

University of Pretoria Yearbook 2022

Bacterial genetics 355 (MBY 355)

Qualification Undergraduate

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

Module credits 18.00

NQF Level 07

Programmes [BSc \(Biochemistry\)](#)

[BSc \(Biotechnology\)](#)

[BSc \(Genetics\)](#)

[BSc \(Human Genetics\)](#)

[BSc \(Human Physiology\)](#)

[BSc \(Microbiology\)](#)

[BSc \(Plant Science\)](#)

Prerequisites MBY 251 GS, GTS 251 GS and GTS 261 GS.

Contact time 1 practical/tutorial per week, 2 lectures per week

Language of tuition Module is presented in English

Department Biochemistry, Genetics and Microbiology

Period of presentation Semester 1

Module content

DNA replication and replication control. DNA recombination. DNA damage and repair. Genetics of bacteriophages, plasmids and transposons. Bacterial gene expression control at the transcriptional, translational and post-translational levels. Global regulation and compartmentalisation.

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