

CHAPTER 21**FACULTY OF HEALTH AND ENVIRONMENTAL SCIENCES**

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FACULTY OFFICER	Mr FR Mokoena, BTech (CUT)
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DEPARTMENT OF CLINICAL SCIENCES

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1. RULES OF THE FACULTY OF HEALTH AND ENVIRONMENTAL SCIENCES

The following rules are supplementary to the rules in the Calendar of the Central University of Technology, Free State (CUT).

2. HIGHER CERTIFICATE PROGRAMME OFFERED IN THE FACULTY

Higher Certificate: Dental Assisting

3. NATIONAL DIPLOMA: EXTENDED CURRICULUM PROGRAMMES (ECPS) OFFERED IN THE FACULTY

National Diploma: Biomedical Technology (ECP)
 National Diploma: Clinical Technology (ECP)
 National Diploma: Emergency Medical Care (ECP)
 National Diploma: Environmental Health (ECP)
 National Diploma: Radiography (Diagnostic) (ECP)
 National Diploma: Somatology (ECP)

4. NATIONAL DIPLOMA PROGRAMMES OFFERED IN THE FACULTY

National Diploma: Agricultural Management
 National Diploma: Biomedical Technology
 National Diploma: Clinical Technology
 National Diploma: Emergency Medical Care
 National Diploma: Environmental Health
 National Diploma: Fire Technology
 National Diploma: Radiography (Diagnostic)
 National Diploma: Somatology

5. ADVANCED DIPLOMA OFFERED IN THE FACULTY

Advanced Diploma in Agricultural Extension

6. BACCALAUREUS TECHNOLOGIAE DEGREES OFFERED IN THE FACULTY

Baccalaureus Technologiae: Agricultural Management
 Baccalaureus Technologiae: Biomedical Technology
 Baccalaureus Technologiae: Clinical Technology
 Baccalaureus Technologiae: Environmental Health
 Baccalaureus Technologiae: Radiography (Diagnostic)
 Baccalaureus Technologiae: Radiography (Therapy)
 Baccalaureus Technologiae: Somatology

7. BACHELOR DEGREE: EXTENDED CURRICULUM PROGRAMMES (ECPS) OFFERED IN THE FACULTY

Bachelor of Radiography in Diagnostics (ECP)

8. BACHELOR DEGREE OFFERED IN THE FACULTY

Bachelor of Radiography in Diagnostics

9. MAGISTER TECHNOLOGIAE DEGREES OFFERED IN THE FACULTY

Magister Technologiae: Agriculture
Magister Technologiae: Biomedical Technology
Magister Technologiae: Clinical Technology
Magister Technologiae: Environmental Health
Magister Technologiae: Radiography (Diagnostic)
Magister Technologiae: Radiography (Therapy)
Magister Technologiae: Radiography (Nuclear Medicine)
Magister Technologiae: Somatology

10. DOCTOR TECHNOLOGIAE DEGREES OFFERED IN THE FACULTY

Doctor Technologiae: Agriculture
Doctor Technologiae: Biomedical Technology
Doctor Technologiae: Clinical Technology
Doctor Technologiae: Environmental Health
Doctor Technologiae: Somatology

11. ADMISSION TO A HIGHER LEVEL OF STUDY

A student is not permitted to continue with an instructional offering at the subsequent level before successfully completing the preceding level.

In the case of semester programmes, a full-time student may not at any stage accumulate more than two minor instructional offerings being carried over from previous years of study. To progress to the subsequent level of study, the student must have passed at least two instructional offerings.

In the case of year programmes, a full-time student may not at any stage accumulate more than two instructional offerings being carried over from previous years of study.

12. ASSESSMENT

Assessment dates and course mark formulas are provided to students upon commencement of the instructional offering concerned.

A student who is absent from an assessment must submit a medical certificate to the director of the school concerned within three days after reporting back at CUT in order to qualify for a rewrite of the test. The student is responsible for arranging a date for such a re-assessment with the lecturer concerned. Course marks may not be calculated from fewer than the prescribed number of assessments. If a student fails to make arrangements to rewrite an assessment, a mark of 0 is entered into the computer.

In addition to the rules in the CUT Calendar, a student may be refused admission to an assessment if he/she has been absent from more than one practical in a learning unit.

13. ADVANCED DIPLOMA

A student enrolling at CUT initially registers for the three-year national diploma. Admission to the fourth year of study is subject to certain pre-requisites (refer to the specific learning programme). Re-entry to CUT in order to complete the advanced diploma subsequent to the

attainment of the national diploma is considered a new application. A part-time student follows the same procedure, with the exception that the duration of study differs from that applicable to full-time students.

14. BACCALAUREUS TECHNOLOGIAE DEGREE

A student enrolling at CUT initially registers for the three-year national diploma. Admission to the fourth year of study is subject to certain pre-requisites (refer to the specific learning programme). Re-entry to CUT in order to complete the Baccalaureus Technologiae degree subsequent to the attainment of the national diploma is considered a new application. A part-time student follows the same procedure, with the exception that the duration of study differs from that applicable to full-time students.

15. NATIONAL DIPLOMAS: EXTENDED CURRICULUM PROGRAMMES

15.1 NATIONAL DIPLOMA: BIOMEDICAL TECHNOLOGY (ECP) HXNDBA

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 388
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 4 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANA00FP				Anatomy	12
PHY00FP				Physiology	12
CHM00FP				Chemistry	6
FIS00FP				Physics	6
WIS00FP				Mathematics	6
COR00FP				Core Curriculum (main instructional offering)	30
LCS5001				Academic Literacy and Communication Studies (module instructional offering)	12
NMC00FP				Numeracy (module instructional offering)	6
DLC5011				Basic Digital Literacy (module instructional offering) (semester 1)	6
ADC5022				Advanced Digital Literacy (module instructional offering)	6
PIM5011				Personal Information Management (module instructional offering)	0
	IGT11AT			Introduction to Medical Technology	10
	CHB11CT			Chemistry I	12
	BST11AT			Calculations & Statistics	12
	FSK11BT			Physics I	12
	PFS22AT			Pathophysiology II	12
	BCH22AT			Biochemistry II	12
	IMM22BT			Immunology II	12
		MKB11AT		Microbiology I	15
		BLD21AT		Blood Transfusion Technology	15
		CHP11AT		Chemical Pathology I	15
		SLP11AT		Cellular Pathology I	15
		MKB22BT		Microbiology II	15
		HEM22BT		Haematology II	15
		CHP22BT		Chemical Pathology II	15
		SLP22AT		Cellular Pathology II	15

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
			MKB31BT	Microbiology III	15
			HEM31BT	Haematology III	15
			CHP31BT	Chemical Pathology III	15
			SLP31AT	Cellular Pathology III	15
			LAB31BT / LAB32BT	Work-integrated Learning	60
Total:					388

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Medical Technology of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to medical technology, as approved.

Work-integrated learning takes place only at approved accredited laboratories identified by CUT and the Professional Board for Medical Technology. A student with outstanding exit-level subjects may not be eligible for work-integrated learning placement.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science, and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Science (rating 4) **and** Physical Science (rating 4), **as well as** a minimum mark of 40% in Mathematics (rating 3) and English (rating 3), is required.

A candidate must successfully complete the selection process for admission to this learning programme. A candidate is required to submit proof of job shadowing at an accredited diagnostic laboratory.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

A candidate might be recommended for, and must successfully complete, a selection process and selection test for admission to the learning programme, and meritorious exceptions may be considered for ECP.

Provisionally selected students are subject to a second round of selections after submission of the NSC results. Should a prospective student have forfeited his/her selection, he/she might be considered for the limited number of ECP placements.

PRE-REQUISITES

Admission to a higher level of study

Considering that the ECP is subject to additional funding being made available by the Department of Higher Education and Training, a student will not be allowed to repeat the first year or part of the first year of the ECP.

A student must pass all first-year instructional offerings in order to continue with the second-year instructional offerings of the ECP. A student may not change from the ECP to the regular programme.

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisites for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Pathophysiology II
 Biochemistry II
 Chemical Pathology I

 Microbiology I

 Microbiology II
 Microbiology III
 Chemical Pathology II (semester 2)
 Chemical Pathology III
 Blood Transfusion Technology
 Haematology II

 Haematology III
 Cellular Pathology I

 Cellular Pathology II (semester 2)
 Cellular Pathology III
 Work-integrated Learning

Pre-requisite instructional offerings

Anatomy & Physiology
 Chemistry I
 Biochemistry II, Calculations and
 Statistics
 Immunology II, Anatomy and
 Physiology II (semester 2)
 Microbiology I
 Microbiology II
 Chemical Pathology I (semester 1)
 Chemical Pathology II (semester 2)
 Immunology II
 Blood Transfusion
 Technology
 Haematology II
 Anatomy & Physiology I, Immunology II,
 Pathophysiology II
 Cellular Pathology I (semester 1)
 Cellular Pathology II (semester 2)
 325 credits passed

15.2 NATIONAL DIPLOMA: CLINICAL TECHNOLOGY (ECP) HXNDCA

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 411
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 4 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANA00FP				Anatomy	12
PHY00FP				Physiology	12
CHM00FP				Chemistry	6
FIS00FP				Physics	6
WIS00FP				Mathematics	6
COR00FP				Core Curriculum (main instructional offering)	30
LCS5001				Academic Literacy and Communication Studies (module instructional offering)	12
NMC00FP				Numeracy (module instructional offering)	6
DLC5011				Basic Digital Literacy (module instructional offering) (semester 1)	6
ADC5022				Advanced Digital Literacy (module instructional offering)	6
PIM5011				Personal Information Management (module instructional offering)	0
	ANA10AT			Anatomy I	30
	FSL10AT			Physiology I	30
	FSK11BT FSK12BT			Physics I or Physics I	12
	CHB11CT CHB12CT			Chemistry I or Chemistry I	12
	BST11AT BST12AT			Calculations & Statistics I or Calculations & Statistics I	12
	PSI12AT			Psychodynamics I	15
		AFI20CT BAP20AT		Anatomy & Physiology II Biomedical Apparatus & Procedures I	27 30
		OSP20AT		Organ & System Pathophysiology II	30
		FAR20AT		Pharmacology II	27

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
			Any ONE (1) of the seven (7) options below.		
			TPC30AT	Work-integrated Learning: Cardiology: Clinical Technology III	40
			BMK30CT	Work-integrated Learning: Cardiology: Biomedical Apparatus III	40
			CNK30BT	Work-integrated Learning: Cardiology: Clinical Practice III	40
			TPH30AT	Work-integrated Learning: Nephrology: Clinical Technology Practice III	40
			BMN30CT	Work-integrated Learning: Nephrology: Biomedical Apparatus III	40
			CNN30BT	Work-integrated Learning: Nephrology: Clinical Practice III	40
			TPN30AT	Work-integrated Learning: Neurophysiology: Clinical Technology Practice III	40
			BME30CT	Work-integrated Learning: Neurophysiology: Biomedical Apparatus III	40
			CNO30BT	Work-integrated Learning: Neurophysiology: Clinical Practice III	40
			TPU30AT	Work-integrated Learning: Pulmonology: Clinical Technology Practice III	40
			BMP30CT	Work-integrated Learning: Pulmonology; Biomedical Apparatus III	40
			CNP30BT	Work-integrated Learning: Pulmonology: Clinical Practice III	40
			TPK30AT	Work-integrated Learning: Critical Care: Clinical Technology Practice III	40
			BAM30BT	Work-integrated Learning: Critical Care: Biomedical Apparatus III	40
			KPK30BT	Work-integrated Learning: Critical Care: Clinical Practice III	40
			TPT30AT	Work-integrated Learning: Reproductive Biology: Clinical Technology Practice III	40
			BIR30BT	Work-integrated Learning: Reproductive Biology: Biomedical Apparatus III	40

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
			KPR30BT	Work-integrated Learning: Reproductive Biology: Clinical Practice III	40
			PTP30AT	Work-integrated Learning: Perfusion: Clinical Technology Practice III	40
			PBA30BT	Work-integrated Learning: Perfusion: Biomedical Apparatus III	40
			CNF30BT	Work-integrated Learning: Perfusion: Clinical Practice III	40
Total:					411

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa (HPCSA) in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to clinical technology, as approved. Instructional offerings at fourth-year level of the ECP are offered together with Work-integrated Learning in an accredited training unit and in a specific category, as approved by the Professional Board for Radiography and Clinical Technology and CUT, in co-operation with CUT, the employer and the Professional Board. The student must comply with 1 800 hours for the year, set as the minimum requirement by die HPCSA.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Science **and** Physical Science, **as well as** a minimum mark of 40% in Mathematics and English, is required.

A candidate must successfully complete the selection process for admission to this learning programme.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

A candidate might be recommended for, and must successfully complete, a selection process and selection test for admission to the learning programme, and meritorious exceptions may be considered for ECP.

Provisionally selected students are subject to a second round of selections after submission of the NSC results. Should a prospective student have forfeited his/her selection, he/she might be considered for the limited number of ECP placements.

PRE-REQUISITES

Admission to a higher level of study

Considering that the ECP is subject to additional funding being made available by the Department of Higher Education and Training, a student will not be allowed to repeat the first year or part of the first year of the ECP.

A student must pass all instructional offerings of the first year of the ECP in order to continue with the subsequent year of study. A student may not change from the ECP to the regular programme.

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Pre-requisite instructional offerings

Anatomy & Physiology II

Anatomy I, Physiology I
(for Clinical Technology)

Organ & System Pathophysiology II

Anatomy I, Physiology I
(for Clinical Technology)

Pharmacology II

Anatomy I, Physiology I
(for Clinical Technology)

15.3 NATIONAL DIPLOMA: EMERGENCY MEDICAL CARE (ECP) HXNDEA
(No new first-year intake for the National Diploma: Emergency Medical Care (ECP) as from 2015.)

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 414
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 4 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANA00FP				Anatomy	12
PHY00FP				Physiology	12
CHM00FP				Chemistry	6
FIS00FP				Physics	6
WIS00FP				Mathematics	6
COR00FP				Core Curriculum (main instructional offering)	30
LCS5001				Academic Literacy and Communication Studies	12
NMC00FP				Numeracy (module instructional offering)	6
DGL00FP				Digital Literacy (module instructional offering)	6
ADC5022				Advanced Digital Literacy	6
PIM5011				Personal Information Management	0
Main instructional offering					
	BSN10AT			Basic Science I	
Module instructional offerings					
	PSS11AT			Physics	12
	CHS12AT			Chemistry	12
Main instructional offering					
	MCR10AT			Medical Rescue I	
Module instructional offerings					
	ROP12AT			Rope Rescue I	12
	EXT11AT			Extrication I	12
	RYS12AT			Rescue Systems I	6
Main instructional offering					
	MMC10AT			Emergency Medical Care I: Work-integrated Learning	
Module instructional offerings					
	EPP11AT			Ethics & Professional Practice I	6
	CLR11AT			Cardiopulmonary Resuscitation	6
	ECP10AT			Emergency Care of the Adult & Paediatric Patient	12
	OBN12AT			Obstetrics & Neonatology I	6
	CSC12AT			Emergency Care in Special Circumstances	6

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Main instructional offering					
	MST10AT			Emergency Service Technology I	
Module instructional offerings					
	TOC11AT			Theory of Communication	6
	BAT11AT			Basic Ambulance Technology	12
	BIH10AT			Basic Information Technology	6
Compulsory instructional offerings					
		PHY20AT		Physiology II	24
		ESC10AT		Emergency Service Communication I	12
		PEC12AT		Psycho-Psychiatric Emergency Care I	6
		PMC10AT		Pharmacology I	24
Main instructional offering					
		MCR20AT		Medical Rescue II	
Module instructional offerings					
		ROP21AT		Rope Rescue II	12
		EXT22AT		Extrication II	12
		RYS22AT		Rescue Systems II	6
Main instructional offering					
		MMC20AT		Emergency Medical Care II: Work-integrated Learning	
Module instructional offerings					
		MDE20AT		Medical Emergencies	12
		TRE20AT		Trauma Emergencies	12
Compulsory instructional offerings					
			GPH10AT	General Pathology I	24
			ESA10AT	Emergency Service Administration I	12
Main instructional offering					
			MCR30AT	Medical Rescue III	
Module instructional offerings					
			ROP31AT	Rope Rescue III	12
			EXT32AT	Extrication III	12
			RYS32AT	Rescue Systems III	6
Main instructional offering					
			MMC30AT	Emergency Medical Care III: Work-integrated Learning	
Module instructional offerings					
			EPP21AT	Ethics & Professional Practice II	6
			CSP31AT	Cardiovascular Support in the Critical Patient	12
			IAP30AT	Emergency Care of the Ill & Injured Adult & Paediatric Patient	12
			OBN22AT	Obstetrics & Neonatology II	12
			TIP32AT	Transportation of the Ill & Injured Patient	6
Total:					414

*Work-integrated Learning credits reflected in module instructional offerings.

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Emergency Care of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to emergency care, as approved.

Work-integrated learning is conducted at approved units identified by CUT and the Professional Board for Emergency Care. The student will be expected to undertake his/her work-integrated learning according to a formal roster system managed by the learning programme, which includes working over weekends and during academic recesses. The student is expected to comply with the guidelines and code of conduct specified in the programme's standard operating procedures and the subsequent amendments pertaining to programme requirements, as approved.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade in at least **two** of the following subjects is required: Mathematics, Physical Science, and/or Biology/Physiology. Candidates must also successfully complete the selection process – which includes a fitness test, medical examination and psychological assessment – for admission to the programme.

For candidates who completed NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in **two** of the following subjects is required: Life Science, Physical Science, and/or Mathematics, or Mathematical Literacy (60%). Candidates must also successfully complete the selection process – which includes a fitness test, medical examination and psychological assessment – for admission to the programme.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES**Admission to a higher level of study**

Considering that the ECP is subject to additional funding being made available by the Department of Higher Education and Training, a student will not be allowed to repeat the first year or part of the first year of the ECP.

A student must pass all instructional offerings of the first year of the ECP in order to continue with the subsequent year of study. A student may not change from the ECP to the regular programme.

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

A student must meet the minimum physical fitness requirements before undertaking the practical phase of a rescue module in all four years of the programme.

A student may not register for minor instructional offerings or modules in a subsequent level of study in cases where timetabling conflicts occur. The student must first complete ALL major instructional offerings with his/her module instructional offerings at a particular level of study before progressing to the next level of study. The learning programme is structured in such a way that instructional offerings and modules from previous levels are assumed to be in place, and instructional offerings and modules on subsequent levels are expected to build on previously acquired knowledge, skills and attributes.

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Pre-requisite instructional offerings

Medical Rescue II

All module instructional offerings for Medical Rescue I, Basic Sciences I and Emergency Medical Care I: Work-integrated Learning

Emergency Medical Care II: Work-integrated Learning

All module instructional offerings for Emergency Medical Care I: Work-integrated Learning, Anatomy & Physiology I, Basic Sciences I and Emergency Service Technology I

Physiology II

All module instructional offerings for Basic Sciences I and Anatomy & Physiology I

Emergency Service Communication I

All module instructional offerings for Emergency Service Technology I

Emergency Medical Care III: Work-integrated Learning

All module instructional offerings for Emergency Medical Care II: Work-integrated Learning, Physiology II, Pharmacology I and Emergency Service Communication I

General Pathology I

Pharmacology I and Physiology II

Medical Rescue III	All module instructional offerings for Medical Rescue II and Emergency Medical Care II: Work-integrated Learning:
Emergency Service Administration I	Emergency Service Communication I

15.4 NATIONAL DIPLOMA: ENVIRONMENTAL HEALTH (ECP) HXNDOA

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 408
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 4 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANA00FP				Anatomy	12
PHY00FP				Physiology	12
CHM00FP				Chemistry	6
FIS00FP				Physics	6
WIS00FP				Mathematics	6
COR00FP				Core Curriculum (main instructional offering)	30
LCS5001				Academic Literacy and Communication Studies (module instructional offering)	12
NMC00FP				Numeracy (module instructional offering)	6
DLC5011				Basic Digital Literacy (module instructional offering) (semester 1)	6
ADC5022				Advanced Digital Literacy (module instructional offering)	6
PIM5011				Personal Information Management (module instructional offering)	0
	FEC10AT			Physics & Chemistry I	24
	GMO10AT			Community Development I	24
	MBO10BT			Microbiology I	24
	OMB10AT			Environmental Planning I	24
		BGV20AT		Occupational Health & Safety II	24
		EPI20AT		Epidemiology II	24
		GMO20AT		Community Development II	24
		OAW20AT		Environmental Pollution: Waste & Water II	24
		VVH20AT		Food & Meat Hygiene II	24

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
			BGV30AT	Occupational Health & Safety III	24
			FBS30AT	Management Practice III	30
			EPI30AT	Epidemiology III	24
			OLG30AT	Environmental Pollution: Air & Noise III	24
			VVH30AT	Food & Meat Hygiene III	24
Total:					408

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Environmental Health Practitioners of the Health Professions Council of South Africa, as stipulated in Government Gazette R1869, dated 79.08.24.

At least 25 working days during the second and third years of study and at least 40 working days in the fourth year of study in the ECP are to be completed under the supervision of a registered environmental health practitioner.

Instructional offerings at all levels are assessed internally by CUT. Third-level instructional offerings, however, are moderated externally. Practical assessments in the instructional offering Food & Meat Hygiene III are conducted internally by CUT.

In cases where a practical assessment is administered, the final assessment mark is awarded for both the theory and practical components.

Directly upon receiving the national diploma, all students are expected to perform 12 months of compulsory community service.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Physical, chemical and biological stressors to which students are exposed may be detrimental to the health of an unborn child. Due to the important practical component of the programme, during which students are exposed to various physical, chemical and biological stressors, a female student is not permitted to complete the practical section of the programme during pregnancy. Any student who suspects she may be pregnant must notify the relevant head of department immediately. Such a student must discontinue Food & Meat Hygiene III (VVH30AT) (if registered). It is also recommended that the student discontinues the following instructional offerings (if registered) for the full duration of her pregnancy:

- MBO10AT Microbiology I
- BGV 20AT Occupational Health & Safety II
- OAW20AT Environmental Pollution: Waste & Water II
- BGV30AT Occupational Health & Safety III

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade in any **two** of the following subjects is required: Biology, Physical Science and Mathematics. Geography and/or Physiology are recommended.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in both Life Science **and** Physical Science, **as well as** a minimum mark of 40% in Mathematics.

A candidate might be recommended for, and must successfully complete, a selection process for admission to the learning programme, and meritorious exceptions may be considered for the ECP.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

A candidate might be recommended for, and must successfully complete, a selection process and selection test for admission to the learning programme, and meritorious exceptions may be considered for ECP.

Provisionally selected students are subject to a second round of selections after submission of the NSC results. Should a prospective student have forfeited his/her selection, he/she might be considered for the limited number of ECP placements.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES**Admission to a higher level of study**

Considering that the ECP is subject to additional funding being made available by the Department of Higher Education and Training, a student will not be allowed to repeat the first year or part of the first year of the ECP.

A student must pass all instructional offerings of the first year of the ECP in order to continue with the subsequent year of study. A student may not change from the ECP to the regular programme.

A student is not permitted to continue with an instructional offering at a particular level before successfully completing the preceding level.

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Food & Meat Hygiene II
 Environmental Pollution: Waste & Water II
 Epidemiology II
 Occupational Health & Safety II

Community Development II
 Food & Meat Hygiene III
 Environmental Pollution: Air & Noise III

Epidemiology III
 Occupational Health & Safety III
 Management Practice III

Pre-requisite instructional offerings

Microbiology I
 Environmental Planning I
 Microbiology I
 Physics & Chemistry I **or**
 Anatomy & Physiology
 Community Development I
 Food & Meat Hygiene II
 Environmental Pollution:
 Waste & Water II
 Epidemiology II
 Occupational Health & Safety II
 Community Development II

15.5 NATIONAL DIPLOMA: RADIOGRAPHY (DIAGNOSTIC) (ECP) HXNDRA

This learning programme will be offered in Bloemfontein.

The National Diploma: Radiography (Diagnostic) (ECP) is phasing out and no new admissions for the first year will be accepted in 2015.

SAQA CREDITS: 440
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 4 years

4TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Diagnostic		
RAD30AT	Radiographic Practice III (D)	36
KLD30AT	Work-integrated Learning: Clinical Radiography III (D)	48
SWD30AT	Radiation Science III (D)	24
RAB30AT	Radiographic Management III (D)	12
Total:		440

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to radiography, as approved.

Work-integrated learning is conducted simultaneously with formal training in a training unit, as approved by the Professional Board for Radiography and Clinical Technology, from the second year of the ECP. The student is placed as a student radiographer at an accredited hospital and undergoes work-integrated learning for a specific number of hours, as prescribed by the Professional Board for

Radiography and Clinical Technology. The work-integrated learning component can make it practically impossible for a student to take instructional offerings on two academic levels in a single academic year. A student who fails is assessed on an individual basis in respect of the continuation of studies.

Assessment: Formative and Summative.

Work-integrated Learning: Clinical Radiography I, II & III (Diagnostic) are assessed in practice (continuously). Practical competency and skills are assessed according to specific guidelines.

The radiation to which a radiographer is exposed may be detrimental to the health of an unborn child. Due to the important practical component of the learning programme, during which students are exposed to radiation, a female student is not permitted to complete the practical part of the learning programme during pregnancy. Any student who suspects she may be pregnant must notify the relevant Head of Department immediately. Such a student must discontinue the learning programme for the full duration of her pregnancy.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Science and Physical Science, as well as a minimum mark of 40% in Mathematics, is required.

A candidate must also successfully complete the selection process for admission.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES

Admission to a higher level of study

Considering that the ECP is subject to additional funding being made available by the Department of Higher Education and Training, a student will not be allowed to repeat the first year or part of the first year of the ECP.

A student must pass all instructional offerings of the first year of the ECP in order to continue with the subsequent year of study. A student may not change from the ECP to the regular programme.

Students who score between 50% and 59% in Anatomy (ANA00FP) will be required to register for the module Radiography Anatomy I (ANT10AT) in the second year of the ECP.

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Pre-requisite instructional offerings

Radiographic Practice II (D) and
Work-integrated Learning: Clinical Radiography II (D)

Radiographic Practice I and
Work-integrated Learning:
Clinical Radiography I (D)

Radiation Science II (Image Recording and
Radiation Physics)

Radiation Science I (Image Recording and
Physics & Chemistry)

Radiographic Pathology II

Radiographic Pathology I and
Anatomy & Physiology

Radiographic Practice III (D) and
Work-integrated Learning: Clinical Radiography III (D)

Radiographic Practice II (D) and
Work-integrated Learning:
Clinical Radiography II (D)

Radiation Science III (D)

Radiation Science II (Image Recording
and Radiation Physics)

15.6 NATIONAL DIPLOMA: SOMATOLOGY (ECP) HXNDSA

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 396
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 4 years

Instructional offerings

1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANA00FP PHY00FP				Anatomy Physiology	12 12
CHM00FP FIS00FP WIS00FP				Chemistry Physics Mathematics	6 6 6
COR00FP				Core Curriculum (main instructional offering)	30
LCS5001				Academic Literacy and Communication Studies (module instructional offering)	12
NMC00FP				Numeracy (module instructional offering)	6
DLC5011				Basic Digital Literacy (module instructional offering) (semester 1)	6
ADC5022				Advanced Digital Literacy (module instructional offering)	6
PIM5011				Personal Information Management (module instructional offering)	0
	SOM10AT SMT10AT SFT10AT			Soma Techniques I (main instructional offering) Soma Techniques I (Theory) (module instructional offering) Soma Techniques I: Facials Theory	0 24
	SPT10AT			Soma Techniques I: Manicures Theory	

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
	SMP10AT			Soma Techniques I (Practical) (module instructional offering)	24
	SFP10AT			Soma Techniques I: Facials Practical	
	SPP10AT			Soma Techniques I: Manicures Practical	
	SLP10AT			Soma Techniques I: Swedish Practical	
	SXP10AT			Soma Techniques I: Wax Practical	
	EST10BT			Aesthetics I	12
	BTK10AT			Biotics I	6
	WSP10AT			Science I (Theory and Practical)	12
	VDN10AT			Nutrition I	6
		SOM20AT		Soma Techniques II (main instructional offering)	0
		SMT20AT		Soma Techniques II (Theory) (module instructional offering)	24
		SFT20AT		Soma Techniques II: Facials Theory	
		SST20AT		Soma Techniques II: Slimming Theory	
		SAT20AT		Soma Techniques II: Aromatherapy Theory	
		SRT20AT		Soma Techniques II: Reflexology Theory	
		SLT20AT		Soma Techniques II: MLD Theory	
		SDT20AT		Soma Techniques II: Diathermy Theory	
		SMP20AT		Soma Techniques II (Practical) (module instructional offering)	36
		SPF20AT		Soma Techniques II: Facials Practical	
		SSP20AT		Soma Techniques II: Slimming Practical	
		SAP20AT		Soma Techniques II: Aromatherapy Practical	
		SRP20AT		Soma Techniques II: Reflexology Practical	
		SLP20AT		Soma Techniques II: MLD Practical	
		SDP20AT		Soma Techniques II: Diathermy Practical	

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
		BTK20AT		Biotics II	6
		WSP20AT		Science II (Theory and Practical)	12
		AFG20BT		Anatomy & Physiology II	18
		SAK10BB		Business Practice I	6
		SSK10AT		Socio-psychology I	12
		VDN20AT		Nutrition II	6
			SOM30AT	Soma Techniques III (main instructional offering)	0
			SMT30AT	Soma Techniques III (Theory) (module instructional offering)	24
			SFT30AT	Soma Techniques III: Facials Theory	
			SST30AT	Soma Techniques III: Slimming Theory	
			SAT30AT	Soma Techniques III: Aromatherapy Theory	
			SRT30AT	Soma Techniques III: Reflexology Theory	
			SIT30AT	Soma Techniques III: IPL Theory	
			SCT30AT	Soma Techniques III: Aromatherapy Chemistry Theory	
			SMP30AT	Soma Techniques III (Practical) (module instructional offering)	36
			SFP30AT	Soma Techniques III: Facials Practical	
			SSP30AT	Soma Techniques III: Slimming Practical	
			SAP30AT	Soma Techniques III: Aromatherapy Practical	
			SRP30AT	Soma Techniques III: Reflexology Practical	
			SIP30AT	Soma Techniques III: IPL Practical	
			BTK30AT	Biotics III	6
			SSK20AT	Socio-psychology II	12
			VDN30AT	Nutrition III	6
			SAK20AB	Business Practice II	6
			BWS30AT	Applied Biological Sciences III	6
			SOP20AT	Work-integrated Learning: Soma Techniques Project II	30
				Total:	396

REMARKS

In the fourth year of study in the ECP, the student must complete 300 hours of work-integrated learning in an accredited salon. Only the weekly hours scheduled on the timetable are taken into account. In the event of a student deciding to work overtime or on a Saturday, Sunday or public holiday, this is considered a separate agreement between the student and the salon owner, and those hours are not taken into account in the accumulation of the required 300 hours. Work-integrated Learning: Soma Techniques Project II (SOP 20AT) is a year instructional offering and is to be completed in full to allow the student to pass the instructional offering. A student is responsible for her own placement at an accredited salon/clinic, as well as for the necessary travel arrangements.

Work-integrated learning (WIL) will be scheduled for the months of December to February, for purposes of relevant and beneficial exposure at spas and resorts.

Before the national diploma can be awarded, the student must have earned the recognised first-aid certificate, as well as diplomas from certain product houses, as required by the course.

A candidate only qualifies for the CIDESCO assessment if:

1. She scores a minimum of 60% in both the theoretical and practical components of the instructional offering Soma Techniques III during the first and second quarters; and
2. She passes all first-year, second-year and third-year instructional offerings of the National Diploma: Somatology (ECP).

A subminimum of 50% for each section of the practical (SMP) and theoretical (SMT) assessment is required for a student to pass the main instructional offering (SOM).

For example, if SMP20AT consists of theoretical and practical sections (Facials, Slimming, Aromatherapy & Reflexology, Manual Lymph Drainage (MLD) and Diathermy), the student must score at least 50% in each separate section in order to pass SMP20AT. Should a student fail even one of the sections, she will be required to re-register for SMP20AT in its entirety and would have to pass all sections successfully before she will be permitted to register for SMP30AT.

A student may be refused admission to the assessment if she has been absent from more than two practical periods in a term. This rule is applicable to each separate practical section.

It is compulsory for a student to dress in the prescribed uniform and shoes (refer to the general rules applicable to the Somatology programme).

Since the electrical apparatus to which students are exposed during the practical component of the learning programme may prove detrimental to the health of an unborn child, a female student is not permitted to complete the practical part of the learning programme during pregnancy. Any student who suspects she may be pregnant must notify the relevant head of department immediately.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in Physical Science **or** Biology **or** Physiology is required. Mathematics is recommended.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Science **or** Physical Science is required.

A candidate must successfully complete the selection process for admission to this learning programme.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

A candidate might be recommended for, and must successfully complete, a selection process and selection test for admission to the learning programme, and meritorious exceptions may be considered for ECP.

Provisionally selected students are subject to a second round of selections after submission of the NSC results. Should a prospective student have forfeited his/her selection, he/she might be considered for the limited number of ECP placements.

A candidate might be recommended for, and must successfully complete, a selection process and selection test for admission to the learning programme, and meritorious exceptions may be considered for ECP.

Provisionally selected students are subjected to a second round of selections after submission of the NSC results. Should a prospective student have forfeited his/her selection, he/she might be considered for the limited number of ECP placements.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES

Admission to a higher level of study

Considering that the ECP is subject to additional funding being made available by the Department of Higher Education and Training, a student will not be allowed to repeat the first year or part of the first year of the ECP.

A student must pass all first-year instructional offerings in order to continue with second-year instructional offerings of the ECP. A student may not change from the ECP to the regular programme.

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Soma Techniques II
 Soma Techniques III
 Biotics II
 Biotics III
 Science II
 Anatomy & Physiology II
 Nutrition II
 Nutrition III
 Socio-psychology II
 Business Practice II
 Work-integrated Learning: Soma Techniques Project II

Pre-requisite instructional offerings

Soma Techniques I
 Soma Techniques II
 Biotics I
 Biotics II
 Science I
 Anatomy & Physiology
 Nutrition I
 Nutrition II
 Socio-psychology I
 Business Practice I
 Soma Techniques I & II

16. NATIONAL DIPLOMAS

16.1 NATIONAL DIPLOMA: AGRICULTURAL MANAGEMENT TLNDLB

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 360
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

1 ST YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
AMN11AT		Agricultural Management I	12
PPR11AT		Plant Production I	12
APR11AT		Animal Production I	12
COM11AT		Computer Skills I	6
SSC11AT		Agricultural Soil Science I	10
PAS11AT		Pasture Science I	10
PRE1A		English Proficiency and	6
PRE2B		English Proficiency	

1 ST YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
	AMN22AT	Agricultural Management II	12
	PPR22AT	Plant Production II	12
	APR22AT	Animal Production II	12
	CAP22AT	Computer Applications (Agriculture) II	6
	SCL22AT	Soil Classification II	10
	PRD12AT	Production & Operational Techniques I	12
Total:			132

2 ND YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
LBB21ZT	LBB22ZT	Agricultural Management: Work-integrated Learning	4
APM20AT		Agricultural Production Management II	62
APT20AT		Agricultural Production Techniques II	62
Total:			128

3 RD YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
Compulsory instructional offerings			
AMN30AT		Agricultural Management III	24
ENG10AT		Agricultural Engineering I	24
PBL10AT		Human Resources Management: Agriculture I	12
ALW10AT		Agricultural Law I	12
Optional instructional offerings			
PPR30AT		*Plant Production III	24
APR30AT		*Animal Production III	24
Total:			120

REMARKS

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A candidate must successfully complete the selection process for admission to this learning programme. A National Senior Certificate or equivalent qualification is a pre-requisite.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a pass in Agricultural Science is recommended.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 40% in one of the following subjects, as well as a minimum mark of 50% in another, is required: Agricultural Science, Mathematics, Mathematical Literacy, Life Science, Economics, Accounting or Physical Science.

Applicants in possession of the National Certificate Vocational (NCV) level 4, N4, N5 & N6 qualification:

In addition to the general admission requirements, a minimum mark of 40% in one of the following subjects, as well as minimum mark of 50% in another, is required: Agricultural Science, and/or Biology or Life Sciences, Mathematics, Mathematical Literacy, Life Orientation, Economics, Accounting or Physical Science.

Optional instructional offerings

Instructional offerings are marked with an asterisk (*).

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

- Agricultural Management II
- Plant Production II
- Animal Production II
- Computer Applications (Agriculture) II
- Soil Classification II
- Pasture Science I
- Agricultural Management III
- Plant Production III
- Animal Production III
- Agricultural Engineering I
- Human Resources Management: Agriculture I
- Agricultural Law I

Pre-requisite instructional offerings

- Agricultural Management I
- Plant Production I
- Animal Production I
- Computer Skills I
- Agricultural Soil Science I
- Grade 12
- Agricultural Management II
- Plant Production II
- Animal Production II
- Grade 12
- Grade 12
- Grade 12

16.2 NATIONAL DIPLOMA: BIOMEDICAL TECHNOLOGY TANDIC

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 361
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANF11BT			Anatomy & Physiology I	12
IGT11AT			Introduction to Medical Technology	10
CHB11CT			Chemistry I	12
BST11AT			Calculations & Statistics	12
FSK11BT			Physics I	12
PRE1A PRE2B			English Proficiency and English Proficiency	9
ANF12BT			Anatomy & Physiology I	12
PFS22AT			Pathophysiology II	12
BCH22AT			Biochemistry II	12
IMM22BT			Immunology II	12
BTC12AT			Computer Skills I	6
	MKB11AT		Microbiology I	15
	BLD21AT		Blood Transfusion Technology	15
	CHP11AT		Chemical Pathology I	15
	SLP11AT		Cellular Pathology I	15
	MKB22BT		Microbiology II	15
	HEM22BT		Haematology II	15
	CHP22BT		Chemical Pathology II	15
	SLP22AT		Cellular Pathology II	15
		MKB31BT	Microbiology III	15
		HEM31BT	Haematology III	15
		CHP31BT	Chemical Pathology III	15
		SLP31AT	Cellular Pathology III	15
		LAB31BT /LAB32BT	Work-integrated Learning	60
Total:				361

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Medical Technology of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to medical technology, as approved.

Work-integrated learning takes place only at approved, accredited laboratories identified by CUT and the Professional Board for Medical Technology. A student with outstanding exit-level subjects may not be eligible for work-integrated learning placement.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in both Life Sciences and Physical Science, as well as a minimum mark of 50% in both Mathematics and English, is required.

A candidate must successfully complete the selection process for admission to this learning programme. A candidate is required to submit proof of job shadowing at an accredited diagnostic laboratory.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Only students who have passed all the first-year instructional offerings may enrol for third-year instructional offerings.

Instructional offerings

Anatomy & Physiology I (semester 2)
 Pathophysiology II
 Biochemistry II
 Chemical Pathology I

 Microbiology I

 Microbiology II
 Microbiology III

Pre-requisite instructional offerings

Anatomy & Physiology I (semester 1)
 Anatomy & Physiology I (semester 1)
 Chemistry I
 Biochemistry II, Calculations and
 Statistics
 Immunology II, Anatomy and
 Physiology II (semester 2)
 Microbiology I
 Microbiology II

Chemical Pathology II (semester 2)	Chemical Pathology I (semester 1)
Chemical Pathology III	Chemical Pathology II (semester 2)
Blood Transfusion Technology	Immunology II
Haematology II	Blood Transfusion Technology
Haematology III	Haematology II
Cellular Pathology I (semester 1)	Anatomy & Physiology I (semester 2), Immunology II and Pathophysiology II
Cellular Pathology II (semester 2)	Cellular Pathology I (semester 1)
Cellular Pathology III	Cellular Pathology II (semester 2)
Work-integrated Learning	301 credits passed

16.3 NATIONAL DIPLOMA: CLINICAL TECHNOLOGY TANDCT

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 360
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

1 ST YEAR	2 ND YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANA10AT		Anatomy I	30
FSL10AT		Physiology I	30
FSK11BT FSK12BT		Physics I or Physics I	12
CHB11CT CHB12CT		Chemistry I or Chemistry I	12
BST11AT BST12AT		Calculations & Statistics I or Calculations & Statistics I	12
PSI12AT		Psychodynamics I	15
PRE1A PRE2B		English Proficiency and English Proficiency	9
	AFI20CT	Anatomy & Physiology II	27
	RTP11AT RTP12AT BAP20AT	Computer Application I or Computer Application I Biomedical Apparatus & Procedures I	6 30
	OSP20AT	Organ & System Pathophysiology II	30
	FAR20AT	Pharmacology II	27
Total:			240

3RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Any ONE of the seven options below.		
TPC30AT	Work-integrated Learning: Cardiology: Clinical Technology III	40
BMK30CT	Work-integrated Learning: Cardiology: Biomedical Apparatus III	40
CNK30BT	Work-integrated Learning: Cardiology: Clinical Practice III	40
TPH30AT	Work-integrated Learning: Nephrology: Clinical Technology III	40
BMN30CT	Work-integrated Learning: Nephrology: Biomedical Apparatus III	40
CNN30BT	Work-integrated Learning: Nephrology: Clinical Practice III	40
TPN30AT	Work-integrated Learning: Neurophysiology: Clinical Technology III	40
BME30CT	Work-integrated Learning: Neurophysiology: Biomedical Apparatus III	40
CNO30BT	Work-integrated Learning: Neurophysiology: Clinical Practice III	40
TPU30AT	Work-integrated Learning: Pulmonology: Clinical Technology III	40
BMP30CT	Work-integrated Learning: Pulmonology: Biomedical Apparatus III	40
CNP30BT	Work-integrated Learning: Pulmonology: Clinical Practice III	40
TPK30AT	Work-integrated Learning: Critical Care: Clinical Technology III	40
BAM30BT	Work-integrated Learning: Critical Care: Biomedical Apparatus III	40
KPK30BT	Work-integrated Learning: Critical Care: Clinical Practice III	40
TPT30AT	Work-integrated Learning: Reproductive Biology: Clinical Technology III	40
BIR30BT	Work-integrated Learning: Reproductive Biology: Biomedical Apparatus III	40
KPR30BT	Work-integrated Learning: Reproductive Biology: Clinical Practice III	40
PTP30AT	Work-integrated Learning: Perfusion: Clinical Technology III	40
PBA30BT	Work-integrated Learning: Perfusion: Biomedical Apparatus III	40
CNF30BT	Work-integrated Learning: Perfusion: Clinical Practice III	40
Total:		120

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa (HPCSA) in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to Clinical Technology, as approved. Instructional offerings at third-year level are offered together with Work-integrated Learning in an accredited training unit and in a specific category, as approved by the Professional Board for Radiography and Clinical Technology and CUT, in co-operation with CUT, the employer and the Professional Board. The student must comply with 1 800 hours for the year, set as the minimum requirement by the HPCSA.

Upon successful completion of this qualification, a National Diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Science **and** Physical Science, **as well as** a minimum mark of 40% in Mathematics and English, is required.

A candidate must successfully complete the selection process for admission to this learning programme.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Anatomy & Physiology II
Organ & System Pathophysiology II
Pharmacology II

Pre-requisite instructional offerings

Anatomy I and Physiology I
Anatomy I and Physiology I
Anatomy I and Physiology I

A student must successfully complete all his/her first- and second-year instructional offerings in order to obtain admission to Work-integrated Learning in the third-year.

16.4 NATIONAL DIPLOMA: EMERGENCY MEDICAL CARE THNDMC
(No new first-year intake for the National Diploma: Emergency Medical Care as from 2015.)

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 381
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Compulsory instructional offering				
PRE1A PRE2B			English Proficiency and English Proficiency	9
Main instructional offering				
ANP10CT			Anatomy & Physiology	24
Main instructional offering				
BSN10AT			Basic Science I	
Module instructional offerings				
PSS11AT			Physics	12
CHS12AT			Chemistry	12
Main instructional offering				
MCR10AT			Medical Rescue I	
Module instructional offerings				
ROP12AT			Rope Rescue I	12
EXT11AT			Extrication I	12
RYS12AT			Rescue Systems I	6
Main instructional offering				
MMC10AT			*Emergency Medical Care I: Work-integrated Learning	
Module instructional offerings				
EPP11AT			Ethics & Professional Practice I	6
CLR11AT			Cardiopulmonary Resuscitation	6
ECP10AT			Emergency Care of the Adult & Paediatric Patient	12
OBN12AT			Obstetrics & Neonatology I	6
CSC12AT			Emergency Care in Special Circumstances	6
Main instructional offering				
MST10AT			Emergency Service Technology I	
Module instructional offerings				
BIH10AT			Basic Information Technology	6
TOC11AT			Theory of Communication	6
BAT11AT			Basic Ambulance Technology	12

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
			Compulsory instructional offerings	
	PHY20AT		Physiology II	24
	ESC10AT		Emergency Service Communication I	12
	PEC12AT		Psycho-psychiatric Emergency Care I	6
	PMC10AT		Pharmacology I	24
			Main instructional offering	
	MCR20AT		Medical Rescue II	
			Module instructional offerings	
	ROP21AT		Rope Rescue II	12
	EXT22AT		Extrication II	12
	RYS22AT		Rescue Systems II	6
			Main instructional offering	
	MMC20AT		* Emergency Medical Care II: Work-integrated Learning	
			Module instructional offerings	
	MDE20AT		Medical Emergencies	12
	TRE20AT		Trauma Emergencies	12
			Compulsory instructional offerings	
		GPH10AT	General Pathology I	24
		ESA10AT	Emergency Service Administration I	12
			Main instructional offering	
		MCR30AT	Medical Rescue III	
			Module instructional offerings	
		ROP31AT	Rope Rescue III	12
		EXT32AT	Extrication III	12
		RYS32AT	Rescue Systems III	6
			Main instructional offering	
		MMC30AT	* Emergency Medical Care III: Work-integrated Learning:	
			Module instructional offerings	
		EPP21AT	Ethics & Professional Practice II	6
		CSP31AT	Cardiovascular Support in the Critical Patient	12
		IAP30AT	Emergency Care of the Ill & Injured Adult & Paediatric Patient	12
		OBN22AT	Obstetrics & Neonatology II	12
		TIP32AT	Transportation of the Ill & Injured Patient	6
			Total:	381

*Work-integrated Learning credits are reflected in the module instructional offerings.

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Emergency Care of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to emergency medical care, as approved.

Work-based learning, a component of Work-integrated Learning, is conducted at approved units identified by CUT and the Professional Board for Emergency Care. The student will be expected to undertake his/her work-based learning according to a formal roster system managed by the learning programme, which includes working over weekends and during academic recesses. The student is expected to comply with the guidelines and code of conduct specified in the programme's standard

operating procedures and the subsequent amendments pertaining to programme requirements, as approved.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

No new first-year intake for the National Diploma: Emergency Medical Care as from 2015.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

A student must meet the minimum physical fitness requirements as specified by the programme before undertaking the practical phase of a rescue module in all three years of the programme.

A student may not register for minor instructional offerings or modules on a subsequent level of study in cases where timetabling conflicts occur. The student must first complete ALL major instructional offerings with his/her module instructional offerings at a particular level of study before progressing to the next level of study. The learning programme is structured in such a way that instructional offerings and modules from previous levels are assumed to be in place, and instructional offerings and modules on subsequent levels are expected to build on previously acquired knowledge, skills and attributes.

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Medical Rescue II

Emergency Medical Care II: Work-integrated Learning

Pre-requisite instructional offerings

All module instructional offerings for Medical Rescue I, Basic Sciences I, and Emergency Medical Care I: Work-integrated Learning

All module instructional offerings for Emergency Medical Care I: Work-integrated Learning, Anatomy & Physiology I, Basic Sciences I, and Emergency Service Technology I

Physiology II	All module instructional offerings for Anatomy & Physiology I and Basic Sciences I
Emergency Service Communication I	All module instructional offerings for Emergency Service Technology I
Emergency Medical Care III: Work-integrated Learning	All module instructional offerings for Emergency Medical Care II: Work-integrated Learning, Physiology II, Pharmacology I, and Emergency Service Communication I
General Pathology I	Pharmacology I and Physiology II
Medical Rescue III	All module instructional offerings for Medical Rescue II and Emergency Medical Care II: Work-integrated Learning
Emergency Service Administration I	Emergency Service Communication I

16.5 NATIONAL DIPLOMA: ENVIRONMENTAL HEALTH THNDEV

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 375
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANF10AT			Anatomy & Physiology I	24
FEC10AT			Physics & Chemistry I	24
GMO10AT			Community Development I	24
MBO10BT			Microbiology I	24
OMB10AT			Environmental Planning I	24
PRE1A PRE2B			English Proficiency and English Proficiency	9
	BGV20AT		Occupational Health & Safety II	24
	EPI20AT		Epidemiology II	24
	GMO20AT		Community Development II	24
	OAW20AT		Environmental Pollution: Waste & Water II	24
	VVH20AT		Food & Meat Hygiene II	24
		BGV30AT	Occupational Health & Safety III	24
		FBS30AT	Management Practice III	30
		EPI30AT	Epidemiology III	24
		OLG30AT	Environmental Pollution: Air & Noise III	24
		VVH30AT	Food & Meat Hygiene III	24
Total:				375

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Environmental Health Practitioners of the Health Professions Council of South Africa, as stipulated in Government Gazette R1869, dated 79.08.24.

At least 25 working days during the first and second years of study and at least 40 working days in the third year of study are to be completed under the supervision of a registered environmental health practitioner.

Instructional offerings at all levels are assessed internally by CUT. Third-level instructional offerings, however, are moderated externally. Practical assessments in the instructional offering Food & Meat Hygiene III are conducted internally by CUT.

In cases where a practical assessment is administered, the final assessment mark is awarded for both the theory and practical components.

Directly upon receiving the national diploma, all students are expected to perform 12 months of compulsory community service.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Since the physical, chemical and biological stressors to which students are exposed during the practical component of the programme may be detrimental to the health of an unborn child, a female student is not permitted to complete the practical section of the programme during pregnancy. Any student who suspects she may be pregnant must notify the relevant head of department immediately. Such a student must discontinue Food & Meat Hygiene III (VVH30AT) (if registered). It is also recommended that the student discontinues the following instructional offerings (if registered) for the full duration of her pregnancy:

- MBO10AT Microbiology I
- BGV 20AT Occupational Health & Safety II
- OAW20AT Environmental Pollution: Waste & Water II
- BGV30AT Occupational Health & Safety III

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade in any **two** of the following subjects is required: Biology, Physical Science and Mathematics. Geography and/or Physiology are recommended.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in both Life Science **and** Physical Science, **as well as** a minimum mark of 40% in Mathematics.

A candidate might be recommended for, and must then successfully complete, a selection process for admission to the learning programme, and meritorious exceptions may be considered for the ECP.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Food & Meat Hygiene II
Environmental Pollution: Waste & Water II
Epidemiology II
Occupational Health & Safety II

Community Development II
Food & Meat Hygiene III
Environmental Pollution: Air & Noise III

Epidemiology III
Occupational Health & Safety III
Management Practice III

Pre-requisite instructional offerings

Microbiology I
Environmental Planning I
Microbiology I
Physics & Chemistry I **or**
Anatomy & Physiology I
Community Development I
Food & Meat Hygiene II
Environmental Pollution:
Waste & Water II
Epidemiology II
Occupational Health & Safety II
Community Development II

16.6 NATIONAL DIPLOMA: FIRE TECHNOLOGY THNDFU

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 360
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

1ST YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
NDB11AT	NDB12AT	Emergency Management I	14
FCN11AT	FCN12AT	Fire Construction I	14
FHD11AT	FHD12AT	Fire Hydraulics I	14
CND11AT	CND12AT	Chemistry: Emergency Services I	14
FND11AT	FND12AT	Physics: Emergency Services I	14
FRT11AT	FRT12AT	Fire Technology I	14
*FTP11AT	*FTP12AT	Fire Technology: Work-integrated Learning I	28
PRE1A		English Proficiency and	
PRE2B		English Proficiency	9
	PRE2A	English Proficiency and	
	PRE1B	English Proficiency	9
Total:			122

2ND YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
NDB21AT	NDB22AT	Emergency Management II	15
FCN21AT	FCN22AT	Fire Construction II	15
FHD21AT	FHD22AT	Fire Hydraulics II	15
FRC21AT	FRC22AT	Fire Chemistry II	15
FRP21AT	FRP 22AT	Fire Physics II	15
FRT21AT	FRT22AT	Fire Technology II	15
*FTP21AT	*FTP22AT	Fire Technology: Work-integrated Learning II	30
Total:			121

3RD YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
NDB31AT	NDB32AT	Emergency Management III	15
FCN31AT	FCN32AT	Fire Construction III	15
FHD31AT	FHD32AT	Fire Hydraulics III	15
FRC31AT	FRC32AT	Fire Chemistry III	15
FRP31AT	FRP 32AT	Fire Physics III	15
FRT31AT	FRT32AT	Fire Technology III	15
*FTP31AT	*FTP32AT	Fire Technology: Work-integrated Learning III	30
Total:			121

REMARKS

This programme is in its phasing-out stage and will end at the end of the first semester 2015. Thus no entrants may enter the programme anymore.

*One year of work-integrated learning, presented or acknowledged by the Mangaung Fire Department, is a pre-requisite for the completion of this learning programme.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, the candidate must have at least three years' appropriate working experience. The employer's recommendation is required.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, the candidate must have at least three years' appropriate working experience. The employer's recommendation is required.

At least three years of appropriate in-service training or work experience, including FF1, FF2 and HAZMAT. The employer's recommendation is required.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

Optional instructional offerings

All instructional offerings are compulsory – three semester modules per semester per year.

PRE-REQUISITES

Refer to paragraph 1 under the heading "Admission to a higher level of study" (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy Programme.

**16.7 NATIONAL DIPLOMA: RADIOGRAPHY (DIAGNOSTIC) TANDDA
NATIONAL DIPLOMA: RADIOGRAPHY (THERAPY) TANDAA**

This learning programme will be offered in Bloemfontein.

The Bachelor of Radiography in Diagnostics will replace the National Diploma: Radiography (Diagnostic), and no new admissions for the first year will be accepted in 2015.

SAQA CREDITS: 360
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

2 ND YEAR	3 RD YEAR Specific discipline	INSTRUCTIONAL OFFERINGS	CREDITS
RAD20AT		Radiographic Practice II (D)	24
RAT20AT		Radiographic Practice II (T)	36
KLD20AT		Clinical Radiographic Practice II (D): Work-integrated Learning	24
KLT20AT		Clinical Radiographic Practice II (T)	48
SWT20AT		Radiation Science II	0
BRE20AT		Image Recording II	24
STF20AT		Radiation Physics II	24
PTO20AT		Radiographic Pathology II	24
	Diagnostic		
	RAD30AT	Radiographic Practice III (D)	36
	KLD30AT	Clinical Radiographic Practice III (D): Work-integrated Learning	48
	SWD30AT	Radiation Science III (D)	24
	RAB30AT	Radiographic Management III (D)	12
	Therapy		
	RAT30AT	Radiographic Practice III (T)	36
	KLT30AT	Clinical Radiography Practice III (T): Work-integrated Learning	48
	SWT30AT	Radiation Science III (T)	24
	SIL30AT	Applied Psychology III (T)	24
	BIO30AT	Radiobiology III (T)	24
Total:			383

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to radiography, as approved.

The option to study Therapy can only be executed upon successful completion of the National Diploma: Radiography (Diagnostic). The therapy programme will only be offered for a minimum of five (5) students per year of study.

Work-based learning, a component of Work-integrated Learning, is conducted simultaneously with formal training in a training unit, as approved by the Professional Board for Radiography and Clinical Technology. The student is placed as a student radiographer at an accredited hospital and undergoes work-based learning for a specific number of hours, as prescribed by the Professional Board for Radiography and Clinical Technology. Work-integrated learning can make it practically impossible for a student to take instructional offerings on two academic levels in a single academic year. A student who fails is assessed on an individual basis in respect of continuation of studies.

To qualify for a national diploma in an additional category (e.g. Therapy), a student who has already obtained a National Diploma in Radiography must pass the instructional offerings with 50% additional credits in the additional category.

Assessment: Formative and Summative.

Work-integrated Learning: Clinical Radiography I, II & III (Diagnostic or Therapy) are assessed in practice (continuously). Practical competency and skills are assessed according to specific guidelines.

The radiation to which a radiographer is exposed may be detrimental to the health of an unborn child. Since students are exposed to radiation during the practical component of the learning programme, a female student is not permitted to complete the practical part of the learning programme during pregnancy. Any student who suspects she may be pregnant must notify the relevant head of department immediately. Such a student must discontinue the learning programme for the full duration of her pregnancy.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Science and Physical Science, as well as a minimum mark of 40% in Mathematics, is required.

A candidate must successfully complete the selection process for admission to this learning programme.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

Radiographic Practice II (D), (T) and
Clinical Radiographic Practice II (D): Work-integrated
Learning, Clinical Radiographic Practice II (T): Work-
integrated Learning

Radiation Science II (Image Recording and
Radiation Physics)
Radiographic Pathology II

Radiographic Practice III (D) and
Clinical Radiographic Practice III (D): Work-integrated
Learning

Radiographic Practice III (T) and
Clinical Radiographic Practice III (T): Work-integrated
Learning

Radiation Science III (D) & (T)
Radiobiology III (T)

Pre-requisite instructional offerings

Radiographic Practice I and
Clinical Radiographic Practice I: Work-
integrated Learning, Radiography I

Radiation Science I (Image Recording and
Physics & Chemistry)
Anatomy I, Physiology I and
Radiographic Pathology I

Radiographic Practice II (D) and
Clinical Radiographic Practice II (D):
Work-integrated Learning

Radiographic Practice II (T) and
Clinical Radiographic Practice II (T):
Work-integrated Learning

Radiation Science II (Image Recording
and Radiation Physics)

16.8 NATIONAL DIPLOMA: SOMATOLOGY THNDGI

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 369
NQF LEVEL: 6
DURATION OF LEARNING PROGRAMME: 3 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
SOM10AT			Soma Techniques I (main instructional offering)	0
SMT10AT			Soma Techniques I (Theory) (module instructional offering)	24
SFT10AT			Soma Techniques I: Facials Theory	
SPT10AT			Soma Techniques I: Manicures Theory	
SMP10AT			Soma Techniques I (Practical) (module instructional offering)	24
SPF10AT			Soma Techniques I: Facials Practical	
SPP10AT			Soma Techniques I: Manicures Practical	
SLP10AT			Soma Techniques I: Swedish Practical	
SXP10AT			Soma Techniques I: Wax Practical	
SMR12AT			Computer Skills I (module instructional offering)	6
EST10BT			Aesthetics I	12
BTK10AT			Biotics I	6
WSP10AT			Science I (Theory and Practical)	12
AFI10CT			Anatomy & Physiology I	18
CCS10AT			Communication Skills I	6
VDN10AT			Nutrition I	6
PRE1A PRE2B	SOM20AT		English Proficiency and English Proficiency Soma Techniques II (main instructional offering)	9 0
	SMT20AT		Soma Techniques II (Theory) (module instructional offering)	24
	SFT20AT		Soma Techniques II: Facials Theory	
	SST20AT SAT20AT		Soma Techniques II: Slimming Theory Soma Techniques II: Aromatherapy Theory	
	SRT20AT		Soma Techniques II: Reflexology Theory	
	SLT20AT SDT20AT		Soma Techniques II: MLD Theory Soma Techniques II: Diathermy Theory	
	SMP20AT		Soma Techniques II (Practical) (module instructional offering)	36
	SPF20AT		Soma Techniques II: Facials Practical	
	SSP20AT		Soma Techniques II: Slimming Practical	
	AP20AT SRP20AT SLP20AT		Soma Techniques II: Aromatherapy Practical Soma Techniques II: Reflexology Practical Soma Techniques II: MLD Practical	
	SDP20AT		Soma Techniques II: Diathermy Practical	

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
	BTK20AT WSP20AT		Biotics II Science II (Theory and Practical)	6 12
	AFG20BT SAK10BB SSK10AT		Anatomy & Physiology II Business Practice I Socio-psychology I	18 6 12
	VDN20AT	SOM30AT	Nutrition II Soma Techniques III (main instructional offering)	6 0
		SMT30AT	Soma Techniques III (Theory) (module instructional offering)	24
		SFT30AT	Soma Techniques III: Facials Theory	
		SST30AT	Soma Techniques III: Slimming Theory	
		SAT30AT SRT30AT	Soma Techniques III: Aromatherapy Theory Soma Techniques III: Reflexology Theory	
		SIT30AT	Soma Techniques III: IPL Theory	
		SCT30AT SMP30AT	Soma Techniques III: Aromatherapy Chemistry Theory Soma Techniques III (Practical) (module instructional offering)	36
		SFP30AT SSP30AT SAP30AT	Soma Techniques III: Facials Practical Soma Techniques III: Slimming Practical Soma Techniques III: Aromatherapy Practical	
		SRP30AT SIP30AT BTK30AT	Soma Techniques III: Reflexology Practical Soma Techniques III: IPL Practical Biotics III	6
		SSK20AT VDN30AT SAK20AB	Socio-psychology II Nutrition III Business Practice II	12 6 6
		BWS30AT SOP20AT	Applied Biological Sciences III Work-integrated Learning: Soma Techniques Project II	6 30
Total:				396

REMARKS

In the third year of study, the student must complete 300 hours of work-integrated learning in one or more accredited salons. Only the weekly hours scheduled on the timetable are taken into account. In the event of a student deciding to work overtime or on a Saturday, Sunday or public holiday, this is considered a separate agreement between the student and the salon owner, and those hours are not taken into account in the accumulation of the required 300 hours. Work-integrated Learning: Soma Techniques Project II (SOP 20AT) is a year instructional offering and is to be completed in full to allow the student to pass the instructional offering. A student is responsible for her own placement at an accredited salon/clinic, as well as the necessary travel arrangements.

Work-integrated learning (WIL) will be scheduled for the months of December to February, for applicable and beneficial exposure at spas and resorts.

Before the national diploma can be awarded, the student must have earned the recognised first-aid certificate, as well as diplomas from certain product houses, as required by the course.

A candidate only qualifies for the CIDESCO assessment if:

1. She achieves a minimum of 60% in both the theoretical and practical components of the instructional offering Soma Techniques III during the first and second quarters; and
2. She passes all first-year and second-year instructional offerings of the National Diploma: Somatology.

A subminimum of 50% for each section of the practical (SMP) and theoretical (SMT) assessment, as well as a minimum of 50% for the paper as a whole, is required for a student to pass the main instructional offering (SOM).

For example, if SMP20AT consists of theoretical and practical sections (Facials, Slimming, Aromatherapy & Reflexology, Manual Lymph Drainage (MLD) and Diathermy), the student must obtain at least 50% in each separate section in order to pass SMP20AT. Should a student fail even one of the sections, she will be required to re-register for SMP20AT in its entirety and pass all sections successfully before she will be permitted to register for SMP30AT.

A student may be refused admission to the assessment if she has been absent from more than two practical periods in a term. This rule is applicable to each separate practical section.

It is compulsory for a student to dress in the prescribed uniform and shoes (refer to the general rules applicable to the Somatology programme).

Since the electrical apparatus to which students are exposed during the practical component of the learning programme may prove detrimental to the health of an unborn child, a female student is not permitted to complete the practical part of the learning programme during pregnancy. Any student who suspects she may be pregnant must notify the relevant head of department immediately.

Upon successful completion of this qualification, a national diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in Physical Science **or** Biology **or** Physiology is required. Mathematics is recommended.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Science **or** Physical Science is required.

A candidate must successfully complete the selection process for admission to this learning programme.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Academic Literacy requires the successful completion of two instructional offerings, A and B, in this specific order.

A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy programme.

Instructional offerings

- Soma Techniques II
- Soma Techniques III
- Biotics II
- Biotics III
- Science II
- Anatomy & Physiology II
- Nutrition II
- Nutrition III
- Socio-psychology II
- Business Practice II
- Work-integrated Learning: Soma Techniques Project II

Pre-requisite instructional offerings

- Soma Techniques I
- Soma Techniques II
- Biotics I
- Biotics II
- Science I
- Anatomy & Physiology I
- Nutrition I
- Nutrition II
- Socio-psychology I
- Business Practice I
- Soma Techniques I & II

17. HIGHER CERTIFICATE

17.1 HIGHER CERTIFICATE: DENTAL ASSISTING HLHCDL

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 141
NQF LEVEL: 5
DURATION OF LEARNING PROGRAMME: 1 year full-time

Instructional offerings

1ST YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
LCS5001	Academic Literacy and Communication Studies	9
TAT5000	Dental Assisting: Theory I	24
TAP5000	Dental Assisting: Practical I	24
TPB5000	Dental Practice Management I	24
THE5011	Dental Practice: Work-integrated Learning	36
MAP5000	Oral Anatomy and Pathology I	24
PIM5011	Personal Information Management	
Total:		141

This programme can be presented on a full-time basis over a period of one year or on a part-time basis over a minimum period of two years.

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Dental Therapy and Oral Hygiene of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to dental assisting, as approved. A minimum of 480 hours of work-integrated learning at dental clinics, hospitals and/or private dental practices is required.

Assessment: Formative and Summative.

Practical competency and skills are assessed according to specific guidelines, which include Dental Assisting: Practical and Computer Literacy. It is compulsory for students to adhere to the stipulated ethical rules and dress code during practical and work-integrated learning sessions.

The radiation to which a dental assistant is exposed may be detrimental to the health of an unborn child. Due to the important practical component of the course, during which students are exposed to radiation, a female student may not complete the practical part of her course during pregnancy. Any student who suspects she may be pregnant must notify the head of department immediately.

Upon successful completion of this qualification, a national certificate will be awarded during the official graduation ceremony of the CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 50% on standard grade or 40% on higher grade in Biology/Physiology is required.

For candidates who completed the NSC in 2008 and thereafter:

In addition to the general admission requirements, a minimum mark of 50% in Life Sciences is required.

Minimum requirements

- The minimum requirements for enrolment are an FETC with six 20-credit-bearing subjects with a rating of four, and a minimum rating of one for Life Orientation (thus a total credit value of at least 25).
- An aptitude test if the candidate has passed four FETC credit-bearing designated subjects with a rating of four, plus two 20-credit-bearing designated subjects with a rating of three, and a minimum rating of one for Life Orientation (thus a total credit value of at least 23).
- English as a language subject (home or additional), with a minimum rating of three.

In addition to the above:

- Life Science (rating 4).

Note: If more applications are received than can be accommodated by the learning programme, selection will be based on academic merit.

(Note: The minimum value of 25 is calculated as follows: 6 x 4 for six 20-credit-bearing subjects at level four, plus one for Life Orientation at level three.)

A candidate who fails one or more instructional offerings must re-apply for admission.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

No student will be allowed to graduate without completing the Academic Literacy programme.

It is compulsory for candidates who wish to enrol for the part-time programme to be employed by a dental practitioner as a dental assistant.

18. ADVANCED DIPLOMA

18.1 ADVANCED DIPLOMA IN AGRICULTURAL EXTENSION TLADAE

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 120
NQF LEVEL: 7
DURATION OF LEARNING PROGRAMME: 1 year

Instructional offerings

4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Compulsory instructional offerings		
AEE7000	Agricultural Economics for Extension	24
BCI7000	Behaviour Change and Intervention in Extension	18
APA7000	Extension and Advisory Principles and Approaches	24
LGN7000	Leadership, Group Dynamics and Networking in Extension	18
PPI7000	Project Planning, Implementation and Evaluation in Extension	18
Optional instructional offerings		
APR7000	*Animal Production	18
PPR7000	*Plant Production	18
Total:		120

REMARKS

Upon successful completion of this qualification, an advanced diploma will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Diploma: Agricultural Management, or equivalent qualification, with the appropriate instructional offerings.

Optional instructional offerings

Instructional offerings marked with an asterisk (*).

PRE-REQUISITES

Refer to paragraph 1 under the heading "Admission to a higher level of study" (point 11 of this chapter).

19. BACCALAUREUS TECHNOLOGIAE DEGREES

19.1 BACCALAUREUS TECHNOLOGIAE: AGRICULTURAL MANAGEMENT TLBTLA

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 120
NQF LEVEL: 7
DURATION OF LEARNING PROGRAMME: 1 year

Instructional offerings

4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Compulsory instructional offerings		
FIN40AT	Financial Management: Agriculture IV	27
STG40AT	Strategic Management: Agriculture IV	27
LEA20AT	Leadership Development II	27
Optional instructional offerings		
ANI40AT	*Animal Production IV	27
PLT40AT	*Plant Production IV	27
Total:		120

**Optional instructional offerings.*

REMARKS

The fourth academic year of the Baccalaureus Technologiae: Agricultural Management is offered on a full-time or part-time block basis.

Upon successful completion of this qualification, a Baccalaureus Technologiae degree will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Diploma: Agricultural Management or equivalent qualification with the appropriate instructional offerings.

Optional instructional offerings

Instructional offerings marked with an asterisk (*).

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Instructional offerings	Pre-requisite instructional offerings
Financial Management: Agriculture IV Strategic Management: Agriculture IV Animal Production IV Plant Production IV Leadership Development II	Agricultural Management III Agricultural Management III Animal Production III Plant Production III Human Resources Management: Agriculture I

19.2 BACCALAUREUS TECHNOLOGIAE: BIOMEDICAL TECHNOLOGY TABTBH

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 120
NQF LEVEL: 7
DURATION OF LEARNING PROGRAMME: 1 year

Instructional offerings

4TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
LMN21AT LMN22AT	Laboratory Management or Laboratory Management	12
NMT21BT NMT22BT	Research Methods & Techniques and Research Methods & Techniques	12 12
IPT40AT	Integrated Pathophysiology IV	24
BCH40AT PJT40AT	Biochemistry IV Project	24 36
Total:		120

The fourth academic year can be presented on a full-time basis over a period of one year or on a part-time basis over a minimum period of two years.

REMARKS

The student must complete two fourth-level instructional offerings as indicated. A compulsory research project must preferably be completed during the year in which ONE of the fourth-level instructional offerings is selected. If this is not feasible, the student must complete the research project within three years after completing the fourth-level subjects in order to qualify for the degree. The project supervisor or co-supervisor must be an employee of CUT.

The student must ensure that he/she has met the requirements with regard to ethical clearance (where applicable), since failure to do so may prevent the assessment of the research protocol and thesis.

CUT reserves the right to present certain instructional offering combinations at fourth-year level. Upon successful completion of this qualification, a Baccalaureus Technologiae degree will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Diploma: Biomedical Technology or equivalent qualification with the appropriate instructional offerings.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Instructional offerings

Compulsory Research Project or simultaneously with
Research Methods & Techniques

Pre-requisite instructional offerings

Research Methods & Techniques

19.3 BACCALAUREUS TECHNOLOGIAE: CLINICAL TECHNOLOGY TABTNI

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 120
NQF LEVEL: 7
DURATION OF LEARNING PROGRAMME: 1 year

Instructional offerings

4TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Compulsory instructional offerings		
BGS11AT BGS12AT	Principles of Management I or Principles of Management I	12
NMT21CT NMT22CT	Research Methodology: Natural Sciences and Research Methodology: Natural Sciences	12 12
Optional instructional offerings		
One of the following instructional offerings corresponding with the third-year choice:		
KAR40AT KDP40AT	Work-integrated Learning: Cardiology IV (main instructional offering) Cardiology IV Project (module instructional offering)	42
KDT40AT KRI40AT KIT40AT	Cardiology IV Theory/Practical (module instructional offering) Work-integrated Learning: Critical Care IV (main instructional offering) Critical Care IV Project (module instructional offering)	42 42 42
KIP40AT NEF40AT NFP40AT	Critical Care IV Theory/Practical (module instructional offering) Work-integrated Learning: Nephrology IV (main instructional offering) Nephrology IV Project (module instructional offering)	42 42 42
NFT40AT NEU40AT NGP40AT	Nephrology IV Theory/Practical (module instructional offering) Work-integrated Learning: Neurophysiology IV (main instructional offering) Neurophysiology IV Project (module instructional offering)	42 42 42
NGT40AT PER40AT RFP40AT	Neurophysiology IV Theory/Practical (module instructional offering) Work-integrated Learning: Perfusion IV (main instructional offering) Perfusion IV Project (module instructional offering)	42 42 42

4TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Optional instructional offerings		
One of the following instructional offerings corresponding with the third-year choice:		
RFT40AT	Perfusion IV Theory/Practical (module instructional offering)	42
REP40AT	Work-integrated Learning: Reproductive Biology IV (main instructional offering)	
RBP40AT	Reproductive Biology IV Project (module instructional offering)	42
RBT40AT	Reproductive Biology IV Theory/Practical (module instructional offering)	42
PUL40AT	Work-integrated Learning: Pulmonology IV (main instructional offering)	
PYP40AT	Pulmonology IV Project (module instructional offering)	42
PYT40AT	Pulmonology IV Theory/Practical (module instructional offering)	42
Total:		120

The fourth academic year can be presented on a full-time basis over a period of one year or on a part-time basis over a minimum period of two years.

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa (HPCSA) in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to clinical technology, as approved.

Instructional offerings at fourth-year level are taken together with Work-integrated Learning in an accredited training unit and in a specific category, as approved by the Professional Board for Radiography and Clinical Technology and CUT, in co-operation with CUT, the employer and the Professional Board. The student must comply with 1 800 hours for the year, set as the minimum requirement by the HPCSA.

A compulsory research project in a fourth-level instructional offering must be completed. A written research proposal must reach the head of department, as stipulated in the Baccalaureus Technologiae instruction manual. The student must ensure that he/she has met the requirements with regard to ethical clearance, since failure to do so may prevent the assessment of the research protocol and thesis. The internal supervisor of the project must be an employee of CUT. CUT reserves the right to present certain instructional offering combinations at fourth-year level.

Upon successful completion of this qualification, a Baccalaureus Technologiae degree will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Diploma: Clinical Technology or equivalent qualification with the appropriate instructional offerings.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Instructional offering

Fourth-level instructional offerings

Pre-requisite instructional offering

Pharmacology II

19.4 BACCALAUREUS TECHNOLOGIAE: ENVIRONMENTAL HEALTH THBTEM

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 120
NQF LEVEL: 7
DURATION OF LEARNING PROGRAMME: 1 year

Instructional offerings

4TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Compulsory instructional offerings		
NMD10AT	Research Methodology I	30
FBS40AT	Management Practice IV	30
Optional instructional offerings		
Plus any two of the following:		
VDH40BT	Food Hygiene IV	30
BGV40AT	Occupational Health & Safety IV	30
WAT40AT	Water Quality Management IV	30
EPY40AT	**Environmental Epidemiology IV	30
AFV40AT	Waste Management IV	30
VHG40AT	*Meat Hygiene IV	30
LUG40AT	*Air Pollution IV	30
Total:		120

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Environmental Health Practitioners of the Health Professions Council of South Africa, as stipulated in Government Gazette R1869, dated 79.08.24.

Instructional offerings at all levels are assessed internally by CUT. Fourth-level instructional offerings, however, are moderated externally.

At fourth-year level, instructional offerings from the list of options may only be taken if all learning units of the instructional offerings have been passed at third-year level. Instructional offerings marked with an asterisk (*) under "Optional instructional offerings" are not offered at CUT. Instructional offerings marked with a double asterisk (**) will be considered on the basis of demand.

Upon successful completion of this qualification, a Baccalaureus Technologiae degree will be awarded during an official graduation ceremony of CUT.

Since the physical, chemical and biological stressors to which students may be exposed during the practical component of the research project could prove detrimental to the health of an unborn child, a pregnant student might not be permitted to complete the practical section of the research project, depending on the type of project. Any student who suspects that she may be pregnant must notify the relevant head of department immediately. It is recommended that the student, after consulting with the lecturer, discontinues any research activity that may pose a risk to her pregnancy.

Admission requirements

A National Diploma: Environmental Health or equivalent qualification with a minimum average mark

of 55% for the qualification with the appropriate instructional offerings.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

All prospective students will be subject to a selection process.

Students who are employed full-time or engaged in community service will not be allowed to register on a full-time basis.

19.5 BACCALAUREUS TECHNOLOGIAE: RADIOGRAPHY (DIAGNOSTIC) TABTDC BACCALAUREUS TECHNOLOGIAE: RADIOGRAPHY (THERAPY) TABTOT

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 120
NQF LEVEL: 7
DURATION OF LEARNING PROGRAMME: 1 year

Instructional offerings

4 TH YEAR Diagnostic	4 TH YEAR Therapy	INSTRUCTIONAL OFFERINGS	CREDITS
BSB10BT		Management Principles & Practice I	24
NMT20BT		Research Methods & Techniques	24
RAD40AT		Radiographic Practice IV (D)	72
	BSB10BT	Management Principles & Practice I	24
	NMT20BT	Research Methods & Techniques	24
	RAT40AT	Radiographic Practice IV (T)	72
Total:			120

The fourth academic year can be presented on a full-time basis over a period of one year or on a part-time basis over a minimum period of two years.

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to radiography, as approved.

Computer literacy and skills, as well as internet access, are recommended due to the structure and presentation of the learning programme.

Upon successful completion of this qualification, a Baccalaureus Technologiae degree will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Diploma: Radiography or equivalent qualification with the appropriate instructional offerings.

An applicable National Diploma in Radiography or equivalent qualification, subject to the recognition of prior learning in accordance with the policies and procedures of CUT.

A candidate must successfully complete the selection process for the Baccalaureus Technologiae programme.

A compulsory research project in a fourth-level instructional offering must be completed. A written research proposal must reach the head of department before the end of March of the year in which the fourth-level instructional offering is taken. The project supervisor or co-supervisor must be an employee of CUT. CUT reserves the right to present certain instructional offering combinations at fourth-year level.

Optional instructional offerings

All instructional offerings are compulsory.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

19.6 BACCALAUREUS TECHNOLOGIAE: SOMATOLOGY THBTLO

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 120
NQF LEVEL: 7
DURATION OF LEARNING PROGRAMME: 1 year

Instructional offerings

4TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
	Compulsory instructional offerings	
SOM40AT	Soma Techniques IV (main instructional offering)	0
SMT40AT	Soma Techniques IV (Theory) (module instructional offering)	16
SMP40AT	Soma Techniques IV (Practical) (module instructional offering)	16
NMT20CT	Research Methodology: Natural Sciences	30
SPJ40AT	Somatology Project IV	34
BTK40AT	Biotics IV	12
VDG40AT	Nutrition IV	12
	Total:	120

The fourth academic year can be presented on a full-time basis over a period of one year or on a part-time basis over a minimum period of two years.

REMARKS

A student must pass all the instructional offerings up to third-year level before being permitted to register for the fourth year.

It is compulsory for a student to dress in the prescribed uniform and shoes.

A compulsory research project in a fourth-level instructional offering must be completed. A written research proposal must reach the head of department, as stipulated in the Baccalaureus Technologiae instruction manual. The student must ensure that she has met the requirements with regard to ethical clearance, since failure to do so may prevent the assessment of the research protocol and thesis.

Upon successful completion of this qualification, a Baccalaureus Technologiae degree will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Diploma: Somatology or equivalent qualification with the appropriate instructional offerings.

A candidate must successfully complete the selection process for the Baccalaureus Technologiae programme.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

Instructional offerings

Soma Techniques IV
Biotics IV
Nutrition IV
Business Practice III

Pre-requisite instructional offerings

Soma Techniques III
Biotics III
Nutrition III
Business Practice II

20. BACHELOR DEGREE: EXTENDED CURRICULUM PROGRAMME

20.1 BACHELOR OF RADIOGRAPHY IN DIAGNOSTIC (ECP) EXBCDR

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 552
NQF LEVEL: 8
DURATION OF LEARNING PROGRAMME: 5 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANA00FP			Anatomy	12
PHY00FP			Physiology	12
CHM00FP			Chemistry	6
FIS00FP			Physics	6
WIS00FP			Mathematics	6
COR00FP			Core Curriculum (main instructional offering)	30
LCS5001			Academic Literacy and Communication Studies (module instructional offering)	12
NMR5011			Numeracy (module instructional offering)	6
DLC5001			Basic Digital Literacy (module instructional offering)	6
ADC5022			Advanced Digital Literacy (module instructional offering)	6
PIM5011			Personal Information Management	0
	ANA5001		Anatomy I	24
	PCM5022		Patient Care Management I	12
	PTH5022		Pathology I	12
	STF5000		Radiation Physics I	24
	RDP5000		Radiographic Procedures I	12
	RCP5022		Research Principles I	12
		ANR6000	Anatomy & Physiology II	24
		IMT6000	Imaging Technology II	12
		PCM6000	Patient Care Management II	12
		PTH6000	Pathology II	12
		STF6000	Radiation Physics II	12
		RAD6000	Radiographic Practice II	24
		RDP6000	Radiographic Procedures II	24
		RCP6000	Research Principles II	12

4 TH YEAR	5 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
IMT7000		Imaging Technology III	12
PCM7000		Patient Care Management III	12
PTH7000		Pathology III	12
STF7000		Radiation Physics III	12
RAD7000		Radiographic Practice III	24
RDP7000		Radiographic Procedures III	24
RCP7000		Research Principles III	12
SPR7000		Anatomy & Physiology III	24

4 TH YEAR	5 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
	PCM8000	Patient Care Management IV	6
	PTH8000	Pathology IV	12
	PRF8000	Professional Practice of Radiography IV	42
	STF8000	Radiation Physics IV	6
	RAD8000	Radiographic Practice IV	12
	RDP8000	Radiographic Procedures IV	30
	RCP8000	Research Principles IV	6
	SPR8000	Anatomy & Physiology IV	12
Total:			552

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to radiography, as approved.

Workplace learning, a component of Work-integrated Learning, is conducted simultaneously with formal training in a training unit, as approved by the Professional Board for Radiography and Clinical Technology. The student is placed as a student radiographer at an accredited hospital and undergoes workplace learning for a specific number of hours, as prescribed by the Professional Board for Radiography and Clinical Technology. **The required work-integrated learning in the programme makes it practically impossible for a student to take instructional offerings on two academic levels in a single academic year. A student who fails will thus be assessed on an individual basis in respect of continuation of studies.**

A student cannot progress to the next level if all pre-requisites for the work-integrated learning component of the programmes are not successfully attained (e.g. continuous assessment rubrics, portfolios).

Assessment: Formative and Summative

Work-integrated Learning: Radiographic Procedures I, II, III & IV (Diagnostic) are assessed at CUT and in clinical practice on a continuous basis. Practical competency and skills are assessed according to specific guidelines.

The radiation to which a radiographer is exposed may be detrimental to the health of an unborn child. Since students are exposed to radiation during the practical component of the learning programme, **a female student is not permitted to complete the practical part of the learning programme during pregnancy.** Any student who suspects she may be pregnant must notify the relevant head of department immediately. **Such a student must discontinue the learning programme for the full duration of her pregnancy.**

Upon successful completion of this qualification, a Bachelor degree in Radiography (Diagnostics) will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

A minimum of 30 points on the M-score.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 60% on standard grade or 50% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

The candidate must be in possession of the NCS with endorsement for a bachelor's degree. In addition to the general admission requirements, a minimum mark of level 3 pass (40 – 49%) in Life Orientation and level 4 pass (50 – 59%) in Life Science, Physical Science and Mathematics is required. A minimum admission score (APS) of 30 points on the CUT scale of notation is required.

A candidate must successfully complete the selection process for admission to this learning programme. Provisionally selected students are subject to a second round of selections after submission of the NSC results. Should a prospective student have forfeited his/her selection, he/she might be considered for the limited number of ECP placements.

All instructional offerings are compulsory.

PRE-REQUISITES

Considering that the ECP is subject to additional funding being made available by the Department of Higher Education and Training, a student will not be allowed to repeat the first year or part of the first year of the ECP. **A student must pass all first-year instructional offerings in order to continue with second-year instructional offerings of the ECP. A student may not change from the ECP to the regular programme.**

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

In addition to the radiography-related offerings in the programme, the following offerings, as prescribed by the institution, are also compulsory: Personal Information Management, Academic Literacy and Communication Studies, Basic and Advanced Digital Literacy, and Success skills. **No student will be allowed to graduate without successfully completing the above instructional offerings.**

Instructional offerings

Anatomy & Physiology II
Imaging Technology III
Pathology II
Pathology III
Patient Care & Management II
Patient Care & Management III
Patient Care & Management IV
Radiation Physics II
Radiation Physics III
Radiation Physics IV
Radiographic Practice II
Radiographic Practice III
Radiographic Practice IV
Radiographic Procedures II
Radiographic Procedures III
Radiographic Procedures IV

Pre-requisite instructional offerings

Anatomy I
Imaging Technology II
Pathology I
Pathology II
Patient Care & Management I
Patient Care & Management II
Patient Care & Management III
Radiation Physics I
Radiation Physics II
Radiation Physics III
Radiographic Procedures I
Radiographic Practice II
Radiographic Practice III
Radiographic Procedures I
Radiographic Procedures II
Pathology III, Radiographic Procedures III

Research Principles II
 Anatomy & Physiology III
 Anatomy & Physiology IV
 Professional Practice of Radiography IV

Research Principles I
 Anatomy & Physiology II
 Anatomy & Physiology III

21. BACHELOR DEGREE

21.1 BACHELOR OF RADIOGRAPHY IN DIAGNOSTICS HCBCRD

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 480
NQF LEVEL: 8
DURATION OF LEARNING PROGRAMME: 4 years

Instructional offerings

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
LCS5001				Academic Literacy and Communication Studies	12
ADC5022				Advanced Digital Literacy	6
ANA5001				Anatomy & Physiology I	24
DLC5011				Basic Digital Literacy	6
PCM5011				Patient Care Management I	12
PTH5022				Pathology I	12
PIM5011				Personal Information Management	0
STF5000				Radiation Physics I	24
RDP5000				Radiographic Procedures I	12
RCP5000				Research Principles I	12
	ANR6000			Anatomy & Physiology II	24
	IMT6000			Imaging Technology II	12
	PCM6000			Patient Care Management II	12
	PTH6000			Pathology II	12
	STF6000			Radiation Physics II	12
	RAD6000			Radiographic Practice II	24
	RDP6000			Radiographic Procedures II	24
	RCP6000			Research Principles II	12
		IMT7000		Imaging Technology III	12
		PCM7000		Patient Care Management III	12
		PTH7000		Pathology III	12
		STF7000		Radiation Physics III	12
		RAD7000		Radiographic Practice III	24
		RDP7000		Radiographic Procedures III	24
		RCP7000		Research Principles III	12
		SPR7000		Anatomy & Physiology III	24

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
			PCM8000	Patient Care Management IV	6
			PRF8000	Professional Practice of Radiography IV	42
			STF8000	Radiation Physics IV	6
			RAD8000	Radiographic Practice IV	12
			RDP8000	Radiographic Procedures IV	30
			RCP8000	Research Principles IV	6
			SPR8000	Anatomy & Physiology IV	12
Total:					498

REMARKS

Upon commencing his/her studies, the student must register with the Professional Board for Radiography and Clinical Technology of the Health Professions Council of South Africa in terms of the rules and regulations of the Medical, Dental and Supplementary Health Services Professions Act, 1974 (Act 56 of 1974) and the subsequent amendments pertaining to radiography, as approved.

Workplace learning, a component of Work-integrated Learning, is conducted simultaneously with formal training in a training unit, as approved by the Professional Board for Radiography and Clinical Technology. The student is placed as a student radiographer at an accredited hospital and undergoes workplace learning for a specific number of hours, as prescribed by the Professional Board for Radiography and Clinical Technology. **The required work-integrated learning in the programme makes it practically impossible for a student to take instructional offerings on two academic levels in a single academic year. A student who fails will thus be assessed on an individual basis in respect of continuation of studies.**

A student cannot progress to the next level if all pre-requisites for the work-integrated learning component of the programmes are not successfully attained (e.g. continuous assessment rubrics, portfolios).

Assessment: Formative and Summative

Work-integrated Learning: Radiographic Procedures I, II, III & IV (Diagnostic) are assessed at CUT and in clinical practice on a continuous basis. Practical competency and skills are assessed according to specific guidelines.

The radiation to which a radiographer is exposed may be detrimental to the health of an unborn child. Since students are exposed to radiation during the practical component of the learning programme, **a female student is not permitted to complete the practical part of the learning programme during pregnancy.** Any student who suspects she may be pregnant must notify the relevant head of department immediately. **Such a student must discontinue the learning programme for the full duration of her pregnancy.**

Upon successful completion of this qualification, a Bachelor degree in Radiography (Diagnostics) will be awarded during an official graduation ceremony of CUT.

Admission requirements

A National Senior Certificate or equivalent qualification.

A minimum of 30 points on the M-score.

For candidates who matriculated in 2007 or before:

In addition to the general admission requirements, a minimum mark of 60% on standard grade or 50% on higher grade in all three of the following subjects is required: Biology/Physiology, Physical Science and Mathematics.

For candidates who completed the NSC in 2008 and thereafter:

The candidate must be in possession of the NCS with endorsement for a bachelor's degree. In addition to the general admission requirements, a minimum mark of level 3 pass (40 – 49%) in Life Orientation and level 4 pass (50 – 59%) in Life Science, Physical Science and Mathematics is required. A minimum admission score (APS) of 30 points on the CUT scale of notation is required.

A candidate must successfully complete the selection process for admission to this learning programme.

Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.

All instructional offerings are compulsory.

PRE-REQUISITES

Refer to paragraph 1 under the heading “Admission to a higher level of study” (point 11 of this chapter).

In addition to the radiography-related offerings in the programme, the following offerings, as prescribed by the institution, are also compulsory: Personal Information Management, Academic Literacy and Communication Studies, Basic and Advanced Digital Literacy, and Success skills. **No student will be allowed to graduate without successfully completing the above instructional offerings.**

Instructional offerings

Anatomy & Physiology II
 Imaging Technology III
 Pathology II
 Pathology III
 Patient Care & Management II
 Patient Care & Management III
 Patient Care & Management IV
 Radiation Physics II
 Radiation Physics III
 Radiation Physics IV
 Radiographic Practice II
 Radiographic Practice III
 Radiographic Practice IV
 Radiographic Procedures II
 Radiographic Procedures III
 Radiographic Procedures IV
 Research Principles II
 Anatomy & Physiology III
 Anatomy & Physiology IV
 Professional Practice of Radiography IV

Pre-requisite instructional offerings

Anatomy I
 Imaging Technology II
 Pathology I
 Pathology II
 Patient Care & Management I
 Patient Care & Management II
 Patient Care & Management III
 Radiation Physics I
 Radiation Physics II
 Radiation Physics III
 Radiographic Procedures I
 Radiographic Practice II
 Radiographic Practice III
 Radiographic Procedures I
 Radiographic Procedures II
 Pathology III, Radiographic Procedures III
 Research Principles I
 Anatomy & Physiology II
 Anatomy & Physiology III

22. *MAGISTER TECHNOLOGIAE DEGREE*

These learning programmes will be offered in Bloemfontein.

SAQA CREDITS: 120

NQF LEVEL: 9

PROGRAMME CODE	MAGISTER TECHNOLOGIAE	MAIN CODE	INSTRUCTIONAL OFFERINGS
ILMTLM	Agriculture	THE50AI	Dissertation
TAMTTY	Biomedical Technology	THE50AT	Dissertation
TAMTNG	Clinical Technology	DEL50AT	Dissertation
THMTGH	Environmental Health	VER50AT	Dissertation
TAMTDO	Radiography (Diagnostic)	THS50AT	Dissertation (Diagnostic)
TAMTDO	Radiography (Therapy)	SIS50AT	Dissertation (Therapy)
TAMTDO	Radiography (Nuclear Medicine)	HAN50AT	Dissertation (Nuclear Medicine)
THMTSO	Somatology	TSS50AT	Dissertation

REMARKS

The Magister Technologiae degree is only awarded upon completion of an approved research project and upon submission of a dissertation.

Prospective students may be subject to a selection process.

Upon successful completion of this qualification, a Magister Technologiae degree will be awarded during an official graduation ceremony of CUT.

Admission requirements

A Baccalaureus Technologiae degree or equivalent qualification.

23. *DOCTOR TECHNOLOGIAE DEGREE*

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 240

NQF LEVEL: 10

PROGRAMME CODE	DOCTOR TECHNOLOGIAE	MAIN CODE	INSTRUCTIONAL OFFERINGS
ILD TUL	Agriculture	GEV90AI	Thesis
TADTBX	Biomedical Technology	GEV90AT	Thesis
TADTNH	Clinical Technology	GNP90AT	Thesis
THDTHH	Environmental Health	NAV90AT	Thesis
THDTSC	Somatology	VOR90AT	Thesis

REMARKS

A research proposal is to be submitted within three months of registration, for approval by the relevant head of department.

Prospective students may be subject to a selection process. According to the Student Assessment Manual 2013, prospective students must submit a protocol.

Upon successful completion of this qualification, a Doctor Technologiae degree will be awarded during an official graduation ceremony of CUT.

Admission requirements

A Magister Technologiae degree or equivalent qualification.

24. POSTDOCTORAL STUDIES

PROGRAMME CODE	POSTDOCTORAL STUDIES	MAIN CODE	INSTRUCTIONAL OFFERING
POSTDH	Postdoctoral Studies	RESHLTH	Research: Health & Environmental Sciences