

LIFS1902 General Biology II

Course Outline-Spring Semester 2016-17

1. Instructors

Instructor	Office	Extension	E-mail address
Prof. Prof. Yung Hou WONG (Course Co-ordinator)	Room 5461	x7328	boyung@ust.hk
Dr. Jessica Tang	Room 4218	x7314	bocemun@ust.hk

2. Meeting Time and Venue

Lectures:

Date/Time: Wednesdays and Fridays at 1.30 p.m. to 2.50 p.m.

Venue: LTJ

3. Course Description

Credit points: 3

Pre-requisite: LIFS1901 OR level 3 or above in HKDSE 1x Biology OR a passing grade in AL/AS Biology

Exclusion: NIL

Grading: A+ to F

Brief information/synopsis:

This course targets science students who have acquired basic knowledge in fundamental biology through HKDSE Biology, LIFS1901, or another biology course/program at the equivalent level. It functions as a bridging course to prepare the students for further study in life science. Its focus is on human biology, biotechnology and human impacts on the environment. Current examples will be used as well to relate the knowledge to real life issues.

4. Intended Learning Outcomes

Upon completion of this course, students are expected to be able to:

No.	ILOs
1	Explain the basic structures and life processes in humans.
2	Explain basic inheritance of traits in humans.
3	Explain basic biotechniques and discuss their impact on human lives.
4	Discuss the relevance of life science to the study of the human as a living organism.

5. Assessment Scheme

- a. Mid-term duration 1hr 10 minutes
- b. Final Examination duration: 2 hrs

Assessment
Mid-term (35%)
Final Exam (65%)

Assessing Course ILOs
ILO: 1, 2, 3, 4
ILO: 1, 2, 3, 4

6. Student Learning Resources

Lecture notes

Recommended reading: Inquiry into Life, 15th ed. By Sylvia S. Mader (2017) McGraw Hill

Print book HKD 423

E book HKD240 (license for one semester)

7. Teaching and Learning Activities

Scheduled activities: Two 80-minute lectures per week

8. Course Schedule

Date	Topic (Relevant chapter in the textbook)	Instructor
Feb 1, 3	Internal transport (12)	Wong
Feb 8, 10	Lymphatic, immune system & infectious diseases (13)	Wong
Feb 15, 17	Processing food & nutrition (14)	Wong
Feb 22, 24	Gas exchange (15)	Wong
Mar 1, 3	Osmoregulation & excretion (16)	Wong
Mar 8, 10	Nervous system (17)	Tang
Mar 15	Mid-term	Wong
Mar 17, 22	Endocrine regulation (20)	Tang
Mar 24, 29	Reproduction (21)	Tang
Mar 31, Apr 5	Development & aging (22)	Tang
Apr 7, 19	Human genetics – patterns of gene inheritance (23)	Tang
Apr 21, 26	Human genetics – chromosomal basis of inheritance (24)	Tang
Apr 28, 5	Biotechnology (26)	Tang