

**CAREER INFORMATION 2021**

**BACHELOR OF APPLIED SCIENCES IN FOOD SCIENCE & TECHNOLOGY**

**DUT**  
DURBAN UNIVERSITY OF TECHNOLOGY  
INYANEZI WISITHAKHINI YEZOBONHEPHESE

**FACULTY OF APPLIED SCIENCES**

**DEPARTMENT OF BIOTECHNOLOGY & FOOD TECHNOLOGY**

**01 JAN - 31 DEC 2021**

## Bachelor of Applied Science in Food Science and Technology

### NQF 7

### SAQA ID: 101564

**Location:** Steve Biko Campus (S9, Level 1)

#### Description of the Programme

The purpose of the programme is to focus on generation of knowledge and expertise in the emerging areas of science and technology by developing state-of-the-art knowledge and skills to produce quality manpower needed within the field of food science for societal and industrial benefit. The Food Science and Technology program is driven by the development of theoretical knowledge base as well as the business needs of the food industry. It involves a flexible model where the course content would continuously evolve with the rapid changes occurring within the field of Food Science without compromising on the basis tools in the area.

In South Africa, the second largest industry is the food and beverage industry. The industry is highly diversified and embraces sectors such as dairy, meat, fish, poultry, cereals, confectionery, canned and frozen products and a vast number of fast moving consumer goods. Food technologists are responsible for maintaining and improving the quality of processed food. They strive to make better use of food resources and to find more efficient food processing methods whilst maintaining the highest level of quality standards.

Students registering for the Bachelor Degree can exit after completing a three year programme. The undergraduate programmes are designed so that graduates are well equipped to venture into the 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 food technology, microbiology, food chemistry, food process engineering and food quality assurance.

#### Personal Qualities Required

The food scientists must be practically inclined and be able to work accurately and methodically. He/she also needs to be willing to learn continually in order to keep up with modern developments. Team-work is vitally important, therefore the food technologist needs to be able to establish good relationships with fellow workers, and also be able to take responsibility and make independent decisions.

#### Career opportunities

Food Scientist work predominantly in a laboratory or industrial environment and may be employed as quality inspectors, laboratory analysts, researchers, product development scientists, packaging scientists, auditors of food factories and suppliers. Food scientists may eventually specialize in one of the following areas: quality assurance /quality control; product research and development, production management and quality management.

Promotion opportunities to supervisory or management positions are possible, provided food industry professionals are prepared to work hard, possess leadership ability and are willing to study further. Some food scientist travel extensively to inspect factories and food suppliers. Over time and night- shift work are sometimes required by those involved in food production and quality control.

#### 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 Food Science and Technology)

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE (VOCATIONAL) (NCV)	
<b>NSC DEGREE ENTRY</b> Applicants with 28 points or more (excluding Life Orientation) will be considered		Senior Certificate (SC) with Matriculation 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	
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:

- 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.

**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
<b>Semester 1</b>				
Chemistry I	CSRY101	5	16	R4 440
Biology I	BIOL101	5	16	R4 440
Mathematics	MMTS101	5	12	R3 110
Cornerstone 101	CSTN101	5	12	R2 530
Institutional General Education Elective I (IGE I)	ITCH101	5	8	R1 950

<b>Total</b>				<b>R16 470</b>
<b>Semester 2</b>				
Bacteriology 2	BCTY201	6	16	R4 440
Biochemistry 2	BCHS201	6	16	R4 440
Physics	PHYS104	6	12	R3 110
Mycology 2	MYCL201	6	12	R3 110
<b>Total</b>				<b>R15 100</b>
<b>TOTAL CREDITS SEMESTER I&amp;2</b>			<b>120</b>	

<b>Second Year Curriculum</b>				
<b>Name of the Module</b>	<b>Subject Code</b>	<b>HEQSF Level</b>	<b>SAQA Credits</b>	<b>2020 Fees</b>
<b>Semester 1</b>				
Food Science and Technology 1	FSTC101	6	12	R3 110
Food Chemistry 2	FDCH201	6	12	R3 110
Food Microbiology 3	FMCB301	6	16	R4 440
Food Quality Management	FQMN101	6	8	R2 220
Human Nutrition	HNTRI01	7	8	R2 220
<b>Total</b>				<b>R15 100</b>
<b>Semester 2</b>				
Food Science and Technology 2	FSTC201	7	16	R4 440
Molecular Biology 3	MOLB301	7	16	R4 440
Food Legislation	FDLG102	6	8	R2 220
Food Process Engineering	FPEN101	7	8	R2 220
Faculty General Education Elective (FGE 2) ) Me My World My Universe	MWMUI01	6	12	R2 730
Institutional General Education Elective 2 (IGE 2) Role of Applied Science in Society	RASS101	6	8	R1 950
<b>Total</b>				<b>R18 000</b>
<b>TOTAL CREDITS SEMESTER I&amp;2</b>			<b>120</b>	

<b>Third Year Curriculum</b>				
<b>Name of the Module</b>	<b>Subject Code</b>	<b>HEQSF Level</b>	<b>SAQA Credits</b>	<b>2020 Fees</b>
<b>Semester 1</b>				
Food Science and Technology 3	FSTC301	7	16	R4 440
Research Project 1	RESPI01	7	8	R2 220
Food Chemistry 3	FDCH301	7	16	R4 440
Food Product Development	FDPD101	7	12	R3 330
Food and Beverage Packaging	FBPK101	7	12	R3 330
Institutional General Education Elective 3 (IGE 3) Values in the Workplace	VWKP101	6	8	R1 950
<b>Total</b>				<b>R19 710</b>
<b>Semester 2</b>				
Research Project 2	RESP201		16	R4 440
Industry Management	INDMI01	7	8	R2 220
Food Safety and Toxicology	FSTX101	7	12	R3 110
Food Biotechnology	FDBT101	7	12	R3 110
Faculty General Education Elective (FGE 3) Applied Sciences for Sustainable Development	ASSD101	6	12	R2 730
<b>Total</b>				<b>R15 610</b>
<b>TOTAL CREDITS SEMESTER I&amp;2</b>			<b>132</b>	

## 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.

## 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-BFS

**Closing Date for applications:** 30 November 2020

### **For Further Information**

Department of Biotechnology and Food Technology  
Durban University of Technology  
P O Box 1334 DURBAN 4000  
Tel: (031) 373 6769  
Fax: (031) 373 3758  
Email: [ranglals@dut.ac.za](mailto:ranglals@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*