



# University of Pretoria Yearbook 2019

## Introductory genetics 161 (GTS 161)

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| <b>Qualification</b>  | Undergraduate   |
| <b>Faculty</b>        | Faculty of Natural and Agricultural Sciences  |
| <b>Module credits</b> | 8.00  |
| <b>Programmes</b>     | BEd Senior Phase and Further Education and Training Teaching<br>BSc Information and Knowledge Systems<br>BSc Biochemistry<br>BSc Biological Sciences<br>BSc Biotechnology<br>BSc Chemistry<br>BSc Ecology<br>BSc Entomology<br>BSc Extended programme - Biological and Agricultural Sciences<br>BSc Food Science<br>BSc Genetics<br>BSc Human Genetics<br>BSc Human Physiology<br>BSc Human Physiology, Genetics and Psychology<br>BSc Medical Sciences<br>BSc Microbiology<br>BSc Nutrition<br>BSc Physics<br>BSc Plant Science<br>BSc Zoology<br>BScAgric Agricultural Economics and Agribusiness Management<br>BScAgric Animal Science<br>BScAgric Applied Plant and Soil Sciences<br>BScAgric Plant Pathology<br>BVSc |



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| <b>Service modules</b>        | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Veterinary Science |
| <b>Prerequisites</b>          | MLB 111 GS  |
| <b>Contact time</b>           | 2 lectures per week, fortnightly tutorials  |
| <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

Chromosomes and cell division. Principles of Mendelian inheritance: locus and alleles, dominance interactions, extensions and modifications of basic principles.. Probability studies. Sex determination and sex linked traits. Pedigree analysis. Genetic linkage and chromosome mapping. Chromosome variation.

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