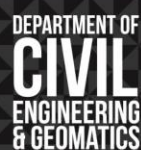




CAREER INFORMATION 2021

BACHELOR OF THE BUILT ENVIRONMENT IN GEOMATICS



01 JAN - 31 DEC 2021



NQF 7

SAQA ID: 101432

Bachelor of the Built Environment in Geomatics (BBE Geomatics)

Location: Steve Biko Campus (S6 Level 3)

Description of the Programme

The programme will train competent, responsible and accountable surveyors who can be registered as professional surveyors. They will be qualified to work independently, perform advanced surveying skills and manage a survey practice. The need exists for the training of specialists in the field of engineering surveying to provide for the academic requirements as set out by the South African Geomatics Council so that candidates can register as Engineering Surveying Technologists and to produce qualified entrepreneurs in the surveying field who can contribute positively to the development of the South African economy. The duration of this programme is 3 years full-time study.

The programmes will prepare students for further post graduate studies and research.

Career opportunities

Employment opportunities within the private sector are: Land Surveying firms, Engineering Surveying firms, Mining companies, Hydrographic companies, surveying engineering consultants and contractors. Opportunities also exist in the public sector, with municipalities: quasi-government and government departments such as: Eskom, Transnet, Department of Transport, Water Affairs, and Department of Rural Development and Land Affairs.

Entry Requirements

School leaving applicants who wish to enrol for the programme must apply through the CAO system by no later than 30 September of the previous year. The number of students enrolled in the programme is determined by the University and departmental growth policies and a ranking system is used to determine the number of candidates as required.

Entry Requirements BBE (Geomatics)

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE (VOCATIONAL) (NCV)	
NSC DEGREE ENTRY		SENIOR CERTIFICATE (SC)			NATIONAL CERTIFICATE VOCATIONAL (NCV) – LEVEL 4	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	Compulsory Subjects	Mark
English	4	English	E	C	English	60%
					Life Orientation	60%
Mathematics	4	Mathematics	E	C	Mathematics	70%
Physical Science	4	Physical Science	E	C	Physical Science	70%
					In addition, two other additional vocational subjects at a minimum of 70%.	

NB:

1. NSC Mathematical Literacy will not be accepted as a substitute for the subject NSC Mathematics
2. The exit certificate of the candidate must qualify the candidate for degree study at an institution of higher learning.
3. Applicants with a NSC will be ranked according to the sum of their scores for Mathematics and Physical Science, subject to a minimum combined score of 120%.
4. Prospective applicants may also present an NQF level 6 Diploma in Engineering for entry into the degree programme. A possibility of transfer of credits for cognitive previous studies would be considered dependent on the discipline and nature of the Diploma being presented.

5. This Department only considers First – Fourth choice CAO applicants.

ADMISSION REQUIREMENTS BASED UPON WORK EXPERIENCE, AGE AND MATURITY

For admission to entry level DEGREE studies:

A person may, subject to such requirements as the Senate may determine, be admitted if such a person is in possession of a National Senior Certificate, Senior Certificate or an equivalent certificate, but lacks the minimum requirements for admission to the degree provided that:

- The person shall have reached the age of 23 in the first year of registration and shall have at least: three years' appropriate work experience; and/or capacity for the proposed instructional programme, which shall be assessed by a Senate-approved admission assessment comprising of a DUT Standardised Assessment Test for Access and Placement (SATAP), Academic Literacies (AL) & English for Academic Purposes (EAP) (2,5 hours) and/or an appropriate subject or programme specific written assessment designed and marked by the relevant Department; and the person has obtained
- A conditional certificate of exemption from the Matriculation Board (when in possession of the Senior Certificate (SC)); OR has met
- The requirements for Senate discretionary admission (when in possession of the NSC or equivalent), where Senate is satisfied the applicant has shown sufficient academic ability to ensure success, and that the person's standard of communication skills, and/or work experience are such that the person, in the opinion of the Senate, should be able to complete the proposed instructional programme successfully.
- The person's application for admission in terms of with work experience, age and maturity is approved prior to registration.

Applicants intending to gain admission through work experience, age and maturity must submit their applications at least four months before commencement of the academic year.

NB: For semester programmes there is a single registration for semester 1 and semester 2 at the beginning of each academic year.

First Year Curriculum

Name of Module	Subject Code	HEQSF Level	SAQA Credits
Semester 1			
Engineering Mathematics 1A	EMTA101	5	12
Cornerstone 101	CSTN101	5	12
Sociology of Work 101	SCLW101	6	8
Geomatics 1A	GMTA101	5	16
Drawing 1A	DRWN101	5	12
Engineering Physics 1A	EPHA101	5	12
Semester 2			
Engineering Mathematics 1B	EMTB101	5	12
Geomatics 1B	GMTB101	6	16
Survey Drawing 1B	SVDR101	5	12
Environmental Science 1B	EVSC101	5	12
Technical Literacy	TCLT101	5	8
Engineering Physics 1B	EPHB101	5	12
TOTAL CREDITS SEMESTER 1&2			144

Second Year Curriculum

Semester 3			
Engineering Mathematics 2A	EMTM201	6	12
Photogrammetry 2A	PHGR201	6	12
Settlement History 101	STHS102)	6	8
Basic Engineering Management 2A	BEMN201	6	8
Control Surveying 2A	CTSU201	6	20
Geographic Information Systems 2A	GISS201	6	12
Semester 4			
Legal Principles 2B	LPPL201	6	12
Engineering Surveying 2B	ENSV201	7	24
Map Projections and Coordinate Systems 2B	MPSC201	6	12

Digital Photogrammetry and Remote Sensing 2B	DPRS20I	7	12
Statistics 2B	STST20I	6	12
TOTAL CREDITS SEMESTER 3&4			144

Third Year Curriculum

Semester 5			
Geodesy 3A	GDSY30I	7	16
Cadastral Surveying 3A	CDSV30I	7	12
Theory of Errors and Network Adjustment 3A	TENA30I	7	20
Geographic Information System 3A	GISS30I	7	12
Computer Applications 3A	CPTA30I	7	12
Town and Regional Planning: Layout & Design 3A	TRLD30I	6	12
Semester 6			
Project Management	PMAN30I	7	8
The Global Environment	GENV10I	6	8
Survey Project 3B	SVPJ30I	7	32
TOTAL CREDITS SEMESTER 5&6			132

NB: The course structure and requisite modules are subject to alteration.

Application

Applicants who wish to enrol for the programme must apply through the CAO system by no later than 30 November of the previous year.

Application Forms

Contact the **Central Applications Office (CAO)**

Address letters to:

Central Applications Office
Private Bag X06
Dalbridge,
4014

Tel: (031) 2684444

Fax: (031) 2684422

OR

Apply Online: <http://www.cao.za>

CAO Code: DU-D-BBE

Closing date for applications: 30 November 2020

For Further Information

Contact the Department of Civil Engineering and Geomatics

Steve Biko Campus (S8 Level 3)

Durban University of Technology

P O Box 1334

DURBAN, 4000

Tel: (031) 3732224

Email: pauline@dut.ac.za

This leaflet is for information purposes only and is not binding on the Durban University of Technology.