

HUMAN ANATOMY & PHYSIOLOGY

FACULTY OF SCIENCE



SCAN ME

The major in Human Physiology focuses on the structure and function of the human body. The two-year course covers and integrates the traditional scientific disciplines of anatomy, cell biology and physiology. During the second year it includes a study of homeostasis, the cardiovascular, respiratory, digestive, excretory, reproductive and locomotor systems as well as the regulatory endocrine and nervous systems. In the third year there is a strong emphasis on applied and exercise physiology during the first semester and a focus on the neurosciences in the second semester.

The Human Physiology major aims to provide an understanding of how the human body functions, how we respond to external and internal stimuli, including exercise, how we learn new behaviour and how we change our behaviour. A series of practical and tutorial sessions are designed to develop technical skills, using computers to record and analyse muscle and/or brain function, as well as improving oral and writing skills.

WHO WOULD BE INTERESTED IN THIS MAJOR?

This course would be of interest to students with a desire to find out how the human body and brain function to promote and maintain life during daily activity and participation in physical activity.

WHAT COURSES WILL YOU TAKE?

The compulsory courses listed below must be included in your selection of courses for a major in Human Physiology.

1ST YEAR LEVEL COURSES

- Cell Biology
- Biological Diversity
- Chemistry 1000
- Mathematics 1004
- Bionumeracy
- 1000-level Physics highly recommended

2ND YEAR LEVEL COURSES

- Integrated Anatomical and Physiological Sciences Part A
- Integrated Anatomical and Physiological Sciences Part B
- One full senior Science course

3RD YEAR LEVEL COURSES

- Applied Human Biology
- Human Neurosciences

CAREER OPPORTUNITIES FOR GRADUATES

Ideally, an academic career, with the student going on to do BSc(Med)(Hons), MSc and PhD in any of the science courses offered in the Department of Human Biology, namely Applied Anatomy, Biological Anthropology, Cell Biology, Exercise Science, Neurophysiology and Physiology, eventually to become a researcher or to lecture, carry out research and publish research findings. Armed with an in-depth knowledge of human structure and function, a student with a major in physiology would also be able to pursue further studies in other medical fields, such as human genetics, medical biochemistry, immunology and pharmacology. Students who do not wish to pursue an academic path, could find employment as research assistants in health science laboratories or in industry. Knowledge of human integrated physiology and the practical training obtained during the course will help to prepare a student for a position in companies that provide medical services, as a sales representative or consultant.

MINIMUM ADMISSION AND SUBJECT REQUIREMENTS

FPS of 550 (but admission only guaranteed at FPS above 660)
Mathematics 70% & Physical Science 60%
NBT in Mathematics, AL & QL to be written

