

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.

Compulsory Subjects	NSC	SC		NCV Level 4
	Rating	HG	SG	
English	4	E	C	60%
Mathematics	4	E	C	70%
Physical Science	4	E	C	70%
Life Orientation				60%
				+ 2 vocational subs

The subject NSC Mathematical Literacy will not be accepted as a substitute for the subject NSC Mathematics.

The exit certificate of the candidate must qualify the candidate for degree study at an institution of higher learning.

Applicants will be ranked according to the sum of their scores for Mathematics and Physical Science, subject to a minimum combined score of 120%.

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 nature of the Diploma being presented.

NOTE: G7 (3) 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.

This Department only considers First – Fourth choice CAO applicants.

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

First Year Curriculum

Engineering Mathematics 1A	(EMTA101)
Cornerstone 101	(CSTN101)
Sociology of Work 101	(SCLW101)
Geomatics 1A	(GMTA101)
Drawing 1A	(DRWN101)
Engineering Physics 1A	(EPHA101)

Semester Two

Engineering Mathematics 1B	(EMTB101)
Geomatics 1B	(GMTB101)
Survey Drawing 1B	(SVD101)
Environmental Science 1B	(EVSC101)
Technical Literacy	(TCLT101)
Engineering Physics 1B	(EPHB101)

Second Year Curriculum

Semester One

Engineering Mathematics 2A	(EMTM201)
Photogrammetry 2A	(PHGR201)
Settlement History 101	(STHS102)
Basic Engineering Management 2A	(BEMN201)
Control Surveying 2A	(CTSU201)
Geographic Information Systems 2A	(GISS201)

Semester Two

Legal Principles 2B	(LPPL201)
Engineering Surveying 2B	(ENSV201)
Map Projections and Coordinate Systems 2B	(MPSC201)
Digital Photogrammetry and Remote Sensing 2B	(DPRS201)
Statistics 2B	(STST201)

Third Year Curriculum

First Semester

Geodesy 3A	(GDSY301)
Cadastral Surveying 3A	(CDSV301)
Theory of Errors and Network Adjustment 3A	(TENA301)
Geographic Information System 3A	(GISS301)
Computer Applications 3A	(CPTA301)
Town and Regional Planning: Layout & Design 3A	(TRLD301)

Second Semester

Project Management	(PMAN301)
The Global Environment	(GENV101)
Survey Project 3B	(SVPJ301)

Closing date for applications: 30 September 2019

CAO Code: DU-D-BBE

For Further Information

Department of Civil Engineering and Geomatics

Durban University of Technology

P O Box 1334

DURBAN 4000

Tel: (031) 3732224

Application Forms

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

CAO code: DU-D-BBE

Address letters to:

Central Applications Office

Private Bag X06

Dalbridge 4014

Tel: (031) 2684444

Fax: (031) 2684422

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



CAREER INFORMATION

BACHELOR OF THE BUILT ENVIRONMENT IN

GEOMATICS

1 JANUARY - 31 DECEMBER 2020

FACULTY OF
ENGINEERING
& THE BUILT
ENVIRONMENT

DEPARTMENT OF
**CIVIL
ENGINEERING
& GEOMATICS**

2020

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