

## Course Syllabus for General Microbiology (SCBE210)

Credit: 3(2-3-5)

Google class code: nnxkxgv

Lecture Time: Mondays 08:30-10.30 o'clock (SC1-153)

Lecturer: Pahol Kosiyachinda

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

Class materials: <https://classroom.google.com/c/NTgwOTM4NDQzOTQ2?cjc=nnxkxgv>

Date	Topic	Assignment
9 Jan	Biochemistry of cell and cell structure	Chapter 1-3
16 Jan	Dynamics of microbial growth and its requirement	Chapter 4-5
23 Jan	Microbial metabolism	Chapter 6
30 Jan	Identification and classification of microorganisms	Chapter 10
6 Feb	Sub-cellular organisms and infectious particles	Chapter 13
13 Feb	Bacteria and archaea	Chapter 11
20 Feb	Eukaryotic microorganisms (unicellular)	Chapter 12
27 Feb	Eukaryotic microorganisms (multicellular)	Chapter 12
6 Mar	Public holiday	
13 Mar	Midterm Examination	
20 Mar	Host-microbe interactions and immune responses	Chapter 14-16
27 Mar	Epidemiology	Chapter 19
3 Apr	Antimicrobial medications	Chapter 20
10 Apr	Infections and diseases	Chapter 21-27
17 Apr	Public holiday	
24 Apr	Microbial ecology and environmental microbiology	Chapter 28-29
1-12 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: nnxkxgv

Laboratory Time: Mondays 10:30-13:30 o'clock (SC3-300)

Lecturer: Pahol Kosiyachinda

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

Date	Topic
9 Jan	Lab safety and orientation
16 Jan	Aseptic technique
23 Jan	Medium preparation
30 Jan	Colony morphology and form of growth
6 Feb	Physical factors affecting growth and control
13 Feb	Staining
20 Feb	Dilutions and quantification methods
27 Feb	Isolation methods & contamination
6 Mar	Public holiday
13 Mar	Midterm Examination
20 Mar	Biochemical analysis
27 Mar	Biomass measurements
3 Apr	Sampling methods
10 Apr	Antibiotic testing
17 Apr	Public holiday
24 Apr	Water microbiology & soil microbiology
1-12 May	Final Examination

### Laboratory technician:

Ms. Suchada Geawduanglek from MDL

### Required Text:

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