

University of Pretoria Yearbook 2025

Introduction to microbiology 161 (MBY 161)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 8.00

NQF Level 05

Programmes BSc in Computer Science

BSc in Information Technology in Information and Knowledge Systems

BSc in Biochemistry

BSc in Biotechnology

BSc in Chemistry

BSc in Chemistry 4-year programme

BSc in Ecology

BSc in Ecology 4-year programme

BSc in Entomology

BSc in Food Management specialising in Culinary Science

BSc in Food Management specialising in Nutrition

BSc in Food Science

BSc in Genetics

BSc in Geography option Geography and Environmental Science

BSc in Human Genetics

BSc in Human Physiology

BSc in Human Physiology 4-year programme

BSc in Medical Sciences

BSc in Microbiology

BSc in Plant Science

BSc in Zoology

BScAgric in Animal Science

BScAgric in Applied Plant and Soil Sciences

BScAgric in Applied Plant and Soil Sciences 5-year programme

BScAgric in Plant Pathology

BScAgric in Plant Pathology 5-year programme

Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	No prerequisites.
Contact time	2 lectures per week, fortnightly tutorials
Language of tuition	Module is presented in English
Department	Biochemistry, Genetics and Microbiology
Period of presentation	Semester 2

Module content

The module will introduce the student to the field of Microbiology. Basic Microbiological aspects that will be covered include introduction into the diversity of the microbial world (bacteria, archaea, eukaryotic microorganisms and viruses), basic principles of cell structure and function, microbial nutrition and microbial growth and growth control. Applications in Microbiology will be illustrated by specific examples i.e. bioremediation, animal-microbial symbiosis, plant-microbial symbiosis and the use of microorganisms in industrial microbiology. Wastewater treatment, microbial diseases and food will be introduced using specific examples.

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.