



SISP 1110

Fundamentals of Neuroscience

Course Description

This course is offered under the program of the HKUST Summer Institute for Secondary School Students by the School of Science. In this course, we will explore the structure and function of the nervous system, neural communication, and how our nervous system enables us to perceive and respond to the outside world. We will also take a closer look at several neurological disorders, through which we will learn about the history and development of neuroscience research.

Topics

- Our Neural Systems
- Neural Communication
- Movement
- Senses: Smell & Taste
- Senses: Vision & Hearing
- Senses: Touch & Pain
- Recent Advances in Neuroscience

Grading Scheme

- Quizzes x2 (20%)
- Written Assignment (10%)
- Final Examination (70%)

[Topics and grading schemes are subject to change as deemed appropriate. Students will receive information and guidelines in class on how they will be assessed for the course.]

Teaching Mode

The course will be delivered face-to-face.

Attendance Requirement

Attendance is expected and required. The minimum attendance required is 70%. Attendance for the assessment activities [e.g. group presentation and final exam] is mandatory.

Instructor(s) Profile

Dr. Philip LAM

Dr. Lam received his Ph.D. in Molecular Pharmacology and Toxicology from the University of Southern California, USA. He is currently a lecturer at the Division of Life Science, HKUST. He has years of substantial teaching experience. He is familiar with various new pedagogical strategies such as e-learning and blended learning. Dr. Lam believes that it is of utmost importance to provide students with a learning environment that nurtures critical thinking.