



---

# University of Pretoria Yearbook 2020

---

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

**Qualification** Postgraduate

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

**Module credits** 20.00

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

**Prerequisites** No prerequisites.

**Contact time** 2 practicals per week (4 weeks), 4 lectures per week

**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.

---

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.