Medical Physics and Biomedical Engineering

Physics of the Human Body (MPHY0005)

Description
The module introduces the foundational physics needed to understand the function (and malfunction) of some of the major systems of the human body, linking physics to physiology and healthcare. You will learn: 1. How the body maintains an optimal internal environment by comparing human auto regulation with other examples of control in science and engineering; 2. To examine thermoregulation of the human body in some detail and see examples of how relatively simple physical principles can be used to explain aspects of human physiology; 3. About human vision and hearing systems; 4. About pressure, volume and flow in blood vessels and the brain; 5. To perform an optics experiment to develop experimental skills and identify limitations; 6. To design and perform a physiology experiment to consider the implications of human variability in experimental design and analysis;

Key information

Year: 2020/21
Credit value: 15 (150 study hours)
Delivery: UG L5, Campus-based
Reading List: View on UCL website
Tutor: Dr Terence Leung
Term: Term 2
Timetable: View on UCL website

Assessment

- Written examination (main exam period): 70.0%
- Coursework: 20.0%
- Written examination (departmentally managed): 5.0%
- Report: 5.0%

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

Disclaimer: All information correct as of March 2020. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.