

# University of Pretoria Yearbook 2016

## Molecular genetics 251 (GTS 251)

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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 Technology Information and Knowledge Systems         |
|                               | BSc Biochemistry   |
|                               | BSc Biological Sciences  |
|                               | BSc Biotechnology  |
|                               | BSc Ecology  |
|                               | BSc Entomology   |
|                               | BSc Food Science   |
|                               | BSc Genetics   |
|                               | BSc Human Genetics   |
|                               | BSc Human Physiology   |
|                               | BSc Human Physiology, Genetics and Psychology                        |
|                               | BSc Medical Sciences   |
|                               | BSc Microbiology   |
|                               | BSc Plant Science  |
|                               | BSc Zoology  |
|                               | BScAgric Animal Science  |
|                               | BScAgric Option: Applied Plant and Soil Sciences                     |
|                               | BScAgric Plant Pathology   |
| <b>Service modules</b>        | Faculty of Engineering, Built Environment and Information Technology |
|                               | Faculty of Education   |
| <b>Prerequisites</b>          | GTS 161 GS   |
| <b>Contact time</b>           | fortnightly practicals, 2 lectures per week                          |
| <b>Language of tuition</b>    | English  |
| <b>Academic organisation</b>  | Genetics   |
| <b>Period of presentation</b> | Semester 1   |

## Module content

Chemical nature of DNA. Replication transcription, RNA processing and translation. Control of gene expression in prokaryotes and eukaryotes. Recombinant DNA technology and its applications in gene analysis and manipulation.

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