

INTERCALATED BSC (HONS) (PHYSIOLOGY)

Overview

NFQ Level 8, Major Award

Students who entered the University through the College of Medicine and Health may apply to take programmes in Science leading to the award of a BSc (Hons) Degree in one of Anatomy or Neuroscience (<https://ucc-ie-public.courseleaf.com/programmes/bschan/>), Biochemistry (<https://ucc-ie-public.courseleaf.com/programmes/bschbc/>), Pathology (Medical Microbiology) (<https://ucc-ie-public.courseleaf.com/programmes/bschpm/>), Pharmacology (<https://ucc-ie-public.courseleaf.com/programmes/bschpt/>) or Physiology.

While pursuing any of the above programmes a student will not be permitted to pursue any other programmes (medical or otherwise).

With the approval of the Head of the Department of **Physiology** and the College of Medicine and Health, a student who has passed the Third University Examination in Medicine and who has attained an aggregate mark of at least 60% in their Second Year may proceed to a BSc (Hons) Degree by (a) satisfactorily pursuing modules in Physiology to the value of 60 credits as determined by the Head of the Department and (b) reaching the required standard in the BSc (Hons) Degree Examination in Physiology. It is also strongly recommended that students have attained a mark of at least 60% in special study module PL2025 during the Second University Examination in Medicine.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

Programme Requirements

Code	Title	Credits
Students take 60 credits as follows:		
<i>Core Modules</i>		
PL4020	Research Project ¹	20
PL4006	Regulation of Epithelial Transport	5
PL4007	Gene Targeting Tools for Physiology	5
PL4009	Applied Cardiovascular and Respiratory Physiology	5
PL4010	Control of Breathing in Health and Disease	5
PL4011	Learning and Memory	5
PL4012	Physiology of Calcium Signalling	5
PL4013	Physiology and Pathophysiology of Vascular Endothelium	5
PL4015	Microbiome and Physiology	5
Total Credits		60

¹ Substantial research project which is presented as a thesis.

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Learning Outcomes

Programme Learning Outcomes for BSc Intercalated (Physiology) (NFQ Level 8, Major Award)

On successful completion of this programme, students should be able to:

- Describe the different physiological systems and how they integrate to determine the function of the organism as a whole;
- Explain with suitable molecular, cellular and integrated physiology examples, the concept of homeostasis and how its disruption can lead to the disease state;
- Select techniques suitable for the evaluation of physiological processes at the molecular, cellular, organ and system level, in an integrated manner that can be used to increase our knowledge of both normal and pathophysiological states;
- Critically evaluate research publications. Formulate research ideas and hypotheses, and design and conduct experiments with appropriate controls;
- Interpret laboratory findings, perform appropriate statistical analysis and clearly communicate research findings to scientific and lay audiences, both orally and in writing, in the context of the research project and course work.