

# University of Pretoria Yearbook 2019

## Fluid mechanics in geological media 725 (GTX 725)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	15.00
<b>Programmes</b>	<a href="#">BScHons Engineering and Environmental Geology Engineering Geology</a> <a href="#">BScHons Engineering and Environmental Geology Hydrogeology</a>
<b>Prerequisites</b>	GLY 363 and GLY 265
<b>Contact time</b>	2 lectures per week for 3 weeks, 2 practicals per week (3 weeks)
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Geology
<b>Period of presentation</b>	Year

### Module content

Statics and dynamics of fluids, including water, aqueous phase liquids (saline water), non-aqueous phase liquids (petroleum hydrocarbons), gases (atmospheric air) and man-made fluids (gout) through natural and man-made porous media (eg soil, rock, concrete). Single phase flow and multiphase flow; saturated and unsaturated flow. Quantification of hydrological parameters. South African hydrostratigraphy. Drainage and dewatering.

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