



BACHELOR OF THE BUILT ENVIRONMENT IN GEOMATICS



FACULTY OF
ENGINEERING
& THE BUILT
ENVIRONMENT

DEPARTMENT OF
CIVIL ENGINEERING
& GEOMATICS

01 JAN - 31 DEC 2024

Bachelor of the Built Environment in Geomatics (BBE Geomatics) NQF Level: 7

SAQA ID: 101432

Qualification Code: BBGMTI

Location: Steve Biko Campus (S6 Level 3)

Description of the Programme

The purpose of the Bachelor of the Built Environment in Geomatics BBE (Geomatics) is for students to assimilate the necessary knowledge, understanding, abilities and skills in geomatics. This combined with a period of post qualification mentored work experience will enable them to become competent practicing Geomatics technologists (engineering surveyors), able to apply geomatics knowledge to make judgment, work independently and responsibly. To provide students, with the preparation required for careers in geomatics, the ability to make a contribution to the economy and national development, the educational base required for registration with the South African Geomatics Council (SAGC) as a Geomatics technologist (engineering surveyor) and entry to NQF level 8 programmes, i.e. Honours and Masters programmes. To contribute to the critical mass of engineering surveyors educated specifically for the world of work and research, and who also play a pivotal role in the infrastructure development of our country.

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.

Explanation of Points scale:

SENIOR CERTIFICATE(SC)		
SYMBOL	HIGHER GRADE	STANDARD GRADE
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2
F	3	1
A	8	6
B	7	5

NATIONAL SENIOR CERTIFICATE(NSC)

%	LEVEL	POINTS
90-100	7	8
80-89%	7	7
70-79%	6	6
60-69%	5	5

50-59%	4	4
40-49%	3	3
30-39%	2	2
20-29%	1	1

MINIMUM ADMISSION REQUIREMENTS

GENERAL ADMISSION REQUIREMENTS

A person will only be considered for registration for an instructional programme approved by the Institution's Senate if the person complies with:

- The minimum admission requirements stated in DUT general handbook (refer to DUT website for general handbook).
- Institutional faculty, departmental and/or instructional programme specific rules; and

MINIMUM ADMISSION REQUIREMENTS IN TERMS OF THE HIGHER EDUCATION QUALIFICATIONS SUB-FRAMEWORK (HEQSF)

G7 rule: For Bachelor's Degree:

"a National Senior Certificate (NSC) as certified by the Council for General and Further Education and Training (Umalusi), with a minimum achievement rating of 3 for English and a minimum achievement rating of 4 in four NSC 20-credit subjects chosen from the NSC designated subject list"

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)			(NCV) – LEVEL 4	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	Compulsory Subjects	Mark
English	4	English	E	C	English	60%
Mathematics	4	Mathematics	E	C	Mathematics	70%
Physical Science	4	Physical Science	E	C	Physical Science	70%
In addition: TWO recognized NSC 20 credit subjects as state above	4					
					Life Orientation	60%
					In addition, TWO other additional vocational subjects at a minimum of 70%.	

NB:
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 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 100%.
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.
This Department only considers First – Fourth choice CAO applicants.

OR

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.

(d) 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.

Tuition Fees

To assist you with your planning, the **2023** fees have been indicated. An increase for next year to accommodate the inflation rate can be expected.

Please Note: DUT cannot be held liable for the fees in this brochure as the **2024** fees are not yet final

First Year Curriculum

Name of Module	Subject Code	HEQSF Level	SAQA Credits	2023 Fees
Semester One				
Engineering Mathematics IA	EMTA101	5	12	R4400.00
Cornerstone 101	CSTN101	5	12	R3580.00
Sociology of Work 101	SCLW101	6	8	R3030.00
Geomatics IA	GMTA101	5	16	R5500.00
Drawing IA	DRWN101	5	12	R5860.00
Engineering Physics IA	EPHA101	5	12	R4400.00
TOTAL				R26770.00
Semester Two				
Engineering Mathematics IB	EMTB101	5	12	R4400.00
Geomatics IB	GMTB101	6	16	R5500.00
Survey Drawing IB	SVDR101	5	12	R6220.00
Environmental Science I	EVSC101	5	12	R4410.00
Technical Literacy	TCLT101	5	8	R3030.00
Engineering Physics IB	EPHB101	5	12	R4400.00
TOTAL CREDITS SEMESTER 1&2			144	
TOTAL				R27960.00
Second Year Curriculum				
Semester Three				
Engineering Mathematics IIA	EMTA201	6	12	R4400.00
Photogrammetry II	PHGR201	6	12	R6800.00
Settlement History 101	STHS102)	6	8	R3030.00
Basic Engineering Management II	BEMN201	6	8	R3030.00
Control Surveying II	CTSU201	6	20	R7080.00
Geographic Information Systems II	GISS201	6	12	R5160.00
TOTAL				R29500.00
Semester Four				
Legal Principles II	LPPL201	6	12	R2470.00
Engineering Surveying II	ENSV201	7	24	R8880.00
Map Projections and Coordinate Systems II	MPSC201	6	12	R4610.00
Digital Photogrammetry and Remote Sensing II	DPRS201	7	12	R6800.00
Statistics II	STST201	6	12	R4410.00
TOTAL CREDITS SEMESTER 3&4			144	
TOTAL				R27170.00
Third Year Curriculum				
Semester Five				
Geodesy III	GDSY301	7	16	R5360.00
Cadastral Surveying III	CDSV301	7	12	R4960.00
Theory of Errors and Network Adjustment III	TENA301	7	20	R4410.00
Geographic Information System III	GISS301	7	12	R6050.00
Computer Applications III	CPTA301	7	12	R2940.00
Town and Regional Planning: Layout & Design III	TRLD301	6	12	R4410.00
TOTAL				R28130.00
Semester Six				
Project Management	PMAN301	7	8	R3490.00
The Global Environment	GENV101	6	8	R2240.00

Survey Project III	SVPJ301	7	32	R13060.00
TOTAL CREDITS SEMESTER 5&6			132	
TOTAL				R18790.00

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 September 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 September 2023

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

Financial Aid

For Financial Aid application for a DUT programme please apply online at www.nsfas.org.za or call the NSFAS call centre on 0860 067 327.

For an explanation on how to fill out the application form, please go to www.nsfas.org.za or contact the call centre on the number above.

Please note that completing a form does not guarantee Financial Aid. For further assistance, please consult the Department of Financial Aid and Scholarships on (031)373 2931/2557/2054.

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