



University of Pretoria Yearbook 2025

Physics for biology students 131 (PHY 131)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 16.00

NQF Level 05

Programmes BEd (Senior Phase and Further Education and Training Teaching)

BSc Computer Science

Bachelor of Dental Surgery [BChD]

Bachelor of Medicine and Surgery [MBChB]

Bachelor of Physiotherapy [BPhysio]

Bachelor of Sports Science [BSportSci]

BSc (Food Management) *Culinary Science*

BSc (Food Management) *Nutrition*

BSc Biochemistry

BSc Biotechnology

BSc Ecology

BSc Entomology

BSc Food Science

BSc Genetics

BSc Human Genetics

BSc Human Physiology

BSc Human Physiology, Genetics and Psychology

BSc Medical Sciences

BSc Microbiology

BSc Plant Science

BSc specialising in Ecology 4-year programme

BSc specialising in Human Physiology 4-year programme

BSc Zoology

BScAgric Animal Science



[BScAgric Applied Plant and Soil Sciences](#)

[BScAgric Plant Pathology](#)

[BScAgric specialising in Applied Plant and Soil Sciences 5-year programme](#)

[BScAgric specialising in Plant Pathology 5-year programme](#)

[Bachelor of Veterinary Sciences \[BVSc\]](#)

Service modules

Faculty of Education

Faculty of Health Sciences

Faculty of Veterinary Science

Prerequisites

A candidate must have passed Mathematics with at least 60% in the Grade 12 examination

Contact time

1 discussion class per week, 1 practical per week, 4 lectures per week

Language of tuition

Module is presented in English

Department

Physics

Period of presentation Semester 1

Module content

Note: PHY 131 is aimed at students who will not continue with physics. PHY 131 cannot be used as a substitute for PHY 114.

Units, vectors, one dimensional kinematics, dynamics, work, equilibrium, sound, liquids, heat, thermodynamic processes, electric potential and capacitance, direct current and alternating current, optics, modern physics, radioactivity.

General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.

University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-



Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.