LIFS 1902 General Biology II

Course Outline-Fall 2018

1. Instructors

Instructors	Office	Extension	E-mail address
Prof. Karl HERRUP (Course Coordinator)	Room 5466	x7302	herrup@ust.hk
Prof. Chun LIANG	Room 5524	x7296	bccliang@ust.hk
Dr. Philip LAM	Room 5515	x8714	ylam@ust.hk

2. Meeting Time and Venue

Lectures:

Date/Time: Monday 12.00 – 13.20 ; Wednesday 12.00 – 13.20

Venue: LTL

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, human genetics, and biotechnology. Current examples will be used as well to relate the knowledge to real life issues.

4. Intended Learning Outcomes

On successful 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 and gene expression in humans.
3	Explain basic biotechnologies and discuss their impacts on human lives.
4	Discuss the relevance of life science to the study of humans as a living organism.

5. Assessment Scheme

a. Mid-term Examination duration: 2 hrs

Final Examination duration: 3 hrs

b. Percentage of coursework, examination, etc.:

Assessment	Assessing Course ILOs
Mid-term Exam (50%)	ILO: 1, 2, 3, 4
Final Exam (50%)	ILO: 1, 2, 3, 4

6. Student Learning Resources

Lecture notes

Textbook: ***Inquiry into Life***, 14th/15th ed. By Sylvia S. Mader; McGraw Hill

Textbook: about HK$505 after student discount (Sell at campus bookstore)

Textbook + Connect Plus: HK$515 after student discount (Sell at campus bookstore)

Connect Plus (With ebook): US$38.5 per code

SmartBook: US$31 per code

LearnSmart: US$16.5 per code.

7. Course Schedule

Date	Topic (Relevant chapter in the textbook)	Instructor
Sep 3, 5, 10	Introduction; DNA structure and gene expression (25)	Liang
Sep 12	Patterns of gene inheritance (23)	Liang
Sep 17	Evolution (27)	Herrup
Sep 19	Chromosomal basis of inheritance (24)	Liang
Sep 24	Development (22)	Lam
Sep 26, Oct 3	Respiratory system (15)	Lam
Oct 8, 10	Endocrine system (20)	Herrup
Oct 15	Reproduction (21)	Herrup
Oct 19, 7-9pm	Mid-term exam (covers lectures from Sep 3 – Oct 15)	
Oct 22, 24	Circulatory system (12)	Herrup
Oct 29, 31	Lymphatic, immune systems & infectious diseases (13)	Herrup
Nov 5	Osmoregulation & excretion (16)	Herrup
Nov 7, 12	Digestive system and nutrition (14)	Liang
Nov 14	Biotechnology (26)	Liang
Nov 19, 21, 26	Nervous system	Herrup
Nov 28	Aging (22)	Herrup