LIFS1902 General Biology II

Course Outline-Spring Semester 2017-18

1. Instructors

Instructor	Office	Extension	E-mail address
Prof. Robert Ko (Course Co-ordinator)	Room 5534	x7298	bcrko@ust.hk
Prof. Raymond Wong	Room 5507	x7271	bcrayw@ust.hk
Dr. Jessica Tang	Room 4218	x7314	bocemun@ust.hk

2. Meeting Time and Venue

Lectures:

Date/Time: Wed and Fri 13.30-14.50

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. Relevant examples will be used 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 biotechnology and discuss their impact on human life.
4	Discuss the relevance of life science to the study of the human as a living organism.

5. Assessment Scheme

a. Mid-term duration 1hour 10 minutes

b. Final Examination duration: 2 hours

Assessment	Assessing Course ILOs
Mid –term (40%)	ILO: 1, 2, 3, 4
Final Exam (60%)	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 2,7	Digestion and Nutrition (Chapter 14)	Wong
Feb 9,14	Cardiovascular system for internal transport (Chapter 12)	Wong
Feb 21,23	Respiratory system for gas exchange (Chapter 15)	Ko
Feb 28, Mar 2	Osmoregulation & excretion (Chapter 16)	Ko
Mar 7, 9	Lymphatic, immune system & infectious diseases (Chapter 13)	Ko
Mar 14,16	Endocrine regulation (Chapter 20)	Tang
Mar 21	**Mid-term**	
Mar 23,28	Nervous system (Chapter 17)	Tang
Apr 6, 11	Reproduction (Chapter 21)	Tang
Apr 13,18	Development & aging (Chapter 22)	Tang
Apr 20, 25	Human genetics – patterns of gene inheritance (Chapter 23)	Tang
Apr 27, May 2	Human genetics – chromosomal basis of inheritance (Chapter 24)	Tang
May 4, May 9	Biotechnology (Chapter 26)	Tang