



# University of Pretoria Yearbook 2018

## Population and evolutionary genetics 367 (GTS 367)

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| <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><br><a href="#">BSc Biochemistry</a><br><a href="#">BSc Biotechnology</a><br><a href="#">BSc Genetics</a><br><a href="#">BSc Human Genetics</a><br><a href="#">BSc Human Physiology</a><br><a href="#">BSc Medical Sciences</a><br><a href="#">BSc Microbiology</a><br><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   |
| <b>Contact time</b>           | 1 practical per week, 2 lectures per week   |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Genetics  |
| <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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