

# University of Pretoria Yearbook 2017

## Bacterial genetics 355 (MBY 355)

|                               |                                                                                                                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Qualification</b>          | Undergraduate                                                                                                                                                                                                                                                |
| <b>Faculty</b>                | <a href="#">Faculty of Natural and Agricultural Sciences</a>                                                                                                                                                                                                 |
| <b>Module credits</b>         | 18.00                                                                                                                                                                                                                                                        |
| <b>Programmes</b>             | <a href="#">BSc Biochemistry</a><br><a href="#">BSc Biotechnology</a><br><a href="#">BSc Genetics</a><br><a href="#">BSc Human Genetics</a><br><a href="#">BSc Human Physiology</a><br><a href="#">BSc Microbiology</a><br><a href="#">BSc Plant Science</a> |
| <b>Prerequisites</b>          | BCM 251, CMY 127, GTS 251, GTS 261 and MBY 251                                                                                                                                                                                                               |
| <b>Contact time</b>           | 1 practical per week, 2 lectures per week                                                                                                                                                                                                                    |
| <b>Language of tuition</b>    | Module is presented in English                                                                                                                                                                                                                               |
| <b>Academic organisation</b>  | Microbiology and Plant Path                                                                                                                                                                                                                                  |
| <b>Period of presentation</b> | 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.

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.