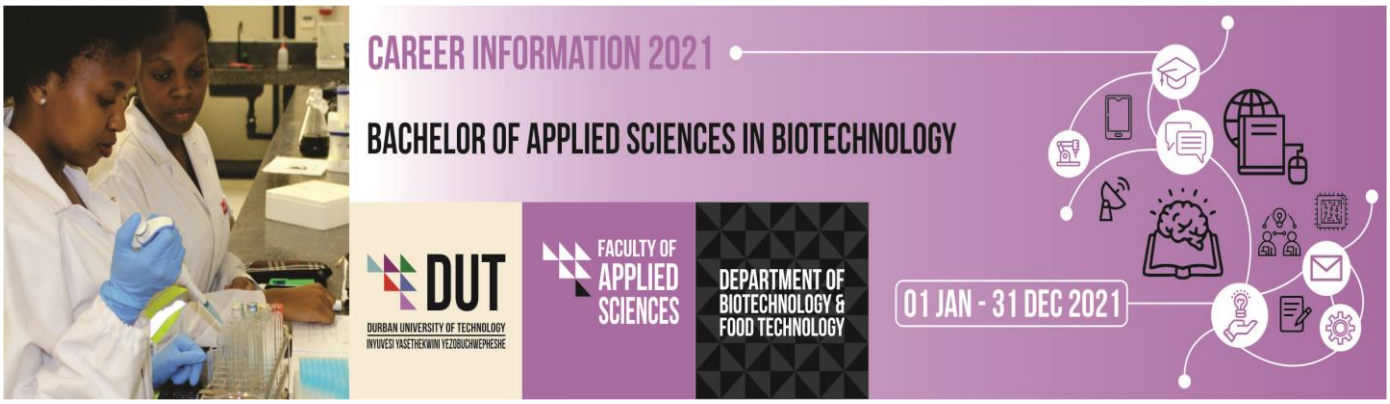

Bachelor of Applied Science in Biotechnology
NQF 7
SAQA ID: 97809

Location: Steve Biko Campus (S9, Level 1)

Description of the Programme

Biotechnology is the application of living organisms or the individual cellular components of these organisms for commercial purposes or environmental control. A person working in the field of biotechnology will have to have a working knowledge of such disciplines as biochemistry, microbiology, bioprocess engineering, genetics, molecular biology and mathematics.

The degree prepares applicants with focused knowledge, practical skills, attitudes and values necessary for the technological application of biological systems, living organisms, or derivatives thereof, to make or modify products or processes for specific use in the biotechnology workplace whilst contributing to environmental sustainability.

The undergraduate courses are designed such that graduates are well equipped to venture into industry upon completion of the first three years.

Purpose of Programme

Persons achieving this qualification will be competent to apply theoretical and practical fundamental knowledge and skills in the fields of biotechnology, microbiology and biochemistry to the relevant biotechnology industries and research institutions. Graduates may apply for registration with the South African Council for Natural Scientific Professions as Certified Natural Scientists.

Career Opportunities

Graduates may seek employment in industrial and research laboratories such as Drug and pharmaceutical research, public funded laboratories, chemicals, environmental control, water and waste management, energy, food processing and bioprocessing industries.

Explanation of Points Scale:

Symbol	Senior Certificate	
	Higher Grade	Standard Grade
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2
F	3	1

%	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

Entry Requirements (BAS in Biotechnology)

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE (VOCATIONAL) (NCV)	
NSC DEGREE ENTRY with 28 points or more (excluding Life Orientation) will be considered		Senior Certificate (SC) with Matric Exemption or equivalent Qualification Applicants with 30 or more points will be considered.			National Certificate Vocational (NCV)	
Compulsory Subjects	**NSC Rating Code**	**Compulsory Subjects**	**HG**	**SG**	**Compulsory Subjects**	**Mark**
English Home OR English (First additional)	4	English	D	B	English	50%
Mathematics	4	Mathematics	D	B	Mathematics	50%
Physical Science	4	Physical Science	D	B	Physical Science	60%
Life Science	4	Biology	D	B	Life Science or Biology	60%

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:

(a) 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

(b) A conditional certificate of exemption from the Matriculation Board (when in possession of the Senior Certificate (SC)); OR has met

(c) 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 ofwith 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 2020 fees have been indicated.

Please Note: DUT cannot be held liable for the fees in this brochure as the 2021 fees are not yet final.

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				
Name of the Module	**Subject Code**	**HEQSF Level**	**SAQA Credits**	**2020 Fees**
Semester 1				
Chemistry 1	CSRY101	5	16	R4 440
Biology 1	BIOL101	5	16	R4 440
Mathematics	MMTS101	5	12	R3 110
Cornerstone 101	CSTN101	5	12	R2 530
Total				**R14 520**
Semester 2				
Bacteriology 2	BCTY201	6	16	R4 440
Biochemistry 2	BCHS201	6	16	R4 440
Physics	PHYS104	6	12	R3 110
Mycology	MYCL101	6	12	R3 110
Institutional General Education Elective 1 (IGE 1)	ITCH101	5	8	R1 950
Total				**R17 050**
TOTAL CREDITS SEMESTER 1&2			**120**	

Second Year Curriculum				
Name of the Module	**Subject Code**	**HEQSF Level**	**SAQA Credits**	**2020 Fees**
Semester 1				
Food Microbiology 2	FMIC101	6	16	R4 440
Microbial Biochemistry 3	MCRB301	6	16	R4 440
Virology and Immunology 2	VRIM201	6	16	R4 440
Fermentation Science and Technology 2	FSCT201	7	16	R4 440
Institutional General Education Elective 2 (IGE 2)		5	8	R1 950
Total				**R19 710**
Semester 2				
Analytical Biochemistry 3	ANBC301	7	16	R4 440
Molecular Biology 3	MCLB301	7	16	R4 440
1Bacteriology 3	BCTY301	7	16	R4 440
Faculty General Education Elective (FGE 1) Role of Applied Science in Society	APSS101	5	12	R2 880
Total				**R16 200**
TOTAL CREDITS SEMESTER 1&2			**132**	

Third Year Curriculum				
Name of the Module	**Subject Code**	**HEQSF Level**	**SAQA Credits**	**2020 Fees**
Semester 1				
Industrial Biotechnology 3	INDB301	7	16	R4 440
Recombinant DNA Technology 3	RDNT301	7	16	R4 440
Plant Biotechnology	PLTB301	6	8	R2 000
Medical Biotechnology 3	MDLB301	7	8	R2 000
Research Project 1	RESP101	7	8	R2 220
Faculty General Education Elective (FGE 2)			8	R2 880
Total				**R17 980**
Semester 2				
Research Project 2	RESP201	7	16	R4 440
Food Biotechnology	FDBT101	7	8	R3 110
Bioremediation	BRMD101	7	8	R4 440
Industry Management	INDM101	7	8	R2 220
Institutional General Education Elective 3 (IGE 3)	ASSD101	6	12	R1 950
Total				**R15 100**
TOTAL CREDITS SEMESTER 1&2			**116**	

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.

For Application Forms

Contact the Central Applications Office (C.A.O)
Address letters to:
Central Applications Office Private Bag X06
Dalbridge 4014
Tel: (031) 2684444
Fax: (031) 2684422
OR
Apply online: http://www.cao.ac.za

CAO Code: DU-D-BBT

Closing Date for applications: 30 November 2020

For Further Information

Contact the Department of Biotechnology and Food Technology
Steve Biko Campus (S9, Level 1)
Durban University of Technology
P O Box 1334 DURBAN 4000
Tel: (031) 373 5321
Fax: (031) 373 3758
E-mail: philipp@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