

University of Pretoria Yearbook 2020

Petrology and geochemistry 701 (GLY 701)

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| Qualification | Postgraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 20.00 |
| Programmes | BScHons Geology |
| Prerequisites | No prerequisites. |
| Contact time | 2 lectures per week, 2 practicals per week |
| Language of tuition | Module is presented in English |
| Department | Geology |
| Period of presentation | Year |

Module content

Interpretation and application of advanced petrogenetic tools: the Rb/Sr and Sm/Nd isotopic systems, quantitative interpretation of binary and ternary phase diagrams, Harker type diagrams, assimilation-fractional crystallisation – partial melting. Geothermometers and geobarometers, PT-t loops. Abundance of elements in the crust, crust-forming models. Hydrous geochemistry. Recognition of geochemical anomalies. Analytical methods and the treatment of geochemical data. A one-week field trip to the Bushveld Complex.

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