



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

1. Our Neural Systems
2. Neural Communication
3. Movement
4. Senses: Smell & Taste
5. Senses: Vision & Hearing
6. Senses: Touch & Pain
7. 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.]

Attendance Requirement

Class attendance is expected and required. The minimum attendance required is 70%.

Teaching mode

The course will be conducted via Zoom.

Instructors

Dr. Melody LEUNG

Dr. Leung is a lecturer at the Division of Life Science, HKUST. She has years of experience in teaching undergraduate classes at various levels. She is good at creating interactive classroom and adopts student-centered inquiry-based teaching approach to inspire students learning for themselves.