

# University of Pretoria Yearbook 2021

## Bacteriology 251 (MBY 251)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	12.00
<b>NQF Level</b>	06
<b>Programmes</b>	<a href="#">BSc Information and Knowledge Systems</a>
	<a href="#">BSc Biochemistry</a>
	<a href="#">BSc Biotechnology</a>
	<a href="#">BSc Chemistry</a>
	<a href="#">BSc Culinary Science</a>
	<a href="#">BSc Ecology</a>
	<a href="#">BSc Entomology</a>
	<a href="#">BSc Food Science</a>
	<a href="#">BSc Genetics</a>
	<a href="#">BSc Geography and Environmental Science</a>
	<a href="#">BSc Human Genetics</a>
	<a href="#">BSc Human Physiology</a>
	<a href="#">BSc Medical Sciences</a>
	<a href="#">BSc Microbiology</a>
	<a href="#">BSc Plant Science</a>
	<a href="#">BSc Zoology</a>
	<a href="#">BScAgric Plant Pathology</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b>	MBY 161 GS
<b>Contact time</b>	2 lectures per week, fortnightly practicals
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biochemistry, Genetics and Microbiology
<b>Period of presentation</b>	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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