



University of Pretoria Yearbook 2017

Igneous petrology 261 (GLY 261)

Qualification Undergraduate

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

Module content Classification and nomenclature of igneous rocks. The nature of silicate melts; physical and chemical factors influencing crystallisation and textures of igneous rocks. Phase diagrams, fractional crystallisation and partial melting. Trace elements and isotopes, and their use in petrogenetic studies. Global distribution of magmatism and its origin. Mid-oceanic ridges, active continental margins, intraplate magmatism.

Module credits 12.00

Programmes [BSc Engineering and Environmental Geology](#)

[BSc Geology](#)

Prerequisites CMY 117, CMY 127, GLY 155, GLY 163, WTW 158 and PHY 114

Contact time 4 lectures per week, 2 practicals per week

Language of tuition Module is presented in English

Academic organisation Geology

Period of presentation Quarter 3

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