

BACCALAUREUS TECHNOLOGIAE: ENVIRONMENTAL SCIENCES

Qualification code: BTEV02 - NQF Level 7

Campus where offered: Arcadia Campus (block-mode classes)
Last year of new intake: 2019
Teach-out (phase-out) date: 31 December 2021

Students registered for this qualification should complete their studies according to the teach-out date prescribed for the qualification, subject to the stipulations of Regulation 3.1.11 and 3.1.13 in the Students' Rules and Regulations.

Information on phased-out programmes can be obtained from the TUT website, www.tut.ac.za.

CURRICULUM

Consult the 2019 Faculty Prospectus for the full contents of the qualification.

YEAR SUBJECTS

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
PJN410T	Project: Environmental Technology IV	(0,200)	
PJN410R	Project: Environmental Technology IV (re-registration)	(0,000)	
plus four of the following subjects:			
EMG400T	Environmental Management IV	(0,200)	Environmental Management III
ENC400T	Environmental Chemistry IV	(0,200)	Environmental Chemistry III
ENV400T	Environmental Geohydrology IV	(0,200)	
ERE400T	Environmental Rehabilitation IV	(0,200)	
ERS410T	Environmental Resources IV	(0,200)	
GTH400T	Geotechnology IV	(0,200)	
IMA401T	Integrated Catchment Management IV (second-semester subject)	(0,200)	
WQM411T	Water Quality Management IV (first-semester subject)	(0,200)	
TOTAL CREDITS FOR THE QUALIFICATION:		1,000	

SUBJECT 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. At time of publication, the syllabus content was defined as follows:

E

ENVIRONMENTAL CHEMISTRY IV (ENC400T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Environmental, Water and Earth Sciences)

Green chemistry. Environmentally friendly syntheses. Alternative chemical processes. (Total tuition time: ± 36 hours)

ENVIRONMENTAL GEOHYDROLOGY IV (ENV400T) **1 X 3-HOUR PAPER**
(Subject custodian: Department of Environmental, Water and Earth Sciences)

Groundwater modelling. Management of groundwater problems. (Total tuition time: ± 48 hours)

ENVIRONMENTAL MANAGEMENT IV (EMG400T) **1 X 3-HOUR PAPER**
(*Subject custodian: Department of Environmental, Water and Earth Sciences*)
Environmental impact study. Sustainable development. Environmental accounting. Life cycle assessment. (Total tuition time: ± 32 hours)

ENVIRONMENTAL REHABILITATION IV (ERE400T) **1 X 3-HOUR PAPER**
(*Subject custodian: Department of Environmental, Water and Earth Sciences*)
General overview of resources in the mining sector. The impact of the activities on the environment. Rehabilitation methods. (Total tuition time: ± 45 hours)

ENVIRONMENTAL RESOURCES IV (ERS410T) **1 X 3-HOUR PAPER**
(*Subject custodian: Department of Environmental, Water and Earth Sciences*)
Industrial ecology. Protected areas. Waste management. Risk management. (Total tuition time: ± 45 hours)

G

GEOTECHNOLOGY IV (GTH400T) **CONTINUOUS ASSESSMENT**
(*Subject custodian: Department of Environmental, Water and Earth Sciences*)
Project and report. (Total tuition time: not available)

I

INTEGRATED CATCHMENT MANAGEMENT IV (IMA401T) **1 X 3-HOUR PAPER**
(*Subject custodian: Department of Environmental, Water and Earth Sciences*)
Diffuse pollution. Catchment management studies. Institutional arrangements. Mining waste management. (Total tuition time: ± 24 hours)

P

PROJECT: ENVIRONMENTAL TECHNOLOGY IV (PJN410T/R) **PROJECT ASSESSMENT**
(*Subject custodian: Department of Environmental, Water and Earth Sciences*)
Research methodology. Students plan and implement an applied environmental project. A final report has to be submitted. (Total tuition time: not available)

W

WATER QUALITY MANAGEMENT IV (WQM411T) **1 X 3-HOUR PAPER**
(*Subject custodian: Department of Environmental, Water and Earth Sciences*)
Policies and guidelines. Resource-directed measures. Source-directed measures. Waste treatment technologies. (Total tuition time: ± 24 hours)