




Human Homeostasis (SCIS2271)

Introduction In this course, detailed explanations of how human body maintains stable body metabolism to the changes of external environment will be provided. Students can learn how the nervous and hormonal system coordinate and work together to optimize blood glucose level, core temperature, carbon dioxide and oxygen content in human blood. Daily applications will also be discussed, such as artificial kidney, vaccination development history, wired enzyme application in testing blood glucose level.


Programme Type / Level Homeostasis Course (Level 3) ([Token-required](#))


Instructor(s) Dr LEUNG Ho Man Homan
(PhD in Biology, Hong Kong Baptist University)

Pre-requisite No special prerequisites are needed


Target Participants 

- S1 – S3 HKAGE student members in 2019/20 school year only
- Class size: 30
- * First-come, first-served

Medium of Instruction  English with English handouts

Certificate  **E-Certificate** will be awarded to participants who have:

- ❖ Attended **at least 3 sessions**; **AND**
- ❖ Completed all the assignments with **satisfactory performance**

Intended Learning Outcomes  Upon completion of the programme, participants should be able to:


1. describe the nature of hormonal coordination and explain the principle of feedback mechanism with reference to the regulation of blood glucose level;
2. understand the structural, physiological and behavioural mechanisms of body temperature regulation and regulation of water content;
3. explain how the gas content in blood is regulated during and after exercise;
4. understand the non-specific and specific defence mechanisms and outline the principles of immune response and vaccination.

Application Deadline **20 Jul 2020, 12:00 n.n.**

Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

Schedule 

Session	Date	Time	Venue
1	31 Jul	10:00 a.m. – 1:00 p.m.	Online Lecture
2	7 Aug		
3	14 Aug		
4	21 Aug	10:00 a.m. – 1:00 p.m.	Online Lecture

Enquiries  For enquiries, please contact us at 3940 0101 after language selection, press "1".