

Course Syllabus for General Microbiology (SCBE210)

Credit: 3(2-3-5)

Google class code: ooxcual

Lecture Time: Mondays 09:00-11.00 o'clock (SC1-157)

Lecturer: Pahol Kosiyachinda

Required textbook: Anderson D., Salm, S., Allen D. Nester's Microbiology, McGraw-Hill; 2019

Date	Topic	Assignment
18 Jan	Biochemistry of cell and cell structure	Chapter 1-3
25 Jan	Dynamics of microbial growth and its requirement	Chapter 4-5
1 Feb	Microbial metabolism	Chapter 6
8 Feb	Identification and classification of microorganisms	Chapter 10
15 Feb	Sub-cellular organisms and infectious particles	Chapter 13
22 Feb	Bacteria and archaea	Chapter 11
1 Mar	Eukaryotic microorganisms (univellular)	Chapter 12
8 Mar	Eukaryotic microorganisms (multicellular)	Chapter 12
15 Mar	Midterm Examination	
22 Mar	Host-microbe interactions	Chapter 16
29 Mar	Immune responses	Chapter 14-15
5 Apr	Epidemiology	Chapter 19
12 Apr	Antimicrobial medications	Chapter 20
19 Apr	Infections and diseases	Chapter 21-27
26 Apr	Microbial ecology and epidemiology	Chapter 28
3 May	Environmental microbiology	Chapter 29
11-21 May	Final Examination	

Evaluation

TQF	Evaluation Method	Week	Proportion
1	- Participation/Activities - Attendance/Attention	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	30 %
2	- Laboratory	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	30%
3	- Midterm Examination	1, 2, 3, 4, 5, 6, 7, 8	20 %
4	- Final Examination	9, 10, 11, 12, 13, 14, 15, 16	20 %

Course Syllabus for General Microbiology (SCBE210)

Credit: 3(2-3-5)

Google class code: ooxcual

Laboratory Time: Mondays 11:00-14:00 o'clock (SC3-300)

Lecturer: Pahol Kosiyachinda

Required textbook: Anderson D., Salm, S., Allen D. Nester's Microbiology, McGraw-Hill; 2019

Date	Topic
18 Jan	Lab safety and orientation
25 Jan	Aseptic technique
1 Feb	Medium preparation
8 Feb	Colony morphology and form of growth
15 Feb	Physical factors affecting growth and control
22 Feb	Staining
1 Mar	Dilutions and quantification methods
8 Mar	Laboratory assessment 1
15 Mar	Midterm Examination
22 Mar	Biochemical analysis
29 Mar	Biomass measurements
5 Apr	Sampling methods
12 Apr	Isolation methods
19 Apr	Antibiotic testing
26 Apr	Water microbiology
3 May	Soil microbiology
11-21 May	Final Examination

Laboratory technician:

Ms. Krissana Parkpoomkamol