



# University of Pretoria Yearbook 2023

## Introduction to microbiology 161 (MBY 161)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Natural and Agricultural Sciences
<b>Module credits</b>	8.00
<b>NQF Level</b>	05
<b>Programmes</b>	BSc (Computer Science) BSc (Information and Knowledge Systems) BSc (Biochemistry) BSc (Biological Sciences) BSc (Biotechnology) BSc (Chemistry) BSc (Ecology) BSc (Entomology) BSc (Food Management) <i>Culinary Science</i> BSc (Food Management) <i>Nutrition</i> BSc (Food Science) BSc (Genetics) BSc (Geography) <i>Geography and Environmental Science</i> BSc (Human Genetics) BSc (Human Physiology) BSc (Medical Sciences) BSc (Microbiology) BSc (Plant Science) BSc (Zoology) BSc extended programme - Biological and Agricultural Sciences BScAgric (Animal Science) BScAgric (Applied Plant and Soil Sciences) BScAgric (Plant Pathology)
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology



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<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.

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