

University of Pretoria Yearbook 2017

Igneous petrology 261 (GLY 261)

Qualification Undergraduate

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

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

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.

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.