

# BACHELOR OF APPLIED SCIENCE IN TEXTILE SCIENCE



01 JAN - 31 DEC 2026

## Bachelor of Applied Science in Textile Science

**NQF Level: 7**

**SAQA ID: 111358**

**Qualification Code: BASTXI**

**Location: Steve Biko Campus (S5 & S6 Level 4)**

### Description of the Programme

The three-year qualification in Textile Science is designed to prepare individuals for a wide range of specialist career opportunities in textile industries such as manufacture of textile fibres, yarns, fabrics, and the colouration and finishing thereof, as well as major fashion retail stores, government sectors and research institutions. This is based on a foundation in mathematics, chemistry and physics.

During the first two years of study, students learn a broad range of manufacturing routes including the manufacture of the main fibre types, the principle yarn manufacturing processes, and the knitting, nonwoven, and woven fabric manufacturing routes, the chemistry and processing associated with the principle dyeing, printing, and finishing stages of manufacture.

In the final year students specialize in either the 'wet' or the 'dry' side of the industry.

The Dry side covers a range of specialized manufacturing processes, including the principle yarn manufacturing methods and woven fabric manufacturing routes and product engineering.

The Wet side covers the chemistry and processing associated with the dyeing, printing, and finishing stages of manufacture, as well as colour physics and polymer chemistry.

In addition, this qualification includes other important areas of knowledge, such as textile testing, product development, and some management content.

The program is designed to prepare students with a broad range of textile knowledge, to provide entrance into the extremely diverse local textile manufacturing operations. Graduates of this qualification would be able to display scientific knowledge and technical qualities appropriate to the manufacturing environment and demonstrate environmental responsibilities.

### Working Conditions

The textile industry includes some state-of-the-art local manufacturing units with challenging opportunities for textile scientists in the fields of fibre processing and fabric manufacture. A Textile Science graduate may work in a textile mill or factory, a laboratory or for a retailer.

### Personal Qualities Required

Textile Science involves teamwork; therefore, one needs to be able to work and co-operate with colleagues.

A scientific background is important as well as an aptitude for design work. It is necessary to have a working knowledge and understanding of the basics of textiles and clothing.

### Career opportunities

Excellent opportunities exist in various divisions within textile manufacturing and associated companies such as planning production, fabric development, marketing, and quality control departments as well as major fashion retail stores and government sectors. Promotion routes after further study and work experience may in due course lead to senior appointments in production and marketing areas of the manufacturing industry, Clothing industry, Salesperson and Advisor.

### 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 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 (BAS in Textile Science)

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE (VOCATIONAL) (NCV)	
NSC DEGREE ENTRY		Senior Certificate (SC) with Matric Exemption			(NCV) Level 4	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	Compulsory Subjects	Mark
English	4	English	D	B	English	50%
Mathematics	4	Mathematics	D	B	Mathematics	60%
Physical Science	4	Physical Science	D	B	Physical Science	60%
In addition: <b>TWO</b> recognized NSC 20 credit subject as per G7 rule (As stated above)	4					

#### Additional Entry Requirements:

Applicants will also go through an interview process to determine their admission success and potential.

OR

#### Admission Requirement 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 inclusive of the date of scheduling writing a requisite eligibility assessment.**

**Tuition Fees:** To assist you with your planning, the **2025** fees have been indicated.

**Please Note:** DUT cannot be held liable for the fees in this brochure as the **2026** fees are not yet final.

### Bachelor of Applied Science in Textile Science

#### First Year Curriculum

Name of the Module	Subject Code	HEQSF Level	SAQA Credits	2025 Fees
<b>Semester One I</b>				
Cornerstone I01	CSTN101	5	12	R3910.00
Chemistry I	CHEM101	5	12	R4510.00
Physics I	PHYS101	5	16	R5640.00
Textile Industry I	TEIN101	5	12	R5410.00
Information & Comm Tech Literacy & Skills	ICTL101	5	8	R2430.00
<b>Total</b>				<b>R21900.00</b>
<b>Semester Two</b>				
Weaving Preparation Theory I	WPTH101	6	16	R6920.00
Mathematics I	MATC101	5	16	R6020.00
Textile Material Science I	TMSC101	6	12	R5410.00
Yarn Spinning Theory I	YSTH101	6	16	R6920.00
<b>Total</b>				<b>R25270.00</b>
<b>TOTAL CREDITS SEMESTER I &amp; 2</b>			<b>120</b>	

#### Second Year Curriculum

<b>Semester One</b>				
Values in the Workplace (IGE)	VWKPI01	5	8	R2600.00
Product Engineering II	PROE201	6	16	R5770.00
Weaving Principles II	WERP201	6	16	R5770.00
Knitting Principles II	KNPR201	6	12	R4510.00
Textile Colouration Principles II	TCPR201	6	16	R5770.00
<b>Total</b>				<b>R24420.00</b>
<b>Semester Two</b>				
Applied Science for Sustainable Dev (FGE)	ASSD101	6	12	R3610.00
Textile Research Techniques	TERT201	7	12	R4510.00
Introduction to Technopreneurship	ITCH101	5	8	R2270.00
Applied Science and Wellness	ASWL101	5	12	R3900.00
Textile Testing Principles II	TETP201	6	12	R4510.00
<b>Total</b>				<b>R18800.00</b>
<b>TOTAL CREDITS SEMESTER I &amp; 2</b>			<b>124</b>	

#### Third Year Curriculum

<b>Semester One</b>				
Industrial Management III	INMA301	7	12	R4510.00
Textile Testing Principles III	TTPR301	7	12	R3800.00
Non-Woven Principles III	NWPR301	7	16	R5770.00
Finishing Theory III	FITH301	7	12	R4510.00
Role of Applied Science in Society	APSS101	6	12	R3900.00
<b>Total</b>				<b>R22490.00</b>
<b>Semester Two</b>				
Production Organisation Research Project	PORP301	7	16	R5770.00
<b>Student to select either dry or wet option only.</b>				
<b>Dry Option:</b>				
Weaving Principles III	WEPR301	7	16	R5770.00
Product Engineering III	PREN301	7	16	R3720.00
Yarn Spinning Theory III	YSTH301	7	12	R4510.00
<b>Wet Option:</b>				
Colouration Theory III	COTH301	7	16	R5770.00
Chemistry & Colour Physics III	CHCP301	7	16	R5770.00
Polymer Science III	POSC301	7	12	R4510.00
<b>Total</b>				<b>R35820.00</b>
<b>TOTAL CREDITS SEMESTER I &amp; 2</b>			<b>124</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.

**CAO Online Application visit:** <http://www.cao.ac.za>

## CAO Contact Details

Central Applications Office

Private Bag X06

Dalbridge

4014

Tel: (031) 268 4444

Fax: (031) 268 4422

## CAO Code: DU-D-ATT

**Closing Date for applications: 30 September 2025**

## For Further Information

Contact the Department of Clothing and Textile Studies

Durban University of Technology

P O Box 1334

DURBAN

4000

**Tel:** (031) 373 2148 / (031) 373 2003

**Fax:** (031) 373 2876

**Email:** [reshmas@dut.ac.za](mailto:reshmas@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.