



# University of Pretoria Yearbook 2016

## Genetic diversity and evolution 261 (GTS 261)

<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 Animal Science: Pasture 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 251 GS
<b>Contact time</b>	2 lectures per week, fortnightly practicals
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Genetics



**Period of presentation** Semester 2

**Module content**

Chromosome structure and transposable elements. Mutation and DNA repair. Genomics and proteomics. Organelle genomes. Introduction to genetic analysis of populations: allele and genotypic frequencies, Hardy Weinberg Law, its extensions and implications for different mating systems. Introduction to quantitative and evolutionary genetics.

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