	subject matter learnt in the	capacity to analyse and	analytic ability;	to profit from the course	requirements, little
	course	synthesize; superior	reasonable	experience;	evidence of familiarity
		grasp of subject matter;	understanding of issues;	understanding of the	with the subject matter;
		evidence of extensive	evidence of familiarity	subject; ability to	weakness in critical and
		knowledge base.	with literature.	develop solutions to	analytic skills; limited
				simple problems in the	or irrelevant use of
				material.	literature.

Applicable to students admitted before Semester A 2022/23

Assessment Task	Criterion	Excellent	Good	Fair	Marginal	Failure
		(A+, A, A-)	(B+, B, B-)	(C+, C, C-)	(D)	(F)
1. Oral Presentation	Ability to analyse and	Outstanding	Substantial	Satisfactory	Barely satisfactory	Unsatisfactory
	criticise the infectious	performance on all	performance on all	performance on the	performance on a	performance on a
	disease management	CILOs. Strong	CILOS. Evidence	majority of CILOS	number of CILOS.	number of CILOS.
2. Examination	Ability to analyse,	evidence of	of grasp of	possibly with a few	Sufficient familiarity	Failure to meet
	state and apply the	original thinking;	subject, some	weaknesses. Being	with the subject matter	specified assessment
	principles and subject	good organization,	evidence of	able to profit from	to enable the student	requirements, little
	matter learnt in the	capacity to analyse	critical capacity	the course	to progress without	evidence of familiarity
	course	and synthesize;	and analytic	experience;	repeating the course.	with the subject
		superior grasp of	ability; reasonable	understanding of		matter; weakness in
		subject matter;	understanding of	the subject; ability		critical and analytic
		evidence of	issues; evidence of	to develop solutions		skills; limited or
		extensive	familiarity with	to simple problems		irrelevant use of
		knowledge base.	literature.	in the material.		literature.

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

Principles of infectious diseases,

Outbreak investigation,

Disease surveillance,

Zoonotic diseases

Vector-borne diseases

Antibiotic resistance,

Vaccinology and therapeutics,

Public health policy

Emergency responses to emerging diseases

Biosecurity threats

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

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NII
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2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

1.	"Infectious Disease Epidemiology", Third Edition, edited by Kenrad Nelson and Carolyn		
	Williams. Jones and Bartlett, 2014.		
2.	"Basic infection control for health care providers", Second Edition, Clifton Park, NY:		
Thomson Delmar Learning, M. Kennamer, 2007.			