Career Information

Bachelor of Health Sciences in Clinical Technology

Location

ML Sultan Campus (B Block 2nd Floor)

Purpose of the programme

The purpose of this qualification is to develop a learner to possess the necessary knowledge, skills, attitudes and values to practice as a Clinical Technologist, as a part of a multi-disciplinary team, in one of the following specialist categories: Cardiology, Cardiovascular Perfusion, Critical Care, Nephrology, Neurology, Pulmonology or Reproductive Biology. The qualifying learner will be able to independently perform diagnostic, therapeutic and corrective procedures on patients using specialised health technology and techniques for the treatment of patho- physiological conditions in a hospital-based or in a private practice setting.

This qualification will enable the learner to engage in research and contribute to the creation of new knowledge within the field. Lastly the qualification is designed to provide learners with specific clinical technology skills and competencies that are included in management and research.

Upon completion of this qualification, the student will be able to:
Apply scientific and technological knowledge to perform and monitor diagnostic, therapeutic and quality assurance procedures in the clinical environment for the management of patients in a field of specialisation in accordance with statutory and operational requirements.

Perform therapeutic, corrective and organ system support on patients using specialised health technology to facilitate management of the patient.
Conduct research in a field of clinical technology in compliance with legislated and ethical research requirements.
Demonstrate entrepreneurship and management skills in the health care facility to ensure professional, legal and ethical service delivery.

Learning and Teaching strategies

Our teaching, learning and assessment philosophies will be grounded in the following learning theories: cognitivist, constructivist, situated–social learning, and constructive-development. Strategies for learning and teaching will include, but not be limited to, theory lectures, group work and discussions, oral presentations, practical demonstrations and simulations, self and active learning, assignments, case studies, portfolios and tutorials in order to ensure that there is constructive alignment with the teaching, learning and assessment constructs, to meet the Exit Level Outcomes (ELO).
In order to achieve the ELO as described above, the programme will be delivered full-time at DUT, with exposure to the clinical environment from first year to fourth year.

Registration with the Professional Board for Radiography and Clinical Technology

Upon registration with Durban University of Technology for the programme: Bachelor of Health Sciences in Clinical Technology, it is mandatory that a student register as a Student Clinical Technologist with the Health Professions Council of South Africa as determined in the regulations set out in the Government Gazette (No. R1608 dated 24 July 1987).

Career opportunities

A Clinical Technologist can be employed in provincial and private hospitals in either Critical Care units, Lung Function units, Renal/Dialysis units, EEG and Sleep Laboratories, Cardio-thoracic surgery, Cardiac Catheterisation Laboratory & Cardiac Clinic or Assisted Reproductive Biology Laboratories.

Entry Requirements

DEPARTMENTAL NSC REQUIREMENTS		**DEPARTMENTAL SENIOR CERTIFICATE REQUIREMENTS**		
NSC Degree Entry		**A Senior Certificate or Equivalent Qualification**		
Compulsory subjects	**NSC Rating Code**	**Compulsory Subjects**	**HG**	**SG**
English (Home)	4	English (Home)	D	B
English (1st additional)	4	English (1st additional)	D	B
Life Science	4	Biology	D	B
Physical Science	4	Physical Science	D	B
Mathematics	4	Mathematics	D	B
And two 20 credit subjects (not more than one language)	3			

NCV Level 4
With English, Maths, Physical Science, Biology and four other subjects at 70%

Table 2: Point Scores

NSC Rating	NSC Code	Senior Certificate		NC(V)
		HG	SG	
90 – 99%	8	8	6	4
80 – 89%	7	7	5	4
70 – 79%	6	6	4	4
60 – 69%	5	5	3	3
50 – 59%	4	4	2	
40 – 49%	3	3	1	
30 – 39%	2	2		
0 – 29%	1	1		

NOTE: No points are allocated for ten (10) credit subjects.
Additional Entry Requirements: Applicants are required to have industrial knowledge and will have to undergo interviews.
Students are admitted on the basis of academic merit which is assessed by converting Matriculation Certificate/NSC symbols into a point score. Applicants below that point score are not normally selected. This total may change from year to year, depending on the number and quality of application or changes in educational system of the country. Students satisfying the requirements may be required to appear before a Selection Committee and/or sit for an Aptitude Test
Calculation of matriculation Point score for senior Certificate The point score is calculated by matching each of the six best matriculation subject symbols with relevant value listed either under higher grade [HG] or standard grade [SG] and then adding the scores to give the total.

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 ad-mitted 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 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 2019 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 2020 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	2019 Fees
Semester 1	
Anatomy	R5460
Chemistry	R4350
Introduction to Clinical Technology	R1850
Issues of Gender & Society in Health Care (E)	R4430
Physiology	R3420
Personal & Professional Development I	TBC
Semester 2	
Introduction to Technopreneurship	R1710
Instrumentation and Techniques for Clinical Technology I	R3420
Cornerstone 101	R2950
Pathophysiology I	R2280
Physics 101	R2510
Physics 201	R2510
Violence and Non-violence	R1850
Total	**R17230**

Second Year Curriculum	
Semester 1	
Applied anatomy and physiology1A	R3420
Equality and Diversity	R1850
HIV and communicable diseases in kzn	R1970
Instr Tech for Clin Tech II	R3420
Pharmacology	R3640
Total	**R17 720**
Semester 2	
Clinical technology practice	R3420
Applied anatomy and physiology1B	R4100
Personal and Professional development II	TBC
Research methodology I	R3420
Professional practice and management	R1970
Pathophysiology II	R3420

Kindly contact department for elective modules & fees for Third and Fourth Year

Third Year Curriculum	
Research methodology II	R3420
Health Care Management I	R2280
Restorative Justice	R1970
Ethics and Medical Law	R4070
Personal and Professional Development III	TBC
Electives	
Specialization in Cardiology	
Specialization in Critical Care	
Specialization in Neurophysiology	
Specialization in Nephrology	
Specialization in Perfusion	
Specialization in Pulmonology	
Specialization in Reproductive Biology	

Fourth Year Curriculum	
Health Care Management Practice	R4100
Personal and Professional Development IV	TBC
Research Project a	R3420
Research Project b	R3420
Health Care Management II	R3420
Clinical Instruction	R4550
Small Business Management	R1970
Electives	
Specialization in Cardiology	
Specialization in Critical Care	
Specialization in Neurophysiology	
Specialization in Nephrology	
Specialization in Perfusion	
Specialization in Pulmonology	
Specialization in Reproductive Biology	

Closing Date for applications: 28 July 2019

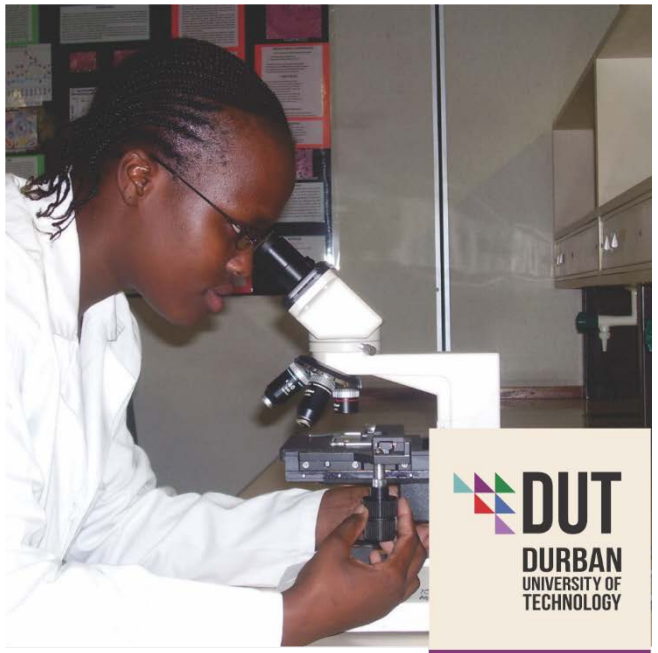
CAO Code: DU-D-DCT

FOR FURTHER INFORMATION

Department of Biomedical and Clinical Technology
Durban University of Technology
P O Box 1334 DURBAN 4000
Tel: (031) 373 5411
Fax: (031) 373 5295

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
Internet: http://www.cao.ac.za



DUT
DURBAN UNIVERSITY OF TECHNOLOGY

FACULTY OF HEALTH SCIENCES

DEPARTMENT OF BIOMEDICAL AND CLINICAL TECHNOLOGY

CAREER INFORMATION

BACHELOR OF HEALTH SCIENCES IN CLINICAL TECHNOLOGY

1 JANUARY – 31 DECEMBER 2020

2020