IBSc in Physiology & Pharmacology

OVERVIEW

Physiology and Pharmacology study how living organisms work and how chemical compounds, endogenous and exogenous, interact with them to affect their function.

They are the basic sciences underlying modern medicine and research aimed at understanding human health and disease.

Programme Structure

To reach 4 cu total
- **PHAR taught units** must add up to at least 1 cu
- **PHOL taught units** must add up to at least 1 cu

**Compulsory Modules:**
- **PHAR3003** Molecular Pharmacology (0.5 cu)
  - or **PHOL3004** Cell Signalling in Health and Disease (1 cu)
  AND
- **Lab Research Project** (PHAR3010 or PHOL3904, 1.5 cu)
  - or **Library Research Project** (PHAR3009 or PHOL3902, 1 cu)

**Optional Modules:**
- **Pharmacology**
  - **PHAR3001** (1 cu) or **PHAR3002** (0.5 cu) Neuropharmacology
  - **PHAR3004** Receptor Mechanisms (0.5 cu)
  - **PHAR3005** (1 cu) or **PHAR3031** (0.5 cu) Immunopharmacology
  - **PHAR3006** Drug Design and Development (0.5 cu)
  - **PHAR3008** Psychopharmacology (0.5 cu)
  - **PHAR3011** (0.5 cu) Synaptic Pharmacology
- **Physiology**
  - **PHOL3001** Respiration (0.5 cu)
  - **PHOL3002** The Heart and Circulation (1 cu)
  - **PHOL3006** Cellular Basis of Brain Function (1 cu)
  - **PHOL3011** Control of Cardiovascular Function (0.5 cu)
  - **PHOL3016** Cell Polarity and Disease (1 cu)
- **Other NPP**
  - **NEUR3003** Metabolic Neuroscience (0.5 cu)
  - **NEUR3018** Neural Basis of Learning and Motivation (0.5 cu)
  - **NEUR3031** Control of Movement (0.5 cu)
  - **NEUR3041** Neural Computation (0.5 cu)
  - **NEUR3045** (0.5 cu) Visual Neuroscience
  - **ANAT3029** (1 cu) or **ANAT3028** (0.5 cu) Neurodegenerative Disease
  - **ANAT3042** Pain (0.5 cu, can count either as **PHOL** or as **PHAR**)
  - **ANAT3050** Advanced Molecular Cell Biology (0.5 cu)
  - **ANAT3051** Neuroaesthetics (0.5 cu)
  - **CELL3105** Clocks, Sleep and Biological Time (0.5 cu)
- **Courses in other FLS Departments**
  (see: https://www.ucl.ac.uk/biosciences/study/undergraduate/physphama-ibsc)