

# BACCALAUREUS TECHNOLOGIAE: GEOLOGY

## Qualification code: BTGE03 - NQF Level 7

Campus where offered: Arcadia Campus

### Important notification to new applicants:

Students who intend to enrol for this qualification should take note that no new applications will be accepted as from 2020. Potential students are advised to consult the University's website for possible new qualifications which are aligned with the newly-implemented Higher Education Qualification Sub-Framework.

## REMARKS

- a. *Admission requirement(s):*  
A National Diploma: Geology or an NQF Level 6 bachelor's degree in Geology from a South African university.
- Holders of any other equivalent South African or international qualifications may also be considered, but will have to apply about six months in advance for the recognition of such qualifications. Candidates will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA) with their application forms for admission. The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required. Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. *Selection criteria:*  
Selection is based on an assessment by a departmental selection panel.
- c. *Minimum duration:*  
One year.
- d. *Presentation:*  
Block-mode classes. This qualification is presented as a package. The Department reserves the right to limit or alter the selection and clustering of subjects; for example, in the case of uneconomical class groups.
- e. *Intake for the qualification:*  
January only.
- f. *Exclusion and readmission:*  
See Chapter 2 of Students' Rules and Regulations.
- g. *Recognition of Prior Learning (RPL), equivalence and status:*  
See Chapter 30 of Students' Rules and Regulations.
- h. *Subject credits:*  
Subject credits are shown in brackets after each subject.

## CURRICULUM

### FIRST SEMESTER

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
ENG401T	Engineering Geology IV	(0,175)	Engineering Geology III
HGE401T	Hydrogeology IV	(0,175)	Hydrogeology III
TOTAL CREDITS FOR THE SEMESTER:		0,350	



**SECOND SEMESTER**

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
BMN121C	Business Management I	(0,175)	
GTH401T	Geotechnology IV (offered in both semesters)	(0,300)	
GTH401R	Geotechnology IV (re-registration) (offered in both semesters)	(0,000)	
MEG401T	Mining and Exploration Geology IV	(0,175)	Mining and Exploration Geology III
TOTAL CREDITS FOR THE SEMESTER:		0,650	
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>	

**SUBJECT/MODULE INFORMATION (OVERVIEW OF SYLLABUS)**

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular subject/module. On 01 August 2017, the syllabus content was defined as follows:

**B**

**BUSINESS MANAGEMENT I (BMN121C)** **1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Environmental, Water and Earth Sciences)*  
Management principles. Principles of financial management. Labour relations. Environmental management. Resources management and mineral economy. Entrepreneurial skills. (Total tuition time: ± 60 hours)

**E**

**ENGINEERING GEOLOGY IV (ENG401T)** **1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Environmental, Water and Earth Sciences)*  
Case studies. Exploration techniques for engineering materials. Core logging. Geomechanics. Engineering geophysics. Seminars and self-study. (Total tuition time: ± 77 hours)

**G**

**GEOTECHNOLOGY IV (GTH401T/R)** **PROJECT ASSESSMENT**  
*(Subject custodian: Department of Environmental, Water and Earth Sciences)*  
Research project and report. (Total tuition time: ± 120 hours)

**H**

**HYDROGEOLOGY IV (HGE401T)** **1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Environmental, Water and Earth Sciences)*  
Advanced hydrochemistry. Analysis of the appearance and movement of groundwater. Seminars and self-study. (Total tuition time: ± 60 hours)

**M**

**MINING AND EXPLORATION GEOLOGY IV (MEG401T)** **1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Environmental, Water and Earth Sciences)*  
Ore resources calculations and financial evaluation of resources. (Total tuition time: ± 120 hours)

