

# LIFS1902 General Biology II

## Course Outline-Fall 2016

### 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

### 2. Meeting Time and Venue

Lectures:

**Date/Time:** Wednesday 15.00 – 16.20

Friday 15.00 – 16.20

**Venue:** LTB

### 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. Final Examination duration: 3 hrs  
Mid-term Examination duration 1hr 15min
- b. Percentage of coursework, examination, etc.:

### Assessment

Mid-term Exam (40%)

Final Exam (60%)

### Assessing Course ILOs

ILO: 1, 2, 3, 4

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## 6. Student Learning Resources

Lecture notes

Textbook: *Inquiry into Life*, 14<sup>th</sup> ed. By Sylvia S. Mader (2014) McGraw Hill

## 7. Teaching and Learning Activities

Scheduled activities: Two 80-minute lectures per week

## 8. Course Schedule

Date	Topic (Relevant chapter in the textbook)	Instructor
Sep 2, 7	Introduction, DNA structure and control of gene expression (25)	Liang
Sep 9, 14	Human genetics-genes and chromosomes (23, 24)	Liang
Sep 21, 23	Reproduction (21) & Development (22)	Liang
Sep 28, 30	Evolution (27) Aging (22)	Herrup
Oct 5, 7	Endocrine system (20)	Herrup
Oct 12, 14	Digestive system and nutrition (14)	Liang
Oct 19	Mid term	
Oct 21, 26	Lymphatic, immune systems & infectious diseases (13)	Herrup
Oct 28, Nov 2	Circulatory system (12)	Herrup
Nov 4, 9	Respiratory system (15)	Herrup
Nov 11	Osmoregulation & excretion (16)	Herrup
Nov 16, 18	Biotechnology (26)	Liang
Nov 23, 25	Nervous system	Herrup
Nov 30	Nervous system	Herrup
TBD	Final exam	