



# University of Pretoria Yearbook 2019

## Population and evolutionary genetics 367 (GTS 367)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	18.00
<b>Programmes</b>	<a href="#">BSc Information and Knowledge Systems</a> <a href="#">BSc Biochemistry</a> <a href="#">BSc Biotechnology</a> <a href="#">BSc Genetics</a> <a href="#">BSc Human Genetics</a> <a href="#">BSc Human Physiology</a> <a href="#">BSc Medical Sciences</a> <a href="#">BSc Microbiology</a> <a href="#">BSc Plant Science</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b>	GTS 251 and GTS 261 or permission from HOD.
<b>Contact time</b>	2 lectures per week, 1 practical/tutorial 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

Genetic and phenotypic variation. Organisation of genetic variation. Random genetic drift. Mutation and the neutral theory. Darwinian selection. Inbreeding, population subdivision and migration. Evolutionary quantitative genetics. Population genomics. Human population genetics. Levels of selection and individuality. Arms races and irreversibility. Complexity. Applied evolution.

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