

University of Pretoria Yearbook 2016

Genetic diversity and evolution 261 (GTS 261)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	12.00
Programmes	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
Service modules	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Education
Prerequisites	GTS 251 GS
Contact time	2 lectures per week, fortnightly practicals
Language of tuition	English
Academic organisation	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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