

University of Pretoria Yearbook 2019

Bacteriology 251 (MBY 251)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 12.00

Programmes [BSc Information and Knowledge Systems](#)

[BSc Biochemistry](#)

[BSc Biotechnology](#)

[BSc Chemistry](#)

[BSc Culinary Science](#)

[BSc Ecology](#)

[BSc Entomology](#)

[BSc Food Science](#)

[BSc Genetics](#)

[BSc Human Genetics](#)

[BSc Human Physiology](#)

[BSc Medical Sciences](#)

[BSc Microbiology](#)

[BSc Plant Science](#)

[BSc Zoology](#)

[BScAgric Plant Pathology](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Prerequisites MBY 161 GS

Contact time fortnightly practicals, 2 lectures per week

Language of tuition Module is presented in English

Department Biochemistry, Genetics and Microbiology

Period of presentation Semester 1

Module content

Growth, replication and survival of bacteria, Energy sources, harvesting from light versus oxidation, regulation of catabolic pathways, chemotaxis. Nitrogen metabolism, iron-scavenging. Alternative electron acceptors: denitrification, sulphate reduction, methanogenesis. Bacterial evolution, systematic and genomics. Biodiversity; bacteria occurring in the natural environment (soil, water and air), associated with humans, animals, plants, and those of importance in foods and in the water industry.

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