

BSc Honours Physiology

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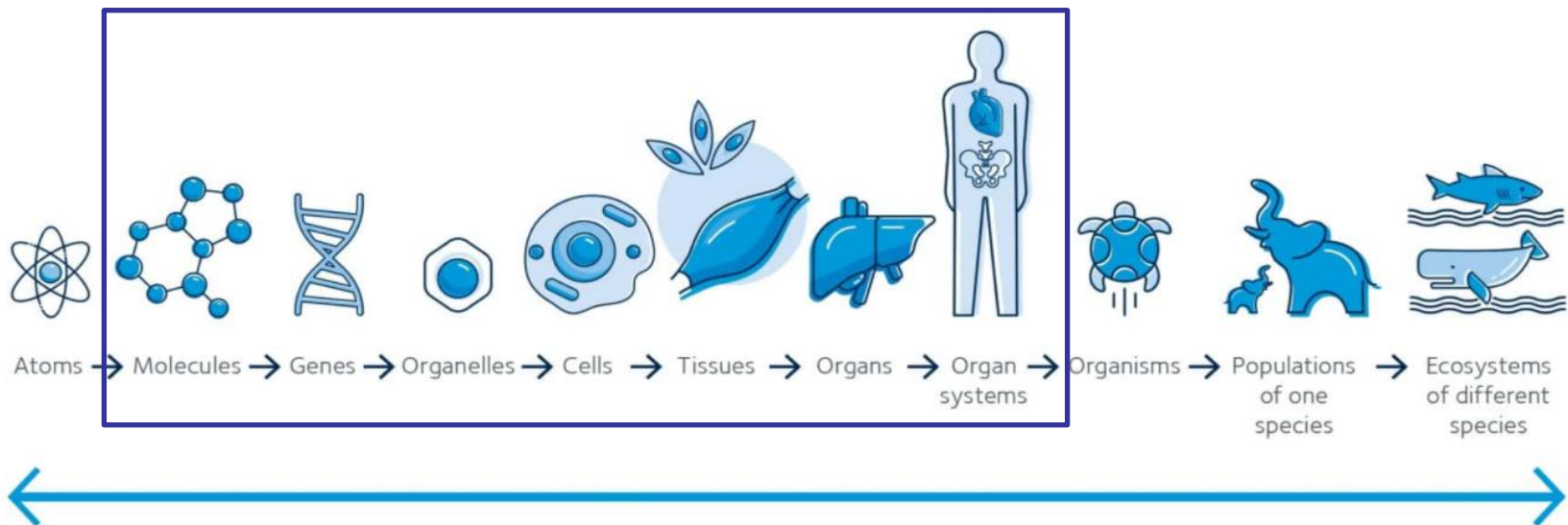
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What is Physiology

- » Students learn how cells interact in tissues and organs, and how organs function and interact to allow our bodies to function
- » Physiologists are at forefront of medical research
- » Pathophysiology of disease



Physiology is the science of life

What Career Options do I have?

- » Biomedical Research
 - Academia / Industry
- » Clinical trials
- » Pharmaceutical sales and advisory roles (MSL)
- » Science writing
- » Various hospital roles (Perfusionist, Cardiac, Resp.)
- » Graduate Entry Medicine
- » Graduate Entry Veterinary Medicine
- » Masters in Physiology / Physiotherapy / Anatomy / Nutrition and Dietetics
- » PhD
- » Teaching



Programme Overview

Stage 2

PHYS20040: Cell
and Tissue
Physiology

PHYS20030:
Organ and
Systems
Physiology

Stage 3

Increased Focus
on Organ
Physiology.

Introduction to
lab skills and
increased critical
thinking.

Stage 4

Increased Focus
on Research*
and Literature.

Stage 3: Structure - Core Modules

Autumn

PHYS30300

Immunophysiology

PHYS30010

Cardiovascular
Physiology

PHYS30090 Digestion
and Excretion

STAT20070 Data
Modelling for Science

Spring

PHYS30020

Respiratory Physiology

PHYS30040

Endocrine Physiology

PHYS30190

Experimental
Physiology

PHYS30270

The Brain and Motor
Control

Summer

Internship (option)

SSRA (option)

Credits go towards
stage 4



Stage 4: Structure

Autumn

PHYS30180 Physiological Genomics.

PHYS40170 Fundamentals of Physiological Research.

PHYS40270

Physiology Journal Club.

Options:

Exercise Physiology.

Brain Disorders.

Adaptation to Hypoxia.

Spring

PHYS40060 Physiology Research Project (20 credits).

Options:

Physiology of Disease.

Haemostasis and

Thrombosis.

Summer

Graduation!



Learning Environment: The Staff

- » Fifteen active research groups within Physiology
 - Pulmonary physiology/disease
 - Cardiovascular physiology/disease
 - Platelet biology
 - Neurophysiology/disease
 - Gastrointestinal physiology/disease
 - Oxygen sensing
 - Carbon dioxide sensing
 - Diabetes complications
 - Inflammation, tissue remodelling and fibrosis



Registration issues: Physiology@ucd.ie

(need to make appointment)

Queries:

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