CHAPTER 21

FACULTY OF HEALTH AND ENVIRONMENTAL 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. CERTIFICATE PROGRAMME OFFERED IN THE FACULTY

National Certificate: Dental Assisting

3. HIGHER CERTIFICATE PROGRAMME OFFERED IN THE FACULTY

Higher Certificate: Dental Assisting

4. NATIONAL DIPLOMA: EXTENDED CURRICULUM PROGRAMMES (ECP) 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)

5. 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: Radiography (Therapy)

National Diploma: Somatology

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 (ECP) 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 at no 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 at no 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 reassessment 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 prerequisites (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 to be 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 prerequisites (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 to be 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

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	30
				instructional offering)	
LCS5001				Academic Literacy and	12
				Communication Studies	
NMC00FP				Numeracy (module	6
				instructional offering)	
DGL00FP				Digital Literacy (module	6
				instructional offering)	
ADC5022				Advanced Digital Literacy	6
PIM5011				Personal Information	0
				Management	
	IGT11AT			Introduction to Medical	10
				Technology	
	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
			MKB31BT	Microbiology III	15
			HEM31BT	Haematology III	15
			CHP31BT	Chemical Pathology III	15
			SLP31AT	Cellular Pathology III	15
			LAB31BT /	Work-Integrated Learning	60
			LAB32BT		
				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.

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

Admission requirements

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.

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

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister 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 Anatomy & Physiology

Biochemistry II Chemistry I

Biochemistry II, Calculations and Chemical Pathology I

Statistics

Prerequisite instructional offerings

Microbiology I Immunology II Microbiology I Microbiology II Microbiology III Microbiology II

Chemical Pathology I (Semester 1) Chemical Pathology II (Semester 2) Chemical Pathology III Chemical Pathology II (Semester 2)

Blood Transfusion Technology Immunology II **Blood Transfusion** Haematology II

Technology

Haematology III Haematology II

Cellular Pathology I Anatomy & Physiology I

Cellular Pathology II (Semester 2) Cellular Pathology I (Semester 1) Cellular Pathology III Cellular Pathology II (Semester 2)

Work-Integrated Learning 325 credits passed

15.2 NATIONAL DIPLOMA: CLINICAL TECHNOLOGY (ECP) **HXNDCA**

This learning programme will be offered in Bloemfontein.

SAQA CREDITS: 411 **NOF LEVEL:**

DURATION OF LEARNING PROGRAMME:

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	30
				instructional offering)	
LCS5001				Academic Literacy and	12
				Communication Studies	
NMC00FP				Numeracy (module	6
				instructional offering)	
DGL00FP				Digital Literacy (module	6
				instructional offering)	
ADC5022				Advanced Digital Literacy	6
PIM5011				Personal Information	0
				Management	

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL	CREDITS
				OFFERINGS	
	ANA10AT			Anatomy I	30
	FSL10AT			Physiology I	30
	FSK11BT			Physics I or	
	FSK12BT			Physics I	12
	CHB11CT			Chemistry I or	
	CHB12CT			Chemistry I	12
	BST11AT			Calculations & Statistics I or	
	BST12AT			Calculations & Statistics I	12
	PSI12AT			Psychodynamics I	15
		AFI20CT		Anatomy & Physiology II	27
		BAP20AT		Biomedical Apparatus &	
				Procedures I	30
		OSP20AT		Organ & System	30
				Pathophysiology II	
		FAR20AT		Pharmacology II	27
	Any O	NE (1) of the	seven (7) opti		
			TPC30AT	Work-Integrated Learning:	
			11 00 0111	Cardiology:	40
				Clinical Technology III	
			BMK30CT	Work-Integrated Learning:	
			Biiiii	Cardiology:	40
				Biomedical Apparatus III	10
			CNK30BT	Work-Integrated Learning:	
			CIVILSODI	Cardiology:	40
				Clinical Practice III	10
			TPH30AT	Work-Integrated Learning:	
			111130711	Nephrology:	40
				Clinical Technology Practice III	40
			BMN30CT	Work-Integrated Learning:	
			Bivirvoci	Nephrology:	40
				Biomedical Apparatus III	40
			CNN30BT	Work-Integrated Learning:	
			CIVIVSOBI	Nephrology:	40
				Clinical Practice III	40
			TPN30AT	Work-Integrated Learning:	
			111130711	Neurophysiology:	
				Clinical Technology Practice III	40
			BME30CT	Work-Integrated Learning:	-10
			DIVILLOCT	Neurophysiology:	40
				Biomedical Apparatus III	-10
			CNO30BT	Work-Integrated Learning:	
			CIVOSOBI	Neurophysiology:	40
				Clinical Practice III	40
			TPU30AT	Work-Integrated Learning:	
			11 030A1	Pulmonology:	40
				Clinical Technology Practice III	70
			BMP30CT	Work-Integrated Learning:	
			DIVIT SUC I	Pulmonology;	40
				Biomedical Apparatus III	40
			CNP30BT	Work-Integrated Learning:	
			CINE SUD I	Pulmonology:	40
				Clinical Practice III	40
i				Chinical Practice III	

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL	CREDITS
				OFFERINGS	
			TPK30AT	Work-Integrated Learning:	
				Critical Care:	40
				Clinical Technology Practice III	
			BAM30BT	Work-Integrated Learning:	
				Critical Care:	40
				Biomedical Apparatus III	
			KPK30BT	Work-Integrated Learning:	
				Critical Care:	40
				Clinical Practice III	
			TPT30AT	Work-Integrated Learning:	
				Reproductive Biology:	40
				Clinical Technology Practice III	
			BIR30BT	Work-Integrated Learning:	
				Reproductive Biology:	40
				Biomedical Apparatus III	
			KPR30BT	Work-Integrated Learning:	
				Reproductive Biology:	40
				Clinical Practice III	
			PTP30AT	Work-Integrated Learning:	
				Perfusion:	40
				Clinical Technology Practice III	
			PBA30BT	Work-Integrated Learning:	
				Perfusion:	40
				Biomedical Apparatus III	
			CNF30BT	Work-Integrated Learning:	
				Perfusion:	40
				Clinical Practice III	
				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 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.

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

Admission requirements

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Instructional offerings	Prerequisite 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

This learning programme will be offered in Bloemfontein.

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

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	30
				instructional offering)	
LCS5001				Academic Literacy and	12
				Communication Studies	
NMC00FP				Numeracy (module	6
				instructional offering)	
DGL00FP				Digital Literacy (module	6
				instructional offering)	
ADC5022				Advanced Digital Literacy	6
PIM5011				Personal Information	0
				Management	
	1	Main	instructional		I
	BSN10AT			Basic Science I	
	1	Modul	e instructiona	l offerings	I
	PSS11AT	112000		Physics	12
	CHS12AT			Chemistry	12
		Main	instructional		
	MCR10AT	1,1411		Medical Rescue I	
	1,101110111	Modul	e instructiona		
	ROP12AT			Rope Rescue I	12
	EXT11AT			Extrication I	12
	RYS12AT			Rescue Systems I	6
	1(1512/11	Main	instructional		J
	MMC10AT	IVICIII		Emergency Medical Care I:	
	WINICIONI			Work-Integrated Learning	
	I	Modul	e instructiona		
	EPP11AT	Iviouui		Ethics & Professional Practice I	6
	CLR11AT			Cardiopulmonary Resuscitation	6
	ECP10AT			Emergency Care of the Adult &	U
	ECF IUA1			Paediatric Patient	12
	OBN12AT			Obstetrics & Neonatology I	6
	CSC12AT			Emergency Care in Special	U
	CSC12A1			Circumstances	6
	1	Main instru	ctional offeri		U
	MST10AT	wiam msu'u	CHUHAI UHETH	Emergency Service	
	MISTIUAT			Technology I	
				1 celliology 1	

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL	CREDITS
				OFFERINGS	
		Module instru	ictional offeri		
	TOC11AT			Theory of Communication	6
	BAT11AT			Basic Ambulance Technology	12
	BIH10AT			Basic Information Technology	6
			ory instructio		
		PHY20AT		Physiology II	24
		ESC10AT		Emergency Service	12
		DEG14.5		Communication I	
		PEC12AT		Psycho-Psychiatric Emergency	6
		D) (C10 A F		Care I	2.4
		PMC10AT	•	Pharmacology I	24
			instructional		
		MCR20AT		Medical Rescue II	
	I	ii.	e instructiona		
		ROP21AT		Rope Rescue II	12
		EXT22AT		Extrication II	12
		RYS22AT		Rescue Systems II	6
			instructional		
		MMC20AT		Emergency Medical Care II:	
				Work-Integrated Learning	
	I		e instructiona		
		MDE20AT		Medical Emergencies	12
		TRE20AT		Trauma Emergencies	12
	I	Compuls	ory instructio	<u> </u>	
			GPH10AT	General Pathology I	24
			ESA10AT	Emergency Service	12
				Administration I	
	I	Main	instructional		
			MCR30AT	Medical Rescue III	
	I	Modul	e instructiona		
			ROP31AT	Rope Rescue III	12
			EXT32AT	Extrication III	12
		1	RYS32AT	Rescue Systems III	6
	I	Main	instructional	<u> </u>	
			MMC30AT	Emergency Medical Care III:	
				Work-Integrated Learning	
	1	Modul	e instructiona		_
			EPP21AT	Ethics & Professional Practice II	6
			CSP31AT	Cardiovascular Support in the	12
			1400045	Critical Patient	10
			IAP30AT	Emergency Care of the III &	12
				Injured Adult & Paediatric	
			ODNICOAT	Patient S. Namedalana H.	10
			OBN22AT	Obstetrics & Neonatology II	12
			TIP32AT	Transportation of the Ill &	6
		1		Injured Patient	111
				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.

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

Admission requirements

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 check-up 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 (a minimum mark of 60%). Candidates must also successfully complete the selection process - which includes a fitness test, medical check-up 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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Instructional offerings	Prerequisite 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

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	30
				instructional offering)	
LCS5001				Academic Literacy and	12
				Communication Studies	
NMC00FP				Numeracy (module	6
				instructional offering)	
DGL00FP				Digital Literacy (module	6
				instructional offering)	
ADC5022				Advanced Digital Literacy	6
PIM5011				Personal Information	0
				Management	
	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	24
				& Water II	
		VVH20AT		Food & Meat Hygiene II	24

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL	CREDITS
				OFFERINGS	
			BGV30AT	Occupational Health &	24
				Safety III	
			FBS30AT	Management Practice III	30
			EPI30AT	Epidemiology III	24
			OLG30AT	Environmental Pollution: Air &	24
				Noise III	
			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 1979/08/24.

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. Level-III 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.

On 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

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/or 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, **or** a minimum mark of 50% in Mathematical Literacy is required.

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.

Optional instructional offerings

All instructional offerings are compulsory.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister 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

Prerequisite instructional offerings

Microbiology I Environmental Planning I Microbiology I Physics & Chemistry I **or** Anatomy & Physiology

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

Waste & Water II Epidemiology III Epidemiology II

Occupational Health & Safety III Occupational Health & Safety II Management Practice III 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 2014.

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

2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
ANT10AT			Anatomy I	24
FSG10BT			Physiology I	12
RAD10AT			Radiographic Practice I	24
KLR10AT			Work-Integrated Learning: Clinical	
			Radiography I	24
SWT10AT			Radiation Science I	0
BRE10AT			Image Recording	12
FSC10AT			Physics & Chemistry	14
PSG10AT			Psychodynamics of Patient Management I	12
PTO10AT			Radiographic Pathology I	12
	RAD20AT		Radiographic Practice II (D)	24
	KLD20AT		Work-Integrated Learning:	
			Clinical Radiography II (D)	24
	SWT20AT		Radiation Science II	0
	BRE20AT		Image Recording	24
	STF20AT		Radiation Physics	24
	PTO20AT		Radiographic Pathology II	24
		Diagnostic		
		RAD30AT	Radiographic Practice III (D)	36
		KLD30AT	Work-Integrated Learning: Clinical	
			Radiography III (D)	48
		SWD30AT	Radiation Science III (D)	24
		RAB30AT	Radiographic	12
			Management III (D)	
			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 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.

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

Admission requirements

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Instructional offerings	Prerequisite 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:396NQF LEVEL:6DURATION OF LEARNING PROGRAMME:4 years

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	30
00110011				instructional offering)	
LCS5001				Academic Literacy and	12
				Communication Studies	
NMC00FP				Numeracy (module	6
				instructional offering)	
DGL00FP				Digital Literacy (module	6
				instructional offering)	
ADC5022				Advanced Digital Literacy	6
PIM5011				Personal Information	0
				Management	_
	SOM10AT			Soma Techniques I (main	0
				instructional offering)	
	SMT10AT			Soma Techniques I (Theory)	24
				(module instructional	
				offering)	
	SMP10AT			Soma Techniques I (Practical)	24
				(module instructional	
				offering)	
	EST10BT			Aesthetics I	12
	BTK10AT			Biotics I	6
	WSP10AT			Science I (Theory and Practical)	12
	VDN10AT			Nutrition I	6
		SOM20AT		Soma Techniques II (main	0
				instructional offering)	
		SMT20AT		Soma Techniques II (Theory)	24
				(module instructional	
				offering)	
		SMP20AT		Soma Techniques II (Practical)	36
				(module instructional	
				offering)	
		BTK20AT		Biotics II	6
		WSP20AT		Science II (Theory and	12
				Practical)	
		AFG20BT		Anatomy & Physiology II	18
		SAK10BB		Business Practice I	6
		SSK10AT		Socio-Psychology I	12
		VDN20AT		Nutrition II	6

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL	CREDITS
				OFFERINGS	
			SOM30AT	Soma Techniques III (main	0
				instructional offering)	
			SMT30AT	Soma Techniques III (Theory)	24
				(module instructional	
				offering)	
			SMP30AT	Soma Techniques III (Practical)	36
				(module instructional	
				offering)	
			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(s). 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 as from 2013, 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 A to E (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 reregister for SMP20AT in its entirety and 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.

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

Admission requirements

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Instructional offerings

Prerequisite instructional offerings

Soma Techniques II Soma Techniques II Soma Techniques II

Biotics II
Biotics III
Science II
Science I

Anatomy & Physiology II Anatomy & Physiology

Nutrition IINutrition INutrition IIINutrition II

Socio-Psychology II

Business Practice II

Work-Integrated Learning: Soma Techniques Project 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

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	
PRE2B		English Proficiency	6

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
APM	20AT	Agricultural Production Management II	62
APT	20AT	Agricultural Production Techniques II	62
		Total:	128

3 RD YEAR	YEAR INSTRUCTIONAL OFFERINGS			
	Compulsory instructional offerings			
AMN30AT	Agricultural Management III	24		
ENG10AT	Agricultural Engineering I	24		
PBL10AT	Human Resource 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

On 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 prerequisite.

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 marked with an asterisk (*).

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister 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

Prerequisite 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			English Proficiency and	
PRE2B			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
		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.

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

Admission requirements

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:

Physical Science (Rating 4), Life Science (Rating 4), Mathematics (Rating 3) and English (Rating 3) as minimum requirements.

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister 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

Chemical Pathology II (Semester 2)

Chemical Pathology III

Blood Transfusion Technology

Prerequisite instructional offerings

Anatomy & Physiology I (Semester 1)

Anatomy & Physiology I (Semester 1)

Chemistry I

Biochemistry II, Calculations and

Statistics

Immunology II Microbiology I

Microbiology II

Chemical Pathology I (Semester 1) Chemical Pathology II (Semester 2)

Immunology II

Haematology II Blood Transfusion Technology

Haematology III Haematology II

Cellular Pathology I (Semester 1)

Cellular Pathology II (Semester 2)

Cellular Pathology II (Semester 2)

Cellular Pathology II (Semester 1)

Cellular Pathology III (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

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

3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS			
Any ONE of	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 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 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 III	40			
TPU30AT	Work-Integrated Learning: Pulmonology: Clinical Technology III	40			
BMP30CT	Work-Integrated Learning: Pulmonology: Biomedical Apparatus III	40			

3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Any ONE of	the seven options below	
CNP30BT	Work-Integrated Learning: Pulmonology 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 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 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 III	40
	Total:	360

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 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.

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

Admission requirements

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Anatomy & Physiology II Organ & System Pathophysiology II Pharmacology II Pharmacology II Anatomy I Physiology I Anatomy I Physiology I Anatomy I Physiology I Physiology I Physiology I Physiology I

16.4 NATIONAL DIPLOMA: EMERGENCY MEDICAL CARE THNDMC

This learning programme will be offered in Bloemfontein.

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

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS	
	Compulsory instructional offering				
PRE1A			English Proficiency and		
PRE2B			English Proficiency	9	
		Mai	n instructional offering		
ANP10CT			Anatomy & Physiology	24	
		Mai	n instructional offering		
BSN10AT			Basic Science I		
		Modu	le instructional offerings		
PSS11AT			Physics	12	
CHS12AT			Chemistry	12	
		Mai	n instructional offering		
MCR10AT			Medical Rescue I		
	'	Modu	le 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		

1 ST YEAR	2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
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	Mai	in 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
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	141411	Medical Rescue II	
	WICKZOITI	Modu	le instructional offerings	
	ROP21AT	Modu	Rope Rescue II	12
	EXT22AT		Extrication II	12
	RYS22AT		Rescue Systems II	6
	KISZZAI	Mair	n instructional offering	O
MMC20AT * Emergency Medical Care II:				
	WIWICZUAT		Work-Integrated Learning	
Module instructional offerings				
	MDE20AT	Modu	Ü	12
	TRE20AT		Medical Emergencies	12
TRE20AT Trauma Emergencies 12 Compulsory instructional offerings				
	I	_	•	24
		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 &	12
			Paediatric Patient	
		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.

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

Admission requirements

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 **two** of the following subjects is required: Mathematics and Physical Science, or Biology/Physiology. Candidates must also successfully complete the selection process - which includes a fitness test, medical check-up and psychometric assessment - for admission to the programme.

For candidates who completed the 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: Mathematics or Mathematical Literacy (60%) and Physical Science or Life Science. Candidates must also successfully complete the selection process - which includes a fitness test, medical check-up and psychometric 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.

PREREQUISITES

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 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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Instructional offerings	Prerequisite 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 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			English Proficiency and	
PRE2B			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 1979/08/24.

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. Level-III 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.

On 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 discontinue 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

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/or 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, **or** a minimum mark of 50% in Mathematical Literacy is required.

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 Extended Curriculum Programme (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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Instructional offerings	Prerequisite instructional offerings
Food & Meat Hygiene II	Microbiology I
Environmental Pollution: Waste & Water II	Environmental Planning I
Epidemiology II	Microbiology I
Occupational Health & Safety II	Physics & Chemistry I or
	Anatomy & Physiology I
Community Development II	Community Development I
Food & Meat Hygiene III	Food & Meat Hygiene II
Environmental Pollution: Air & Noise III	Environmental Pollution:
	Waste & Water II
Epidemiology III	Epidemiology II
Occupational Health & Safety III	Occupational Health & Safety II
Management Practice III	Community Development II

16.6 NATIONAL DIPLOMA: FIRE TECHNOLOGY THNDFU

(This programme will be discontinued at the end of the first semester 2015.)

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		
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

2 ND 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

3 RD 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 be discontinued at the end of the first semester 2015. Thus no entrants may enter the programme anymore.

*One year of Work-Integrated Learning, presented by or acknowledged by the Mangaung Fire Department, is a prerequisite for the completion of this learning programme.

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

Admission requirements

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister 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 2014.

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

Instructional Offerings

2 ND YEAR	3 RD YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
	Specific		
	Discipline		
RAD20AT		Radiographic Practice II (D)	24
RAT20AT		Radiographic Practice II (T)	36
KLD20AT		Clinical Radiographic Practice II (D):	24
		Work-Integrated Learning	
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):	48
		Work-Integrated Learning	
	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):	48
		Work-Integrated Learning	
	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. The 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.

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

Admission requirements

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Inctmintional	OTTORINGO
Instructional	OHELINS

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)

Prerequisite 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	0
			offering)	
SMT10AT			Soma Techniques I (Theory) (module	24
			instructional offering)	
SMP10AT			Soma Techniques I (Practical) (module	24
			instructional offering)	
SMR12AT			Computer Skills I (module instructional	6
			offering)	
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			English Proficiency and	
PRE2B			English Proficiency	9
	SOM20AT		Soma Techniques II (main instructional	0
			offering)	
	SMT20AT		Soma Techniques II (Theory) (module	24
			instructional offering)	
	SMP20AT		Soma Techniques II (Practical) (module	36
			instructional offering)	
	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	0
			offering)	
		SMT30AT	Soma Techniques III (Theory) (module	24
			instructional offering)	
		SMP30AT	Soma Techniques III (Practical) (module	36
			instructional offering)	
		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	30
		50120111	Project II	
	l	l	Total:	375

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 as from 2014, 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 A to E (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 reregister 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.

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

Admission requirements

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.

PREREQUISITES

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 prerequisite for the learning programme. Failing instructional offering A means that the student must reregister for instructional offering A in a subsequent semester.

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

Instructional offerings

Prerequisite instructional offerings

Soma Techniques II Soma Techniques II Soma Techniques II

Biotics II Biotics II Biotics II Science II Science I

Anatomy & Physiology II

Anatomy & Physiology I

National Anatomy & Physiology I

Nutrition II Nutrition II Nutrition II

Socio-Psychology II

Business Practice II

Work-Integrated Learning: Soma Techniques Project II

Soma Techniques I & II

17. NATIONAL CERTIFICATE

17.1 NATIONAL CERTIFICATE: DENTAL ASSISTING THNSDA

This learning programme is being replaced by the Higher Certificate: Dental Assisting.

SAQA CREDITS: 141 NQF LEVEL: 5

DURATION OF LEARNING PROGRAMME: 2 years part-time

Instructional Offerings

2 ND YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
TAP10BT	Dental Assisting: Practical I	24
TAT10BT	Dental Assisting: Theory I	24
THE10ZT	Dental Practice: Work-Integrated Learning	24
	Total:	141

This programme can be presented on a full-time basis over a period of one year or on a parttime 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.

On successful completion of this qualification, a National Certificate will be awarded during the official graduation ceremony of the CUT.

Admission requirements

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).
- 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 reapply 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. HIGHER CERTIFICATE

18.1 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

1 ST YEAR	INSTRUCTIONAL OFFERINGS		
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 learning programme will be offered in Bloemfontein.

SAQA CREDITS: 141 NQF LEVEL: 5

DURATION OF LEARNING PROGRAMME: 2 years part-time

Instructional Offerings

1 ST YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
TPB5000	Dental Practice Management I	24
MAP5000	Oral Anatomy and Pathology I	24
LCS5001	Academic Literacy and Communication Studies	9
PIM5011	Personal Information Management	

1 ST YEAR	T YEAR INSTRUCTIONAL OFFERINGS			
TAT5000	Dental Assisting: Theory I	24		
TAP5000	Dental Assisting: Practical I	24		
THE5011	Dental Practice: Work-Integrated Learning	36		
	Total:	141		

This programme can be presented on a full-time basis over a period of one year or on a parttime 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.

On successful completion of this qualification, a National Certificate will be awarded during the official graduation ceremony of the CUT.

Admission requirements

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).
- 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 reapply 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.

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	H YEAR INSTRUCTIONAL OFFERINGS				
	Compulsory instructional offerings				
FIN40AT	Financial Management: Agriculture IV	27			
STG40AT	STG40AT Strategic Management: Agriculture IV				
LEA20AT Leadership Development II					
	Optional instructional offerings				
ANI40AT	*Animal Production IV	27			
PLT40AT	PLT40AT *Plant Production IV				
	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.

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

Admission requirements

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

Optional instructional offerings

Instructional offerings marked with an asterisk (*).

PREREQUISITES

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

Instructional offerings

Prerequisite instructional offerings

Financial Management: Agriculture IV Agricultural Management III Strategic Management: Agriculture IV Agricultural Management III

Animal Production IV Animal Production III
Plant Production IV Plant Production III

Leadership Development II 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

4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
LMN21AT	Laboratory Management or	
LMN22AT	Laboratory Management	12
NMT21BT	Research Methods & Techniques and	12
NMT22BT	Research Methods & Techniques	12
IPT40AT	Integrated Pathophysiology IV	24
BCH40AT	Biochemistry IV	24
PJT40AT	Project	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 level-IV instructional offerings as indicated. A compulsory research project must preferably be completed during the year in which ONE of the level-IV instructional offerings is selected. If this is not feasible, the student must complete the research project within three years after completing the level-IV 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.

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

Admission requirements

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

PREREQUISITES

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

Instructional offerings

Prerequisite instructional offerings

Compulsory Research Project or simultaneously with Research Methods & Techniques

Research Methods & Techniques

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

4 TH YEAR	INSTRUCTIONAL OFFERINGS				
Compulsory instructional offerings					
BGS11AT	Principles of Management I or				
BGS12AT	Principles of Management I	12			
NMT21CT	Research Methodology: Natural Sciences and	12			
NMT22CT	Research Methodology: Natural Sciences	12			
	Optional instructional offerings				
One	of the following instructional offerings corresponding with the third-year ch	oice:			
KAR40AT	T Work-Integrated Learning: Cardiology IV (main instructional offering) 84				
KDP40AT	Cardiology IV Project (module instructional offering)				
KDT40AT	Cardiology IV Theory/Practical (module instructional offering)				
KRI40AT	Work-Integrated Learning: Critical Care IV (main instructional offering)				
KIT40AT	Critical Care IV Project (module instructional offering)	84			
KIP40AT	Critical Care IV Theory/Practical (module instructional offering)	84			
NEF40AT	Work-Integrated Learning: Nephrology IV (main instructional offering)	84			
NFP40AT	Nephrology IV Project (module instructional offering)	84			
NFT40AT	Nephrology IV Theory/Practical (module instructional offering)	84			
NEU40AT	Work-Integrated Learning: Neurophysiology IV (main instructional offering)	84			

4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
NGP40AT	Neurophysiology IV Project (main instructional offering)	84
NGT40AT	Neurophysiology IV Theory/Practical (main instructional offering)	84
PER40AT	Work-Integrated Learning: Perfusion IV (main instructional offering)	84
RFP40AT	Perfusion IV Project (module instructional offering)	84
RFT40AT	Perfusion IV Theory/Practical (module instructional offering)	84
REP40AT	Work-Integrated Learning: Reproductive Biology IV (main instructional	84
	offering)	
RBP40AT	Reproductive Biology IV Project (module instructional offering)	84
RBT40AT	Reproductive Biology IV Theory/Practical (module instructional offering)	84
PUL40AT	Work-Integrated Learning: Pulmonology IV (main instructional offering)	84
PYP40AT	Pulmonology IV Project (module instructional offering)	84
PYT40AT	Pulmonology IV Theory/Practical (module instructional offering)	84
	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 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 level-IV 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 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.

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

Admission requirements

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

PREREQUISITES

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

Instructional offering	Prerequisite instructional offering
Level-IV instructional offerings	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

4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS		
Compulsory instructional offerings				
NMD10AT	NMD10AT Research Methodology I			
FBS40AT	Management Practice IV	30		
	Optional instructional offerings			
	Plus any two of the following:			
VDH40BT	VDH40BT Food Hygiene IV			
BGV40AT	V40AT Occupational Health & Safety IV			
WAT40AT	WAT40AT Water Quality Management IV			
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 1979/08/24.

Instructional offerings at all levels are assessed internally by CUT. Level-IV 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.

On 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

National Diploma: Environmental Health, or equivalent qualification with a minimum average mark of 55% for the qualification, with the appropriate instructional offerings.

PREREQUISITES

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	4 TH YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Diagnostic	Therapy		
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.

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

Admission requirements

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

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 level-IV 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 level-IV 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.

PREREQUISITES

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

4 TH 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.

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

Admission requirements

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

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

PREREQUISITES

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

Instructional offerings

Soma Techniques III

Prerequisite instructional offerings

Soma Techniques IV Biotics IV Nutrition IV

Biotics III Nutrition III

Business Practice III

Business Practice II

20. BACHELOR DEGREE: EXTENDED CURRICULUM PROGRAMME

20.1 BACHELOR OF RADIOGRAPHY IN DIAGNOSTICS (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	12
			(module instructional offering)	
NMR5011			Numeracy(module instructional offering)	6
DLC5001			Basic Digital Literacy (module instructional	6
			offering)	
ADC5022			Advanced Digital Literacy (instructional	6
			offering)	
PIM5011			Personal Information Management	0
	ANA5001		Anatomy I	24
	PCM5022		Patient Care Management I	12
	PTH5022		Pathology I	12
	FSG5000		Physiology I	24
	STF5000		Radiation Physics I	24
	RDP5000		Radiographic Procedures I	12
	RCP5022		Research Principles I	12
		ANR6000	Anatomy & Pattern Recognition II	12
		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		Sectional Anatomy & Pattern Recognition III	12

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	Sectional Anatomy & Pattern Recognition IV	6
		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 prerequisites 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.

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

Admission requirements

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:

In addition to the general admission requirements, a minimum of level 4 for Life Science, Physical Science and Mathematics is required.

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

All instructional offerings are compulsory.

PREREQUISITES

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 & Pattern Recognition 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
Radiation Physics IV
Radiographic Practice II
Radiographic Practice III
Radiographic Practice IV
Radiographic Procedures II
Radiographic Procedures III
Radiographic Procedures IV
Research Principles II

Prerequisite instructional offerings

Anatomy I

Imaging Technology II Physiology I, 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 Procedures I Radiographic Procedures I Radiographic Procedures II

Pathology III, Radiographic Procedures III

Research Principles I

Sectional Anatomy & Pattern Recognition III	Anatomy & Pattern Recognition II
Sectional Anatomy & Pattern Recognition IV	Sectional Anatomy &
	Pattern Recognition III
Professional Practice of Radiography IV	

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	12
Lebsoor				Communication Studies	12
ADC5022				Advanced Digital Literacy	6
ANA5001				Anatomy I	24
DLC5011				Basic Digital Literacy	6
PCM5022				Patient Care Management I	12
PTH5022				Pathology I	12
FSG5000				Physiology I	24
PIM5011				Personal Information	0
				Management	
STF5000				Radiation Physics I	24
RDP5000				Radiographic Procedures I	12
RCP5022				Research Principles I	12
	ANR6000			Anatomy & Pattern	12
				Recognition II	
	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		Sectional Anatomy & Pattern	12
				Recognition III	

1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	INSTRUCTIONAL	CREDITS
				OFFERINGS	
			PCM8000	Patient Care Management IV	6
			PRF8000	Professional Practice of	42
				Radiography IV	
			STF8000	Radiation Physics IV	6
			RAD8000	Radiographic Practice IV	12
			RDP8000	Radiographic Procedures IV	30
			RCP8000	Research Principles IV	6
			SPR8000	Sectional Anatomy & Pattern	6
				Recognition IV	
				Total:	480

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 prerequisites 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.

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

Admission requirements

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:

In addition to the general admission requirements, a minimum of level 4 for Life Science, Physical Science and 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.

All instructional offerings are compulsory.

PREREQUISITES

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 I

Anatomy & Pattern Recognition 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

Sectional Anatomy & Pattern Recognition III Sectional Anatomy & Pattern Recognition IV

Professional Practice of Radiography IV

Imaging Technology II Physiology I, Pathology I

Pathology II

Patient Care & Management I Patient Care & Management II Patient Care & Management III

Prerequisite instructional offerings

Radiation Physics I Radiation Physics II Radiation Physics III Radiographic Procedures I Radiographic Practice II Radiographic Procedures I Radiographic Procedures I Radiographic Procedures II

Pathology III, Radiographic Procedures III

Research Principles I

Anatomy & Pattern Recognition II

Sectional Anatomy & Pattern Recognition III

22. MAGISTER TECHNOLOGIAE DEGREE

These learning programmes will be offered in Bloemfontein.

SAQA CREDITS: 120 NQF LEVEL: 9

PROGRAMME	MAGISTER	MAIN	INSTRUCTIONAL OFFERINGS
CODE	TECHNOLOGIAE	CODE	
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 on completion of an approved research project and upon submission of a dissertation.

Prospective students may be subject to a selection process.

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

Admission requirements

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	DOCTOR	MAIN	INSTRUCTIONAL OFFERINGS
CODE	TECHNOLOGIAE	CODE	
ILDTUL	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.

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

Admission requirements

Magister Technologiae Degree or equivalent qualification.

24. POSTDOCTORAL STUDIES

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