

# University of Pretoria Yearbook 2019

## Mycology 261 (MBY 261)

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| <b>Qualification</b>          | Undergraduate                                                        |
| <b>Faculty</b>                | Faculty of Natural and Agricultural Sciences                         |
| <b>Module credits</b>         | 12.00                                                                |
| <b>Programmes</b>             | BSc Information and Knowledge Systems                                |
|                               | BSc Biochemistry                                                     |
|                               | BSc Biotechnology                                                    |
|                               | BSc Chemistry                                                        |
|                               | 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                                             |
| <b>Service modules</b>        | Faculty of Engineering, Built Environment and Information Technology |
| <b>Prerequisites</b>          | MBY 161 GS                                                           |
| <b>Contact time</b>           | Fortnightly practicals/tutorials, 2 lectures per week                |
| <b>Language of tuition</b>    | Module is presented in English                                       |
| <b>Department</b>             | Biochemistry, Genetics and Microbiology                              |
| <b>Period of presentation</b> | Semester 2                                                           |

### Module content

Organisation and molecular architecture of fungal thalli, chemistry of the fungal cell. Chemical and physiological requirements for growth and nutrient acquisition. Mating and meiosis; spore development; spore dormancy, dispersal and germination. Fungi as saprobes in soil, air, plant, aquatic and marine ecosystems; role of fungi as decomposers and in the deterioration of materials; fungi as predators and parasites; mycoses, mycetisms and mycotoxicoses; fungi as symbionts of plants, insects and animals. Applications of fungi in biotechnology.

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