

## HIGHER CERTIFICATE IN APPLIED SCIENCES



FACULTY OF APPLIED SCIENCES

DEPARTMENT OF MATHEMATICS

01 JAN - 31 DEC 2024

### Higher Certificate in Applied Sciences

**NQF Level: 5**

**SAQA ID: 117922**

**Qualification Code: HCIASI**

**Location: Steve Biko Campus (S 3 LI, S Blocks)**

### Description of the Programme

The Higher Certificate Applied Sciences is a 128 credit, NQF Level 5 qualification designed to address shortcomings in performance in Mathematics and Physical Science at high school. Applicants to the Faculties of Engineering and the Built Environment, and Applied Sciences, who meet all of the admission requirements except Mathematics and Physical Science will be considered for admission to the HC. The programme offers modules in Mathematics, Physics and Statistics designed to address a lack of proficiency in Mathematics and Physical Science while simultaneously exploring elective modules in Engineering and the Built Environment and in Applied Sciences.

### 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

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 Higher Certificate:**

“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.”

**Entry Requirements (Higher Certificate in Applied Sciences)**

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE VOCATIONAL (NCV)	
NSC HIGHER CERTIFICATE ENTRY		SENIOR CERTIFICATE (SC)			(NCV) LEVEL 4	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	NCV level 4 with statutory requirements for a diploma entrance with the following subjects:	Mark
English	4	English	E	C	English	50%
Mathematics	3	Mathematics	E	C	Mathematics	50%
Physical Science	3	Physical Science	E	C	Physical Science	50%
<b>OR</b>						
English	4					
Technical Maths	3					
Technical Science	3					
<b>OR</b>						
N4 with Engineering Maths and Engineering Science with 50% together with English Level 4						

**Areas of Specialization**

Science, Technology, Engineering & Mathematics

**Duration**

This programme is offered on a one-year full time basis.

**Tuition Fees**

To assist you with your planning, the **2023** fees have been indicated.

**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 the Module	Subject Code	HEQSF Level	SAQA Credits	2022 Fees
<b>Semester One</b>				
Mathematics A	MTTA101	5	16	R4390.00
Physics A	PSSA101	5	16	R3680.00
Introduction to Statistics	ISTSI01	5	12	R3290.00
Elementary Didactics for Tutoring	EDDT101	5	8	R2740.00
Cornerstone 101	CSTNI02		12	R3580.00
<b>Total Credits</b>			<b>64</b>	
<b>TOTAL</b>				<b>R17680.00</b>
<b>Semester Two</b>				
Mathematics B	MTTB102	5	16	R3670.00
Physics B	PSSB102	5	16	R3670.00
Communications for Science	COSCI01	5	8	R2740.00
<b>Total Credits</b>			<b>40</b>	
<b>TOTAL</b>				<b>R10080.00</b>
<b>Option 1:</b>				
Statistics for Applied Science	STASI02	5	12	R3290.00
Chemistry	CHEM102	5	12	-
<b>Total Credits</b>			<b>24</b>	
<b>TOTAL</b>				<b>R3290.00</b>
<b>Or Option 2:</b>				
Introduction to Engineering and the Built Environment	IEBE102	5	12	R3290.00
Computer Aided Drawing and Design	CADD102	5	12	R3290.00
<b>Total Credits</b>			<b>24</b>	

<b>TOTAL</b>				<b>R6580.00</b>
<b>Or Option 3:</b>				
Introduction to Shipboard Operations	ISOP102	5	12	R3290.00
Navigation – Electronic Navigation Systems	NENSI02	5	12	R2200.00
<b>Total Credits</b>			<b>24</b>	
<b>TOTAL</b>				<b>R5490.00</b>

## 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.

## Applications Forms

Contact the Central Applications Office (CAO)

### Address letters to:

Central Applications Office  
Private Bag X06  
Dalbridge  
4014  
Tel: (031) 268 4444  
Fax: (031)268 4422

### OR

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

**CAO codes:** DUDHAS

**Closing Date for Application: 30 September 2023**

## For Further Information

Department of Mathematics  
Steve Biko Campus (S 3 LI, S Blocks)  
Steve Biko Road  
Contacts:  
Darren Lortan (HoD) 031 373 2297  
Diana Day (Secretary) 031 373 2075  
Email address: – [HCAAppSci@dut.ac.za](mailto:HCAAppSci@dut.ac.za)

## Financial Aid

For Financial Aid application for a DUT programme please apply online at [www.nsfas.org.za](http://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](http://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 leaflet is for information purposes only and is not binding on the Durban University of Technology.***