

110 下 LS 312200 微生物學 (Microbiology)

Time: M5M6 & R5

1. Textbook: Prescott et al., 2020 Prescott's Microbiology, 11th ed. McGraw Hill

藝軒圖書出版社代理 (02)2367-6824 or (02)2918-2288

2. Lecture notes/materials: go to iLMS 升級版「清華大學 eeclass 數位學習平台」
(<https://eeclass.nthu.edu.tw/>)

3. Instructor: Mou-Chieh Kao (高茂傑) mckao@life.nthu.edu.tw LS-I 307 ext. 42472

Chung-Yu Lan (藍忠昱) cylan@life.nthu.edu.tw LS-I 405 ext. 42473

Hsien-Sheng Yin (殷獻生) hsyin@life.nthu.edu.tw LS-II 320 ext. 42469

4. Teaching assistant:

to be announced

5. TA office hours: By appointment only

6. Course description:

This is a course of introductory level, which intends to give a general overview of modern microbiology. Medical and molecular aspects of microbiology will be specifically emphasized. The class will be taught by giving lectures following the outlines of the textbook.

7. Grading

100% three in-class written examinations

8. Syllabus

Week	Date	Topics (chapter)	Instructor
1	2/14 2/17	The evolution of microorganisms and microbiology (1)	Kao
2	2/21 2/24	Microscopy (2)	Kao
3	2/28 3/3	和平紀念日 Microscopy (2)	Kao
4	3/7 3/10	Bacteria cell structure (3)	Kao
5	3/14 3/17	Bacteria cell structure (3)	Kao
6	3/21 3/24	Bacterial and archaeal growth (7) Microbial genomics (18)	Kao Lan
7	3/28 3/31	Examination I (包含 2/14~ 3/21 之內容) Microbial taxonomy and the evolution diversity (19)	Kao Lan
8	4/4 4/7	兒童節 Microbial taxonomy and the evolution of diversity (19)	Lan
9	4/11 4/14	Nonproteobacterial Gram-Negative Bacteria (21)	Lan

10	4/18 4/21	Proteobacteria (22)	Lan
11	4/25 4/28	Infection and pathogenicity (35)	Lan
12	5/2 5/5	Human diseases caused by bacteria (39) Viruses and other acellular infectious agents (6)	Lan Yin
13	5/9 5/12	Examination II (包含 3/24 ~ 5/02 之內容) Viruses and other acellular infectious agents (6)	Lan Yin
14	5/16 5/19	Viruses (26)	Yin
15	5/23 5/26	Viruses (26)	Yin
16	5/30 6/2	Innate host resistance (32)	Yin
17	6/6 6/9	Adaptive immunity (33)	Yin
18	6/13	期末考試 (包含 5/5~ 6/9 之內容)	Yin