

# University of Pretoria Yearbook 2018

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

**Qualification** Postgraduate

**Faculty** [Faculty of Natural and Agricultural Sciences](#)

**Module credits** 15.00

**Programmes** [BScHons Engineering and Environmental Geology Engineering Geology](#)  
[BScHons Engineering and Environmental Geology Hydrogeology](#)

**Prerequisites** GLY 363 and GLY 265

**Contact time** 2 lectures per week for 3 weeks, 2 practicals per week (3 weeks)

**Language of tuition** Module is presented in English

**Department** Geology

**Period of presentation** 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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