

University of Pretoria Yearbook 2020

Introduction to microbiology 161 (MBY 161)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	8.00
Programmes	BSc Computer Science BSc Information and Knowledge Systems BSc Biochemistry BSc Biological Sciences BSc Biotechnology BSc Chemistry BSc Culinary Science BSc Ecology BSc Entomology BSc Extended programme - Biological and Agricultural Sciences BSc Food Science BSc Genetics BSc Human Genetics BSc Human Physiology BSc Medical Sciences BSc Microbiology BSc Nutrition BSc Plant Science BSc Zoology BScAgric Animal Science BScAgric Applied Plant and Soil Sciences BScAgric Plant Pathology
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.

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