



# 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 Computer Science*

*BSc Information and Knowledge Systems*

*BSc (Food Management) Culinary Science*

*BSc (Food Management) Nutrition*

*BSc (Geography) Geography and Environmental Science*

*BSc Biochemistry*

*BSc Biotechnology*

*BSc Chemistry*

*BSc Ecology*

*BSc Entomology*

*BSc Food Science*

*BSc Genetics*

*BSc Human Genetics*

*BSc Human Physiology*

*BSc Medical Sciences*

*BSc Microbiology*

*BSc Plant Science*

*BSc specialising in Chemistry 4-year programme*

*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

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